Curriculum Vitae

Date: May 3, 2026

Wafik S. El-Deiry, MD, PhD, FACP

Current Position:

Founding Director, Legorreta Cancer Center at Brown University

Associate Dean for Oncologic Sciences, Warren Alpert Medical School, Brown University

American Cancer Society Professor

Mencoff Family University Professor of Medical Science, Brown University

Director, Joint Program in Cancer Biology, Brown Institute for Translational Science and Brown University Health System, Providence, Rhode Island

Tenured Professor of Pathology and Laboratory Medicine, Department of Pathology and Laboratory Medicine, Warren Alpert Medical School, Brown University

Attending Physician, Hematology/Oncology, Brown University Health Cancer Institute, Rhode Island Hospital

Chair, Worldwide Innovation Network (WIN) Consortium in Personalized Cancer Medicine

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Bibliography on PubMed:
https://pubmed.ncbi.nlm.nih.gov/?term=el-Deiry+W%5BAuthor%5D&sort=date

Videos (Interviews, Lectures, Commentaries):

April 21, 2015, Dr. El-Deiry explains interest in precision medicine at #AACR15
https://www.youtube.com/watch?v=OSFFf1Zi8wA

April 21, 2015, Dr. El-Deiry explains importance of explaining cancer research at #AACR15
https://www.youtube.com/watch?v=wkLTSFri37s

April 21, 2015, Dr. El-Deiry explains how gene mutations lead to cancer at #AACR15
https://www.youtube.com/watch?v=DIB9Ha-Xp4Q

August 20, 2015, Philadelphia 6ABC interview about President Carter's Diagnosis:
https://www.youtube.com/watch?v=3Cg2k8XOvJk

May 20, 2017, Dr. El-Deiry speaks at 2017 American Cancer Society Relay-for Life event in Philadelphia
https://www.youtube.com/watch?v=agb4p_UhhVs

March 1, 2018, Dr. El-Deiry on CBS news "Eating Nuts Improves Survival Rate For Colon Cancer CRC"
https://www.youtube.com/watch?v=5uohg5Dv4l0

May 30, 2019, GOLOCALProv TV interview: https://www.golocalprov.com/news/latest-in-advances-in-cancer-research-warren-alpert-medical-school-at-brown

February 26, 2020, Dr. El-Deiry comments on the future of cancer treatment
https://www.youtube.com/watch?v=epP039-VWHE

March 3, 2020, Dr. El-Deiry testifies at Rhode Island Statehouse in support of colon cancer screening
https://www.youtube.com/watch?v=kxiwpQ89NTY

March 6, 2020, Dr. El-Deiry testifies at RI Senate in support of Senate Bill 2317 for screening colonoscopies
https://www.youtube.com/watch?v=FI83339uqDw

April 8, 2021, Invited Brown University Provost Richard Locke's By Faculty for Faculty Lecture series:
https://www.youtube.com/watch?v=aOOtQUr33bE

June 29, 2021, interview about new breast cancer research from EL-DEIRY LAB:
https://www.youtube.com/watch?v=nyw1AQl72O4&t=1s

December 2, 2021, Faculty Seminar at Brown: https://www.youtube.com/watch?v=rHpptGWpbcU

April 5, 2022, Dr. El-Deiry's Testimony Rhode Island 2022 House Bill 8008 intro by Rep Mia Ackerman
https://www.youtube.com/watch?v=Dt-MWIOA-zc

Special Interview with Prof. Wafik S. El-Deiry (Cancer Drug Resistance) 12-22-2022
https://cdrjournal.com/announcement/view/517 (no longer accessible)

January 4, 2023, Opening lecture, Inaugural Cancer Prevention & Survivorship Elective, Brown Univ.
https://www.youtube.com/watch?v=mtUCDgQQYtI

January 5, 2023, Liquid biopsy in early cancer detection, therapy and disease monitoring
https://www.youtube.com/watch?v=1N9TDxcBv6I

January 6, 2023, Comments by Dr. El-Deiry about Rhode Island's Legoretta Cancer Center at Brown Univ.
https://www.youtube.com/watch?v=oSnoosD4RgQ

January 10, 2023, Public Service Awards 2022 RI Sen Maryellen Goodwin, Rep Mia Ackerman
https://www.youtube.com/watch?v=h938UdJmyoE

January 16, 2023, Partnering with the State of Rhode Island to build a world-class cancer center
https://www.youtube.com/watch?v=8JQN4I6jTt8&t=4s

February 16, 2023, Cancer Rates in Rhode Island NBC10 interview with Dr. El-Deiry
https://youtu.be/f1a7pCcng1k

February 16, 2024, Dr. El-Deiry's Testimony Rhode Island 2024 House Bill 7301 intro by Rep Mia Ackerman

https://www.youtube.com/watch?v=xCDoyH06Ato

March 1, 2024, WIN Symposium, Abu Dhabi Razelle Kurzrock Wafik El-Deiry Opening Remarks
https://www.youtube.com/watch?v=b3YHJI5ohvQ

May 8, 2024, Dr. El-Deiry introduces p53-Therapeutics, Inc., a biopharmaceutical company he founded
https://www.youtube.com/watch?v=ffhh9coyYTk

June 27, 2024, WIN Consortium at Dava Oncology's 3rd Global Thoracic Malignancies Summit
https://www.youtube.com/watch?v=t51qK5niODM

June 28, 2024, 3rd Global Thoracic Malignancies Summit on SCLC therapeutics & XRT pneumonitis
https://www.youtube.com/watch?v=B0Vo6i7QeKA

May 30, 2025, El-Deiry as panelist on STAT-at-ASCO Panel: The Future of the NCI and FDA
https://www.youtube.com/watch?v=rXq3o08v080

July 1, 2025, El-Deiry's remarks at event honoring Johnny Joey Jones in NYC, UN Plaza venue
https://www.youtube.com/watch?v=zSyzBsh8Po0

September 19, 2025, ACIP Presentation on Safety Uncertainties of mRNA COVID Vaccines
https://www.youtube.com/watch?v=F7tD7dlb40U

October 23, 2025, Special Interview with Prof. Wafik S. El-Deiry (Cancer Drug Resistance)
https://www.oaepublish.com/interviews/cdr.409

November 17, 2025, Dr. El-Deiry announces launch of Legorreta Cancer Center Director's Podcast
https://www.youtube.com/watch?v=iHOaybv4Pfk

December 2, 2025, Dr. El-Deiry hosts Dr. Sobol for Legorreta Cancer Center's Director's Podcast
https://www.youtube.com/watch?v=u2DXhJ21UIE

December 10, 2025, Dr. El-Deiry hosts Dr. Rogers for Legorreta Cancer Center Director's Podcast
https://www.youtube.com/watch?v=2JiAhtkBgGI

January 28, 2025, Dr. El-Deiry's interview with Dr. Peter McCullough
https://www.youtube.com/watch?v=60BGIKDnLmE

February 4, 2026, Dr. El-Deiry, Chair, WIN Consortium in Precision Oncology speaks on World Cancer Day
https://www.youtube.com/watch?v=p7FRZMTPOnI

March 24, 2026, Dr. El-Deiry's introduction at Legorreta Cancer Center Translational Research Retreat
https://www.youtube.com/watch?v=GTxUbQYF8Dc

March 30, 2026, Dr. El-Deiry on Armstrong Williams show discussing cancer research and COVID
https://www.youtube.com/watch?v=qjw-F7SNRgE

April 18, 2026, Dr. El-Deiry's Keynote at Israel Cancer Association USA event, Mar-a-Lago, Florida
https://www.youtube.com/watch?v=pZJppjQfZ_I

April 28, 2026, Dr. El-Deiry's Remarks at Inaugural Caris POA Member Meeting, Brown University
https://www.youtube.com/watch?v=VwTPByJfeBQ

Brief Biography:
Wafik El-Deiry, MD, PhD, FACP, an American Cancer Society Professor, is Associate Dean for Oncologic Sciences at the Warren Alpert Medical School, Founding Director of the Legorreta Cancer Center, and Mencoff University Professor Endowed Chair in Medical Science at Brown University. He is the elected Chair of the international WIN Consortium in Precision Oncology (Dec 2023—present). Prior to 2019, he was Deputy Director for translational Research, Program Leader for Molecular Therapeutics, Professor of Oncology and William Wikoff Smith Chair in Cancer Research at Fox Chase Cancer Center (2014-2018), Rose Dunlap Division Chair, Professor of Medicine, Chief of Hematology-Oncology, Associate Director for Translational Research, Program Leader in Experimental Therapeutics and in 2014 Interim Director at Penn State Cancer Institute (2010-2014). Dr. El-Deiry joined University of Pennsylvania as Assistant Professor of Medicine and Genetics in 1994, was promoted to Associate Professor with tenure in 1999 and Professor of Medicine, Pharmacology & Genetics with tenure in 2005. He was an Investigator of the Howard Hughes Medical Institute from 1995-2004. He served as co-Leader of the Radiobiology and Imaging Program at the Abramson Cancer Center (2004-2010), Associate Director for Physician-Scientist Training in Hematology-Oncology (2007-2010), Chair of the Admissions Committee of the Cell Growth and Cancer Program (2004-2005), and Member of MD/PhD Program Admissions Committee (1999-2010) at University of Pennsylvania. He earned MD and PhD degrees at University of Miami (1981-1987) and completed internal medicine residency (1987-1990) at the Johns Hopkins Hospital and medical oncology fellowship (1990-1994) at the Johns Hopkins Oncology Center.

Dr. El-Deiry discovered p21(WAF1) as p53 target gene, cell cycle inhibitor, & tumor suppressor that explained the mammalian cell stress response. This was the most highly cited original work published in the journal *Cell* for over two decades. He discovered TRAIL receptor DR5 as p53 target, and ONC201/TIC10 as TRAIL pathway inducer, integrated stress response inducer and cancer therapeutic with efficacy in diffuse midline glioma and other tumors. The exact same original small molecule discovered in a chemical library screen designed by Dr. El-Deiry and performed in his laboratory at University of Pennsylvania in 2007, TIC10/ONC201 and later dordaviprone/modeyso, was the first ever approval by the US Food and Drug Administration on August 6, 2025, for recurrent H3K27M-mutated diffuse glioma. For the last 15 years Dr. El-Deiry has been investigating mechanisms and drug synergies with ONC201 and its analogues ONC206 and ONC212 first studied in his laboratory across tumor types. Various promising synergistic combinations have emerged and await translation as of March 2026. Dr. El-Deiry has been continuously funded by the US National Cancer Institute from 1998-2025 when his remaining major NCI R01 grant that supported his lab was terminated with remaining funds in year 12 and denied a second no cost extension despite the remaining funds with no reason given. He was a candidate for NCI Director in 2024-2025, advocated strongly for increased government funding of cancer research, served on ACIP COVID Immunization Work Group reporting to ACIP/CDC (2025-2026) and organized a Science Integrity and Public Trust national working group (2025-).

Dr. El-Deiry has well over 500 publications and edited 8 books. He has served on editorial boards including as Associate Editor for the Journal of Clinical Investigation from 2007-2010 and Editor-in-Chief of Cancer Biology & Therapy from 2001 to 2019. In 2026 he is the co-Editor-in-Chief of the journal Oncotarget and Associate Editor-in-Chief for the American Journal of Cancer Research. He has been active as an NCI and ACS grant reviewer, has served on ACS Council, lectures widely and is a highly cited researcher (H-index 134 in 2026 with over 115,000 citations in Google Scholar). He was named one of America's Top Oncologists by Consumer Res Council of America in 2008 & 2009. He is a member of the Interurban Clinical Club started by Sir William Osler in 1905 (President, 2013-2014), American Society of Clinical Investigation (ASCI; 1998-) and Association of American Physicians (AAP; 2008-). He organized international meetings, won the 2009 Kuwait International Prize in Applied Sciences and was recognized in 2026 with an international Lifetime Achievement Award in Precision Oncology in Mumbai, India. He founded Oncoceutics in 2004 (acquired by Chimerix in 2021 and Chimerix was acquired by Jazz Pharmaceuticals in 2025), p53-Therapeutics, SMURF-Therapeutics, and Resurrect Therapeutics. He was elected as a member of the Johns Hopkins University Society of Scholars in 2014. He received the inventor of the year award from Brown University in 2022, 2023 and 2024 and was elected as a Senior Member of the National Academy of Inventors in 2024 in recognition of his 19 issued patents at that time. He served as a Member of the Faculty Executive Committee at Brown University from 2021-2024. He is a practicing physician-scientist oncologist specializing in colorectal cancer treatment and precision oncology. He was named a Top Doctor in RI & PA in 2023.

Curriculum Vitae Date: May 3, 2026

Wafik S. El-Deiry, MD, PhD, FACP

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Barrington, RI 02806

Permanent Address: 793 Darby Paoli Road
Bryn Mawr, PA 19010

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Academic Office: Department of Pathology and Laboratory Medicine
Brown Alpert Medical School, Brown University
70 Ship Street, Providence, Rhode Island 02903

Clinical Office: Hematology-Oncology Division, Department of Medicine
George Bldg Rm 302 (Office Suites of the Hematology/Oncology Division Director)
Lifespan Cancer Institute, Rhode Island Hospital
593 Eddy Street, Providence, Rhode Island 02903

Email Address: wafik.eldeiry@gmail.com; wafik@brown.edu

H-index: 134
Citations: 116,655
May 3, 2026
Google Scholar

Date of Birth: January 23, 1961

Marital Status: Married, Evelyn; 4 children: James 24, John 22, Jennifer 22 (disabled), Julie 21

Education:

8/78-5/81	B.S.	University of Miami (Chemistry)
6/81-6/87	M.D.	University of Miami School of Medicine
6/81-6/87	Ph.D.	University of Miami School of Medicine (Biochemistry)

Postgraduate Training and Fellowship Appointments:

7/87-6/88	Osler Intern, Department of Medicine, The Johns Hopkins Hospital, Baltimore, Maryland
7/88-6/90	Junior and Senior Assistant Resident in Medicine, The Johns Hopkins Hospital, Baltimore, Maryland
7/90-6/94	Senior Clinical Fellow in Medical Oncology, The Johns Hopkins Oncology Center, Baltimore, Maryland
7/91-6/94	Postdoctoral Fellow (Laboratory of Dr. Bert Vogelstein), The Johns Hopkins Oncology Center, Baltimore, Maryland

Military Service: None

Faculty Appointments:

7/94-6/99	Assistant Professor of Medicine (Hem/Onc), U. Penn
1/95-12/97	Assistant Investigator, Howard Hughes Medical Institute
6/95-6/99	Assistant Professor of Genetics (Secondary Appointment), U. Penn
1/98-8/04	Assistant Investigator, Howard Hughes Medical Institute
2/99-6/99	Assistant Prof. of Pharmacology (Secondary Appointment), U. Penn
7/99-6/05	Associate Professor of Medicine (with Tenure), Department of Medicine, Hematology/Oncology Division, Univ. of Pennsylvania

7/99-6/05	Associate Professor of Genetics (Secondary Appointment)
7/99-6/05	Associate Professor of Pharmacology (Secondary Appointment)
8/04-6/05	Adjunct Associate Professor, Wistar Institute
12/04-2/10	Co-Leader, Radiobiology & Imaging Program, Abramson Cancer Center
7/05-2/10	Professor of Medicine (Hematology/Oncology), Genetics, and Pharmacology, University of Pennsylvania School of Medicine
7/05-2/10	Adjunct Professor, Wistar Institute
2/07-2/10	Associate Director for Physician-Scientist Training, Hematology/Oncology Division, University of Pennsylvania School of Medicine
8/13-2/14	Interim Director, Penn State Hershey Cancer Institute
1/09-	American Cancer Society Research Professor (Title held for life)
3/10-9/14	Professor of Medicine (Hematology Oncology), Penn State University
3/10-9/14	Division Chief, Hematology/Oncology, Department of Medicine, Penn State
3/10-9/14	Rose Dunlap Division Chair in Hematology/Oncology, Penn State
5/10-6/13	Adjunct Professor of Medicine, Univ. of Pennsylvania
5/10-10/17	Adjunct Professor of Pharmacology, Univ. of Pennsylvania
11/14-	Adjunct Clinical Professor of Medicine, Penn State College of Medicine
10/14-12/18	Professor of Medical Oncology, Fox Chase Cancer Center
10/14-12/18	Deputy Director for Translational Research, Fox Chase Cancer Center
10/14-12/18	Co-Leader, Molecular Therapeutics Program, Fox Chase Cancer Center
1/16 -12/18	William Wikoff Smith Endowed Chair in Cancer Research, FCCC
1/19-	Professor of Pathology and Laboratory Medicine, Department of Pathology, Brown Alpert Medical School, Providence, Rhode Island
1/19-	Professor of Medical Science, Brown Institute for Translational Science, Brown Alpert Medical School, Providence, Rhode Island
1/19-	Clinical Oncologist, Division of Hematology/Oncology, Department of Medicine, Brown Alpert Medical School, Providence, Rhode Island
1/19-	Mencoff Family University Professor of Medical Science, Warren Alpert Medical School, Brown University, Providence, Rhode Island
1/19-	Director, Joint Program in Cancer Biology, Brown Institute for Translational Science and Lifespan Cancer Institute, Providence, Rhode Island
1/19-	Associate Dean for Oncologic Sciences, Warren Alpert Medical School, Brown University, Providence, Rhode Island
3/20-	Founding Director, Cancer Center at Brown University
12/21-	Founding Director, Legorreta Cancer Center at Brown University

Hospital and Administrative Appointments at the University of Pennsylvania:

7/94-2/10	Director, Laboratory of Molecular Oncology and Cell Cycle Regulation, School of Medicine
8/95-2/10	Member, Comprehensive Cancer Center
9/95-02	Member, Cancer Research Program, Institute for Human Gene Therapy
12/95-6/03	Member, Graduate Group in Cell and Molecular Biology (Genetics and Gene Regulation Program)
12/95-2/10	Active Medical Staff, Hospital of the University of Pennsylvania (HUP)
6/96-2/10	Attending Staff, HUP
7/02-2/10	Member, Graduate Group in Biochemistry and Molecular Biophysics
7/02-2/10	Director, Bioluminescence Molecular Imaging Core facility
7/03-2/10	Member, Graduate Group in Cell and Molecular Biology (Cell Growth and Cancer Program)
6/04-2/10	Member, Graduate Group in Pharmacological Sciences
12/04-2/10	Co-Program Leader, Radiation Biology & Imaging Program, ACC
8/05-2/10	Member, Institutional Review Board
12/05-2/10	Member, Institute for Translational Medicine and Therapeutics

2/07-2/10	Associate Director for Physician-Scientist Training, Hem/Onc
8/07-2/10	Member, Bioengineering Graduate Group

Administrative Appointments at the Penn State Hershey Medical Center, Penn State Cancer Institute

3/10-9/14	Division Chief, Hematology/Oncology, Department of Medicine, Penn State
3/10-9/14	Rose Dunlap Division Chair in Hematology/Oncology, Penn State
3/10-9/14	Associate Director for Translational Research, Cancer Institute
3/10-9/14	Director, Laboratory of Translational Oncology and Experimental Cancer Therapeutics (El-Deiry Lab website: http://eldeirylab.com/)
4/10-6/14	Chair, Penn State Hershey Cancer Institute Space Utilization Committee
5/10-9/14	Chair, Penn State Hershey Cancer Institute Pilot Res. Project Program
7/10-9/14	Member, College of Medicine Scientific Review Committee
2/11-9/14	Clinical Member, Conflict of Interest Review Committee, College of Medicine. Expertise: start-up companies and oncology clinical trials
2/11-9/14	Program Leader, Experimental Therapeutics, Cancer Institute
4/11-9/14	Penn State MD/PhD Program Internal Advisory Board
2/12-9/14	Internal Advisory Committee Member, Institute for Personalized Medicine
8/13-2/14	Interim Director, Penn State Hershey Cancer Institute
8/13-2/14	Member, Clinical Chairs Council
8/13-2/14	Member, Basic Science Chairs Council
8/13-2/14	Member, Executive Council
8/13-2/14	Member, Board of Governors
8/13-2/14	Member, Medical Executive Committee

Administrative Appointments at the Fox Chase Cancer Center

10/14-12/18	Deputy Director for Translational Research, Fox Chase Cancer Center
10/14-12/18	Co-Leader, Molecular Therapeutics Program, Fox Chase Cancer Center
10/14-12/18	Member, Senior Leadership Group, FCCC
6/15-12/18	Member, Research Review Committee (scientific review of clin protocols)
7/15-12/18	Chair, Precision Medicine Steering Committee, FCCC
10/14-12/18	Director, Laboratory of Translational Oncology and Experimental Cancer Therapeutics, FCCC
10/14-12/18	Member, Search Committees for Chair, Dept of Hematology/Oncology and Chair, Department of Pathology

Administrative Appointments at Brown University

1/19-	Director, Joint Program in Cancer Biology, Brown Institute for Translational Science and Lifespan Cancer Institute, Providence, Rhode Island
1/19-	Associate Dean, Oncologic Sciences, Brown Alpert Medical School, Brown University, Providence, Rhode Island
1/19-	Executive Committee, Hematology/Oncology Division, Brown University and Lifespan Health System
1/19-	Director, Laboratory of Translational Oncology and Experimental Cancer Therapeutics, Warren Alpert Medical School, Brown University
2/19-3/20	Chair, Cancer Biology Advisory Group Meeting
2/19-	Chair and Facilitator, Translational Research Disease Groups, Brown University (Joint Program in Cancer Biology and as of 3/20 Cancer Center at Brown University)
3/19-	Member, Clinical Cancer and Research Council (Brown University and Lifespan Cancer Institute); monthly meeting
5/19-	Member, Executive Committee, Brown University Oncology Group (BrUOG)

12/19-9/20	Member, Search Committee, Chair of OB-GYN, Brown University
2/20-	Member, Joint Cancer Center Strategic Planning Committee (Brown University and Lifespan Health System); quarterly meeting
3/20-	Director, Cancer Center at Brown University
3/20-	Chair, Cancer Center Leadership Advisory Group Meeting (previously the Cancer Biology Advisory Group Meeting); every two weeks
3/20-	Member, Scientific Review Monitoring Committee, Cancer Center at Brown University, Brown University Oncology Group, and Lifespan Office of Clinical Research
5/20-	Chair, Cancer Center Membership Committee, Cancer Center at Brown University
7/20-	Chair, Cancer Center Program Leaders Meeting, Cancer Center at Brown University; every two weeks
9/20-	Chair, Cancer Center at Brown University Pilot Awards Committee
1/21-	Co-Chair, Joint Institutional Commitment Working Group with Lifespan (Brown University and Lifespan Health System); monthly meeting
4/21-10/21	Member, Brown University Search Committee for the Dean, Warren Alpert Medical School
9/21-6/24	Member, Faculty Executive Committee (FEC), Brown University
9/21-6/24	FEC Representative, Medical Faculty Executive Committee (MFEC), Warren Alpert Medical School, Brown University
10/25-	Member, Brown University Search Committee for Chief, Surgical Oncology
11/25-	Member, Pediatric Hematology/Oncology Division Director Search Committee, Brown University

Specialty Certification:

1990	Diplomat, National Board of Medical Examiners (NBME) Certificate #346238; Part III: 98th percentile
1990	Board Eligible, American Board of Internal Medicine
1992	Board Eligible, Medical Oncology

Licensure:

Pennsylvania	MD 054226L exp 12/31/26 (Initial License Date 8/30/1994)
Rhode Island	MD16548 exp 06/30/26; Controlled Substance Registration CMD16548
DEA#	BE4121860 exp 8/31/27
NPI#	1275575714
Medicaid#	0014975600001
Medicare ID#	546313
Maryland	Board of Quality Assurance License No. D41541 (Issued 4/8/1991; inactive)

Other Certification:

1997	Coulter Trained Operator's Course; Coulter Elite
2005	Patient-Oriented Research Certification, Univ. of Pennsylvania
2006	Fellow, American Academy of Nanomedicine
2008	CITI Protection of Human Subjects Training Certification
2011	CITI Health Information Privacy and Security Curriculum
2011	CITI Human Research Curriculum
2011	CITI Good Clinical Practice and ICH (GCP) Curriculum
2012	Fellow, American College of Physicians
2013	Health Care and Professional Compliance and HIPAA Certifications (HCCS)
2014	CITI Protection of Human Subjects Training Certification (exp 8/10/17)
2014	CITI Good Clinical Practice and ICH (GCP) Curriculum
2014	CTEP Investigator ID# 46182
2015	MKSAP16 (174 CME Credits in Internal Medicine & subspecialties)

2016	MKSAP17 (205 CME Credits in Internal Medicine & subspecialties)
2016	CITI Training (Biomedical Research with Human Subjects; exp 11/9/18)
2018	CITI Good Clinical Practice Course for Clinical Trials with Investigational Drugs and Medical Devices (U.S. FDA Focus) Refresher Course; Record ID 23163372; Completion Date 3-16-18; Expiration Date 3-15-21
2020	CITI Training in Human Research; Record ID 36113234; Completion Date 3-20-20; Expiration Date 3-20-23
2020	CITI HIPAA Annual Renewal Curriculum; Record ID 38364149; Completion Date 9-10-20; Expiration Date 9-10-21
2020	CITI Conflicts of Interest Curriculum; Record ID 38347653; Completion Date 9-10-20; Expiration Date 9-9-24
2022	CITI HIPAA Annual Renewal Curriculum; Record ID 41608173; Completion Date 4-2-2022; Expiration Date 4-2-2023
2023	CITI Basic Course in Human Subjects Research; Record ID 54467077 Completion Date 3-25-2023; Expiration Date 3-25-2023
2023	CITI HIPAA Annual Renewal; Record ID 51898024 Completion Date 3-25-2023; Expiration Date 3-25-2024
2023	Conflict of Interest Training (PHS); Date 4-25-2023
2023	Brown University CARE Mouse Breeding 101; Date 11-18-2023
2023	Brown University CARE Rodent Euthenasia Training; Date 11-18-2023
2023	CITI GCP Course for Clinical Trials Involving Investigational Drugs (international / ICH focus); Record ID 55576505 Completion Date 4-25-2023; Expiration Date 4-25-2026
2023	Advance-CTR Mentoring Training Program; Facilitated by certified NRMN and CIMER faculty mentors; May 2023
2025	CITI Conflicts of Interest Training; Record ID 61752484 Completion Date 4-2-2025; Expiration Date 4-2-2029
2025	Brown Biological Safety and Bloodborne Pathogens BBP 3-21-2025
2025	Brown Policies on Discriminiation and Harrassment Completed 5-7-2025
2025	CITI HIPAA Annual Renewal; Record ID 58657755 Completion Date 7-11-2025; Expiration Date 7-11-2026
2026	Brown Care Controlled Substances Training Completion Date 3-3-2026
2026	Brown University Code of Conduct Completed 4-7-2026
2026	Brown Division of Research Certificate of Completion on Research Security Matters 4-6-2026
2026	CITI Basic Human Subject Protection Course; Record ID 72576875 Completion Date 4-9-2026; Expiration Date 4-9-2029

Administrative Experience:

7/94-2/10	Director, Laboratory of Molecular Oncology and Cell Cycle Regulation, University of Pennsylvania School of Medicine
95-97	Member, U. Penn School of Medicine Admissions Committee
99-10	University Research Foundation Awards Committee (Provost's Committee)
99-10	Member, M.D./Ph.D. Degree Admissions and Advisory Committee
99-10	Chair of several Ph.D. thesis committees in Graduate Program
2001-	Founding Editor-in-Chief, Cancer Biology and Therapy
2002-10	ACS IRG Award Selection Committee, U. Penn Cancer Center
2002	Advisory Committee, Biomedical Post-doctoral Prog (Vice Dean's Committee)
2002	Member, Cancer Biology Theme Group (Penn Dean's Committee)
02-05	Organizer, Hematology/Oncology Seminar Series, U. Penn
02-10	Director, Optical/Bioluminescence Molecular Imaging Core Facility, Penn
2003	Penn Oncology Review Committee, Penn-GSK collaboration
2003	Dept. of Medicine Taskforce on Commercial Partners (Co-Chair), Penn

03-08	Director, Administrative Core, U54 NCI Network for Translational Research in Optical Imaging
2004-	Founder, Oncoceutics, Inc (Acquired by Chimerix, 2021)
04-05	Chair, Admissions Committee, Cell Growth and Cancer Graduate Prog
04-05	Search Committee, Chair of the Department of Radiation Oncology, Penn
04-06	Organizer, 1st, 2nd, 3rd International Conference on Tumor Progression and Therapeutic Resistance in Philadelphia, Boston, and Baltimore
04-10	Co-Program Leader, Radiation Biology & Imaging Program, Penn ACC
05-06	Chair, Steering Committee, NCI NTROI Cancer Imaging Program
05-10	Member, Institutional Review Board (Human Subjects clinical research protocols)
2006	Sub-Chair, Tumor Microenvironment Network Study Section (NIH)
2007-10	Member, Strategic Planning Coalition (SPC), Abramson Comprehensive Cancer Center
2007-10	Member, Abramson Cancer Center Shared Resource Advisory Committee (SRAC)
2007-10	Associate Director for Physician-Scientist Training, Hem/Onc Division, University of Pennsylvania
07-08	Member, Hematology-Oncology Chief Search Committee, Univ. of Pennsylvania
2010-14	Director, Laboratory of Translational Oncology and Experimental Cancer Therapeutics, Penn State Hershey Medical Center and Cancer Institute (El-Deiry Lab website: http://eldeirylab.com/)
2010-14	Chief, Hematology/Oncology Division, Penn State Hershey Medical Center
2010-14	Associate Director for Translational Research, Penn State Cancer Institute
2012-12	Chair, Search Committee, Associate Director for Population Science, Penn State Hershey Cancer Institute
2012-13	Member, Search Committee, Cancer Center Director, Penn State College of Medicine
2013-14	Interim Director, Penn State Hershey Cancer Institute
2013-14	Member, Clinical Chairs Council
2013-14	Member, Basic Science Chairs Council
2013-14	Member, Executive Council, Penn State Hershey Medical Center
2013-14	Member, Board of Governors, Penn State Hershey Medical Center
2013-14	Member, Medical Executive Committee, Penn State Hershey Med Center
2013-	Founder, p53-Therapeutics, Inc
2014-18	Deputy Director for Translational Research, Fox Chase Cancer Center
2014-18	Co-Program Leader in Molecular Therapeutics, Fox Chase Cancer Center
2015-18	Chair, Precision Medicine Steering Committee, Fox Chase Cancer Center
2015-18	Co-Chair, Steering Committee, National Caris Centers of Excellence in Precision Medicine
2016-17	Track Leader, Tumor Biology, ASCO Annual Meeting
2017	Chair, BMCT-C NIH Study Section
2018-19	Chair, MCT-C (MCT-2) NIH Study Section
1/19-	Director, Joint Program in Cancer Biology, Brown Institute for Translational Science and Lifespan Cancer Institute, Providence, Rhode Island
1/19-	Associate Dean, Oncologic Sciences, Brown Alpert Medical School, Brown University
1/19-	Executive Committee, Hematology/Oncology Division, Brown University and Lifespan Health System

1/19-	Director, Laboratory of Translational Oncology and Experimental Cancer Therapeutics, Warren Alpert Medical School, Brown University
5/19-	Member, Executive Committee, Precision Oncology Alliance, Caris Life Sciences
5/19-	Member, Executive Committee, Brown University Oncology Group (BrUOG)
3/20-	Founding Director, Cancer Center at Brown University
1/21-	Co-Chair, Joint Institutional Commitment Working Group with Lifespan (Brown University and Lifespan Health System); monthly meeting
4/21-10/21	Member, Brown University Search Committee for the Dean, Warren Alpert Medical School
9/21-	Member, Faculty Executive Committee (FEC), Brown University
9/21-	FEC Representative, Medical Faculty Executive Committee (MFEC), Warren Alpert Medical School, Brown University
2021-	Founder, SMURF-Therapeutics, Inc
11/21-2025	Faculty Advisor, Warren Alpert Medical School Cancer Research Journal Club #AMS_CRJC
12/21-	Founding Director, Legorreta Cancer Center at Brown University
9/21-6/24	Member, Faculty Executive Committee (FEC), Brown University
9/21-6/24	FEC Representative, Medical Faculty Executive Committee (MFEC), Warren Alpert Medical School, Brown University
10/25-	Member, Brown University Search Committee for Chief, Surgical Oncology
11/25-	Member, Pediatric Hematology/Oncology Division Director Search Committee, Brown University

Awards, Honors and Membership in Honorary Societies:

1980	Phi Kappa Phi
1981	Magna Cum Laude, University of Miami
1983	University of Miami Graduate Fellowship Award
1984	Earl Sutherland Memorial Prize, University of Miami Schl of Medicine
1985	Dean's Award, Best MD/PhD Student Presentation 1985 Eastern Student Research Forum of the AMA
1986	Member, University of Miami Medical Student Ethics Committee
1987	Director, 1987 Eastern Student Research Forum of the AMA
1988	Member of the Johns Hopkins Hospital House Staff Council
1989	Election to American Society of Internal Medicine
1990	Certificate of Merit, 13th Annual Young Investigator's Day, The Johns Hopkins University School of Medicine
1992	Citation, *Who's Who* (Young Americans)
1992	Best Paper on Colon Cancer in 1991 (Cancer Investigation 10,489, 1992)
1994	Ciba-Geigy American Association for Cancer Research Travel Award
1994	Best Presentation, 1st Annual Johns Hopkins Oncology Fellow Research Day
1995	Most highly-cited paper in Biology, 11-12/94, ScienceWatch
1995	Most highly-cited paper in Biology, 5-8/95, ScienceWatch
1995	Assistant Investigatorship, HHMI
1998	Journal Cover/Biosketch, Int. J. Oncology, October 1998
1998	Michael S. Brown Junior Faculty Research Achievement Award, University of Pennsylvania School of Medicine
1999	Keynote Address, 25th Annual Eastern Student Research Forum, Miami, FL
1999	Elected to Membership in the American Society for Clinical Investigation
2000	Awards Judge, Fels Institute Research Symposium, Philadelphia, PA
2001	Honorary Master of Arts Degree, University of Pennsylvania
2004	Pioneer in Technology Award, Sbarro Health Research Organization

2005	Elected Member, Interurban Clinical Club
2005	Elizabeth and John Cox Award for Molecular Advances in GI Diseases and Cancer, Georgetown University Medical Center
2005	ISI Highly Cited Researcher in the category of Molecular Biology and Genetics (Thomson-ISI; citation data covers 20-year period)
2006	Fellow, American Academy of Nanomedicine
2006	George and Mary J. Hamman Lectureship, MD Anderson Cancer Ctr
2006	Member, Association for Patient Oriented Research (APOR)
2007-2009	Councilor (Philadelphia), Interurban Clinical Club
2008	Elected Member, Association of American Physicians
2008-2013	Secretary/Treasurer, Interurban Clinical Club
2008, 2009	Cited in “America’s Top Oncologists” by the Consumer’s Research Council of America
2009-2018	American Cancer Society Research Professorship
2009	Graduate Student’s Choice Speaker, Interdisciplinary Biomedical Sciences Graduate Program, University of Arkansas for Medical Sciences
2009	Elected Member, Union League of Philadelphia
2010-2014	Rose Dunlap Division Chair in Hematology/Oncology, Penn State University
2010	2010 Distinguished Speaker Award, Thomas Jefferson University College of Graduate Studies, Cell and Developmental Biology Graduate Program, In grateful recognition of commitment to research and education
2010	Penn State College of Medicine Dean’s Lecture November 16, 2010
2010	2009 Kuwait Prize in Applied Sciences for work on “Cancer Diseases” (International Prize of $100K)
2011	Member, Society for Translational Oncology
2011	Member, Faculty of 1000, Cell Growth & Division
2012	Fellow, American College of Physicians
2012	Dean’s Award for Excellence in Teaching, Penn State College of Medicine
2012-2013	Councilor-at-Large, Association of Specialty Professors of Internal Medicine, Association of Academic Internal Medicine
2013-2014	Award as Principal Investigator, American Cancer Society Institutional Research Grant, Penn State University
2013-2014	President, Interurban Clinical Club
2013	Excellence in Mentoring Award, Department of Medicine, Penn State College of Medicine
2014	Elected Member, The Johns Hopkins University Society of Scholars
2015-2018	Member, American Cancer Society Council for Extramural Grants
2016-	William Wikoff Smith Endowed Chair in Cancer Research, FCCC
2016-2017	Track Leader, Tumor Biology, American Society for Clinical Oncology (ASCO) Annual Meeting
2016	Organizer and host, Regional Cancer Moonshot Summit covering a 5-state area (Delaware, Pennsylvania, Maryland, Virginia, West Virginia, and DC); event held at Fox Chase Cancer Center on June 29, 2016
2016	Scientific Research Award from the American Cancer Society in Philadelphia on November 2, 2016 (National Award)
2017	Invited Keynote Speaker at 9th Annual MD/PhD Student Research Symposium, University of Miami Miller School of Medicine, Miami, Florida (April 6, 2017).
2017-	Member, Review Panel, Conquer Cancer Foundation, ASCO
2017	Invited Speaker, 20th Annual John B. Little Symposium, Harvard School of Public Health, Boston, MA
2018	Chair, Mechanisms of Cancer Therapeutics MCT-2 NIH Study Section

2018	Faculty Member of the Month, F1000Prime (August, 2018)
2018-	Associate Editor, Molecular Oncology, HemOnc Today
1/19-	Associate Dean for Oncologic Sciences, Warren Alpert Medical School, Brown University, Providence, Rhode Island
3/20-	Founding Director, Cancer Center at Brown University
2021	Associate Editor-in-Chief, American Journal of Cancer Research
1/21-	Senior Editor, eLife (Medicine and Cancer Biology)
1/21-	Editorial Board, Cancer History Project (The Cancer Letter) in commemoration of the 50th Anniversary of the National Cancer act
12/21-	Founding Director, Legorreta Cancer Center at Brown University
3/22-	American Cancer Society (ACS) Fostering Innovation Award (FIA) between Morehouse School of Medicine and Brown University (one of four awards nationally)
3/22	Brown University 2021 Inventor of the Year Award
3/22	2022 American Association for Cancer Research (AACR)-Novocure Research Award to study Tumor Treating Fields in various tumors
7/22-	Chair, Exhibits Committee, American Association for Cancer Research
1/23-	External Advisor, Yale University Surgical Oncology T32
6/23	Northwestern Lurie Cancer Center Targeted CPDM and PRMS EAB
10/23	Brown University 2023 Inventor of the Year Award
2/24	Elected Senior Member, National Academy of Inventors
12/24-9/25	Finalist as Candidate for Director, US National Cancer Institute
8/25	Drug Discovered in El-Deiry Lab in 2007 was first ever US FDA Approval to treat recurrent H3K27M-mutated Glioma
2/26	Lifetime Achievement Award in Precision Oncology in Mumbai, India

Memberships in Professional and Scientific Societies:

National Societies:

American Association for the Advancement of Science
American Society for Microbiology (1995)
American Association for Cancer Research (1995)
American Society of Gene Therapy (1997)
American Society of Clinical Oncology (1997)
American Society for Clinical Investigation (1999)
Interurban Clinical Club (2005); Started by Sir William Osler in 1905
American Academy of Nanomedicine (Fellow; 2006)
Interurban Clinical Club (2005); Councilor, Philadelphia (2007); Secretary/Treasurer (2008); President (2013-2014)
Association of American Physicians (2008)
Society for Translational Oncology (2011)
American College of Physicians (Fellow; 2012)

National Scientific Committees:

NIH: Pathology B Study Section, Ad-Hoc 10/98-6/00
Pathology B Study Section Full Member 7/00-6/04 (TPM Study Section)
Member, P01 review panel (MD Anderson), 2/99
Member, SPORE review panel, 2/01
Member, Cold Spring Harbor Laboratory P01 SEP (30th year renewal, 2001)
Chair, Special Emphasis Panel (ZRG1 ONC-J: Molecular Biology of Cancer), 3/04
Member, ICMIC Study Section, 10/04
Chair, NTROI Steering Committee, NCI Cancer Imaging Program 2/05-2/06
Chair, Drug Discovery and Development Working Group, NTROI, NCI 2/05-8/08
Member, SPORE review panel, 5/05 (GYN), 9/05 (Lung, GU)

Member, P01 cluster review (MIT, Salk), 10/05
Molecular Oncogenesis (MONC) Study Section, Ad Hoc 6/05, 10/05, 2/06, 6/06
Sub-Chair, NCI Tumor Microenvironment Network Study Section, August 2006
Molecular Oncogenesis Study Section Member 10/06-6/07
Medical Imaging Study Section, (MEDI-A) Ad Hoc 10/07, 2/08, 10/08, 2/09
Chair, ZRG1 ONC-U (92); Cancer Biology and Therapy Pilot Studies, 2/08
Chair, ZRG1 ONC-S (02)M; Radiation Oncology, 2/08
Chair, ZRG1 ONC-Y (02)M; Genetic Pathways and Tumor Suppression, 10/08
Oncology Fellowship Study Section 2/09, 6/10
Ad-Hoc member, Tumor Microenvironment Study Section, 10/10
Member, SPORE review panel, 2/11
Ad-Hoc member, NCI Subcommittee A CCSG site visit, Moffitt Cancer Center, 5/11, CCSG Parent Committee Meeting, 8/11
Member, BMCT-C (09) study section 10/11, 2/12, Co-Chair: 6/12, 10/12, 2/13, 6/13, 12/13, 2/14, 6/14, 10/14, 2/15, 10/15, 2/16, 6/16, 10/16, Chair: 2/17, 6/17, 10/17
Ad-Hoc member, Oncological Sciences F09-D08 oncology fellowship applications, 11/11
Chair, NIEHS RFA on stem cells 2/12
SPORE review panel, 2/13, 11/13, Ad-Hoc Chair, 2/14, Chair, 5/14, 10/14, 2/16
Ad-Hoc member, NCI Subcommittee A CCSG site visit, Northwestern Lurie Cancer Center 2/13; MSKCC 5/13; Duke 5/14; Wash U. Siteman 1/15; USC 6/15; U. Michigan 9/17; Northwestern 2/18; Roswell Park 9/18; MDACC 1/19
Ad-Hoc member, CAMP study section, 6/13, 11/15
Member, U54/U24 NIH Review Panel for PDX models, 7/17
National Cancer Institute Site Visit, Lab of Cell Biology, 3/99
NSF reviewer 1997, 1998
DOD breast cancer program (Integration Panel) 11/99
VA reviewer 1996, 1997, 1998
ACS Cell Cycle Study Section (Ad Hoc), 6/00

Howard Hughes Medical Institute, International Scholars Study Section, 9/01

DOD study section 8/02
External Advisory Committee (Wistar melanoma P01; 2003)
Scientific Advisory Board (Morphotek, Exton, PA; 2003-)
External Advisory Committee (Johns Hopkins Lymphoma SPORE; 2004-2005)
Scientific Advisory Board (Sbarro Health Research Organization, Philadelphia, PA; 2004-)
Scientific Advisory Board (Reify, Cambridge, MA; 2004-05)

Founder (Oncoceutics, Philadelphia, PA; 2004; acquired by Chimerix, 2021)

Scientific Advisory Board (Progenra, Malvern, PA; 2005-09)
External Advisory Committee, NYU Cancer Institute (Ad Hoc), 5/07
Melanoma Research Foundation, 11/07
Scientific Advisory Council, University of Pittsburgh Cancer Institute, 3/08, 3/09, 12/09

Maryland Stem Cell Research Program reviewer, 3/08, 3/09, 3/10, 3/11, 3/12, 3/13, 3/14, 3/15, 3/16, 3/17, 3/18, 3/19, 3/20, 9/20, 3/21, 3/22, 8/22, 3/23

AACR Science Policy and Legislative Affairs Committee (2005-08)

AACR Representative to NCCN/ASCO/AACI/FOCR/AACR Leadership Conference, 2007
Scientific Advisory Board (Celsion, Columbia, MD; 2008-09)

Member, Stand Up To Cancer Innovative Research Grants Committee; 2009

External Advisor, Fox Chase Cancer Ctr., Molec. Translational Medicine Program; 2009
Member, AACR Clinical Research & Exp. Therapeutics Awards Committee; 2009-2010
Member, Stem Cell Advisory Board, Bristol-Myers Squibb; 2009
California Institute for Regenerative Medicine Basic Biology Review Committee; 2/10, 3/12
NCI Center for Cancer Research Site Visit (Laboratory of Cellular and Molecular Biology); 6/10
Invited to review NCI Lab of Cell Biology led by Dr. Gottesman 3/19
FDA Laboratory of Biochemistry; 10/10, 1/16 (declined due to CCSG site visit at FCCC)
Reviewer on Expert Panel, Skolkovo Foundation, 2011
External Advisor, Fox Chase cancer Center Keystone Program, 11/11
National Cancer Institute Site Visit, Intramural Programs in Medical Oncology, 7/14
EAB Member, Head & Neck Cancer SPORE, University of Colorado; 2015-
ACS Professorship Site Visit: 2/15 (Krieger), 8/15 (Bernstein), 8/16 (Sood), several others

Member, AACR Clinical & Translational Cancer Research Grants Scientific Review Committee; 2015-2016

Member, ASCO Scientific Program Committee, Tumor Biology Track: 2015-2018
Track Leader, Tumor Biology, ASCO 2016-2017

Member, Conquer Cancer Foundation Grants Selection Committee, 6/17-

Advisory Board, DNAsimple 2016-

Member, CCSG Special Emphasis Panel for final evaluation of Lurie Comprehensive Cancer Center, 5-3-18

Chair, Cancer Moonshot Initiative Review Panel (Human Tumor Atlas Research Program) 5-7-18 to 5-8-18, Chevy Chase, MD

Chair, Mechanisms of Cancer Therapeutics 2 (MCT2) NIH Study Section Review Panel, 6-18-18 to 6-19-18; 10-29-18 to 10-30-18; 2-25-19 to 2-26-19; June, 2019

CCSG Site Visit: Ohio State May, 2020; USC May, 2021; U. Arizona Feb, 2022; U. Indiana Feb, 2024; Columbia University Jan, 2025

Co-Chair P01 study section: Nov, 2021; March, 2022; Sept, 2024; Feb, 2025

Member, NCI P01 study section March 2-3, 2023

Member, NCI Clinical and Translational Cancer Research Review meeting June 22-23, 2023

Reviewer, Cancer Prevention and Research Institute of Texas (CPRIT) 2024, 2025

International Scientific Committees

Cancer Research Campaign (UK), reviewer 4/99, 6/00
Scientific Advisory Board, International Society of GI Oncology, 2006
Member Directorate, WIN Consortium, 2022-
Member, Executive Committee, Caris Precision Oncology Alliance, 2019-
Chair, WIN Consortium, Elected December, 2023-

Local Scientific Committees at University of Pennsylvania:
University Research Foundation Awards Committee (U. Penn; 1999-2010)
Mike Brown Junior Faculty Awards Committee (U. Penn Schl of Med; 1999-2005)
ACS IRG Awards Committee (U. Penn Abramson Cancer Center; 2002-2010)

Local Scientific Committees at Penn State University:
Chair, PSHCI Space Utilization Committee (2010-2014)
Member, PSHCI Pilot Research Project Program (2010)
Member, PSHCI Scientific Review Committee (2010-2013)
Member, Penn State College of Medicine Scientific Review Committee (2010-2014)
Member, Penn State College of Medicine Conflict of Interest Committee (2011-2014)

Editorial Positions:

1996	Editorial Board, International Journal of Oncology
1997-01	Editorial Board, ASCO OnLine Journal Club
1999-02	Associate Editor, Cancer Research
1999-05	Associate Editor, Clinical Cancer Research
2000-06	Editorial Board, Leukemia
2001	Associate Editor, Cell Cycle
2001-19	Founding Editor-in-Chief, Cancer Biology and Therapy
2002-05	Editorial Board, Journal of Biological Chemistry
2003	Editor, Tumor Suppressor Genes, Vol I & II, Methods in Mol. Biol., Humana Press
2003-10	Editorial Board, Cell Death and Differentiation
2003-08	Editorial Board, Molecular and Cellular Biology
2003-08	Editorial Board, International Journal of Cancer
2003	Editorial Board, Cancer Therapy
2004	Editor, Death Receptors in Cancer Therapy, Humana Press
2004	Editorial Board, Journal of Experimental and Clinical Cancer research
2006-08	Section Editor, Reviews in Basic and Clinical Gastroenterology, Gastroenterology
2006-	Series Editor, Current Cancer Research, Humana Press/Springer
2007-10	Associate Editor, Journal of Clinical Investigation
2010-22	Editorial Board, Cancer Research
2010	Academic Editor, PLoS ONE
2010-12	Editorial Board, Journal of Cell Science and Therapy
2016-	Editorial Board, HemOnc Today (Section on Molecular Oncology)
2018-	Associate Editor, Molecular Oncology, HemOnc Today
2019-25	Chief Editor for Cancer Molecular Targets and Therapeutics, Frontiers in Oncology
2021-25	Senior Editor for Medicine and Cancer Biology, eLife
2021-	Editorial Board, Cancer History Project (The Cancer Letter) in commemoration of the 50th Anniversary of the National Cancer act
2021-	Associate Editor-in-Chief, American Journal of Cancer Research
2023-	Associate Editor, Cancer Drug Resistance
2024-	Co-Editor-in-Chief, Oncotarget

Academic Committees at the University of Pennsylvania:

1995-1997	Member, School of Medicine Admissions Committee
1995-1997	Member, Ph.D. Thesis Committee for Betty Tong
1995-1998	Member, Ph.D., Thesis Committee for Arshad Amanullah
1996	Reviewer, Breast Cancer Grant Program for the Cancer Center
1996-1997	Member, Graduate Group Admissions Committee

1996-1997	Member, Departmental Review Committee for Radiation Oncology
1996-1998	Member, Ph.D. Thesis Committee for Ralph DeBerardins, Department of Human Genetics
1996-1999	Member, Ph.D. Thesis Committee for Kathy Elliott
1997-1998	Member, Ph.D. Thesis Committee for Cheryl Clarkin
1998	Member, Ph.D. Thesis Committee for Joseph Erhardt, Dept of Pharmacology
1998	Member, Steering Committee, Cancer Genetics Program (Cancer Center)
1999	Member, Ph.D. Thesis Committee for Jaimo Ahn, Department of Genetics
1999-2010	Member, Combined M.D./Ph.D. Degree Admissions and Advisory Committee
1999-2000	Member, Ph.D. Thesis Committees for Ravi Venkataramani, Charlotte Dai, Michael Gee and Celina D'Cruz
1999	Chair, Ph.D. Thesis Committee, Doug Stairs, Dept of Mol & Cell Engineering
2000	Chair, Ph.D. Thesis Committee, Susan Moody, Dept of Mol & Cell Engineering
	Member, Selection Committee, University of Pennsylvania Health System Excellence Awards (Mike Brown Award)
2001-10	Member, Selection Committee, Univ. of Pennsylvania Res. Foundation Awards
2001	Member, Ph.D. Thesis Committees for John Bothos, Steve Gibson and Gang Li, Department of Molecular and Cell Engineering
	Member, Advisory Committee, Cancer Pharmacology Program Project
2002-04	Member, Ph.D. thesis Committee for Tammy Mochan
2002-10	Advisory Committee, Biomedical Post-doctoral Programs
2002	Member, Cancer Biology Theme Group (Dean's Committee)
2002	Internal Advisory Committee (P01; Brodeur, CHOP).
2002-10	ACS local IRG Award Selection Committee, U. Penn Cancer Center
2003	Penn Oncology Review Committee, Penn-GSK collaboration
2003	Dept. of Medicine Taskforce on Commercial Partners (Co-Chair)
2004-05	Admissions Committee, Cell Growth and Cancer Program
2004-05	Search Committee, Chair of the Department of Radiation Oncology
2004-05	Chair, Admissions Committee, Cell Growth and Cancer Graduate Program, University of Pennsylvania
2005	Member, search for Director of Biomedical Post-doctoral Programs (BPP)
2006	Several graduate student thesis committees
2007	Chair, University of Pennsylvania School of Medicine Committee to evaluate the Impact of NIH Funding on Post-Doctoral Fellow Career Decisions
2007-08	Member, Hematology-Oncology Chief Search Committee, University of Pennsylvania
2008-09	Co-Chair, Translational Research Steering Committee, Abramson Cancer Center

<u>Academic Committees at Penn State University</u>:

2010-14	Chair, Penn State Hershey Cancer Institute Space Utilization Committee
2010-14	Chair, Penn State Hershey Cancer Institute Pilot Res. Project Program
2010-14	Member, College of Medicine Scientific Review Committee
2010-13	Faculty Mentor, JFDP (Jussuf Kaifi, M.D. Ph.D., Surgical Oncology, mentee)
2010-11	Member, Search Committee for Chair of Biochemistry and Molecular Biology
2010-11	Member, Search Committee for Chief, Surgical Oncology
2011-14	Member, MD/PhD Program Internal Advisory Board
2011-14	Member, College of Medicine Conflict of Interest Committee
2012-12	Chair, Search Committee for Associate Director for Population Science, PSHCI
2012-13	Member, Search Committee, Cancer Center Director, Penn State College of Medicine
2012-14	Faculty Mentor, JFDP (Salli Nurgul, Ph.D., Pharmacology, mentee)
2013-16	Faculty Mentor (George Lucian Moldovan, Ph.D., Dept of Biochem & Mol Biol) Mentoring of Dr. Moldovan continued after moving to Fox Chase Cancer Center

Major Teaching and Clinical Responsibilities at the University of Pennsylvania (1994-2010):

1. Hematology-Oncology Consult Service at VAMC, 2-4 weeks per year
2. Oncology Consult Attending at HUP, 2-4 weeks per year
3. Rhoads 6 Medicine Oncology Ward Attending at HUP, 2-4 weeks per year
4. Organizer, Cell Cycle and Cancer Weekly Journal Club at the Cancer Center
5. Organizer, Cell & Molecular Biology 638 course on "Advanced Seminar in Apoptosis" Co-Organized with Xiaolu Yang, once weekly in the Spring
6. Lecturer in Cancer Pharmacology and Cancer Biology graduate courses (2-4 one hour invited lectures each semester)
7. Organizer, Research Seminar Series, Hem/Onc Division; 2002-2005 http://www.uphs.upenn.edu/hematol/seminars.htm
7. Organizer, Monthly ACC Radiation Biology & Imaging Program Research Seminars; 2006-10

Major Teaching and Clinical Responsibilities at Penn State University (2010-2014):

1. Inpatient Medical Oncology Attending at Hershey Medical Center, 6-8 weeks per year
2. Outpatient Colorectal Cancer Medical Oncology Clinic, two half days per week
3. Basic Science lectures to Hematology/Oncology Fellows, monthly
4. Organizer, new course (2013) on Current Topics in Translational Cancer Research
5. Organizer, Monthly PSHCI Experimental Therapeutics Program Research Meetings

Major Teaching and Clinical Responsibilities at Fox Chase Cancer Center (2014-2018):

1. Outpatient Colorectal Cancer Medical Oncology Clinic, one half day per week
2. Oversight of clinical fellows, residents and medical students in clinic and when patients admitted to the hospital
3. Organizer, bi-weekly Molecular Therapeutics Program meetings at FCCC
4. Organizer, Translational Research Disease Groups, FCCC
5. Mentor for several graduate students, clinical fellows and junior faculty

Major Teaching and Clinical Responsibilities at Brown University/Rhode Island Hospital (2019-Present):

1. Outpatient Colorectal Cancer Medical Oncology Clinic, one half day per week
2. Organizer of Cancer Center Programs, meetings, Cancer Center at Brown University
3. Organizer, Translational Research Disease Groups, Brown University Cancer Center
4. Oversight of MD/PhD students and medical students in clinic at Rhode Island Hosp.
5. Mentor for several graduate students, clinical fellows and junior faculty
6. Faculty Advisor, Warren Alpert Medical School Cancer Research Journal Club #AMS_CRJC

IRB Protocols with El-Deiry as Principal Investigator at Penn State Hershey Medical Center (2010-2014):

1. A Randomized, Multi-Center, Blinded, Placebo-Controlled Study of Mapatumumab ([HGS1012], A Fully-Human Monoclonal Antibody to Trail-R1) in Combination with Sorafenib as First-Line Therapy in Subjects with Advanced Hepatocellular Carcinoma (PSHCI 10-076). Sponsor: Human Genome Sciences.
2. Prevalence of Stem Cell and Prognostic Markers in Circulating Tumor Cells of Patients with Metastatic Colorectal Cancer Undergoing Chemotherapy (PSHCI 10-066). Investigator-initiated. http://clinicaltrials.gov/ct2/show/NCT01286883?term=NCT01286883&rank=1
3. A Phase Ib, Open-Label, Dose-Escalation Study of the Safety and Pharmacokinetics of Multiple Doses of Dulanermin Administered Intravenously in Combination with Camptosar/Erbitux Chemotherapy or the Folfiri Regimen with or without Bevacizumab in Subjects with Previously Treated Metastatic Colorectal Cancer (PSHCI 10-042). (IRB Protocol No. 34778). Sponsor: Genentech.
4. Variable Patterns of Plasma 5-Fluorouracil Levels During Dose Optimization of Infusional 5-FU in

Colorectal Cancer Patients (PSHCI 11-066). Investigator-initiated.
5. Plk2-TSC interactions and tumor progression in colorectal cancer. (IRB Protocol No. 36137EM). Investigator-initiated.
6. Development of multi-probe panels for characterization of circulating tumor cells (IRB Protocol No. 35227NHR). Investigator-initiated.
7. Sensitivity of TRAIL and TRAIL-based Therapies in Colon Cancer Tissue and Stroma. (IRB Protocol No. 35650EP). Investigator-initiated.
8. A Registry of Caris Target Now Test Results (Biomarker Expression Patterns) and Hematopoietic Diagnostics for Evaluation of Correlation with Clinical Outcomes for Cancer and Other Patients. (IRB Protocol No. 39088EP). Investigator-initiated.
9. A Phase II/III Trial of Neoadjuvant FOLFOX with Selective Use of Combined Modality Chemoradiation versus Preoperative Combined Modality Chemoradiation for Locally Advanced Rectal Cancer Patients Undergoing Low Anterior Resection with TOTAL Mesorectal Excision (N108; PSHCI 12-084). (IRB Protocol No. 40853FR).
10. Detecting Circulating Tumor Cells using the Veridex CellSearch in Patients Being Evaluated for Carcinoma of Unknown Primary & Utlizing Post-Veridex Single Cell Multiplex Assay in an Attenpt to Identify the Primary Site of Origin (PSHCI 12-002). (IRB Protocol No. 39706). Investigator-initiated. Pending Approval.
11. Quinacrine-Capecitabine Combinatorial Therapy for Advanced Stage Colorectal Adenocarcinoma: A Phase I/II Clinical Trial (PSHCI 11-099). (IRB Protocol No. 40877). Investigator-initiated. Investigator IND 114242 granted from FDA (El-Deiry; Approval Date 5/17/12 from FDA for Study to proceed).
12. A Randomized Double-Blind, Placebo-Controlled Study of the Efficacy and Safety of Monotherapy MORAb-004 Plus Best Supportive Care in Subjects with Chemorefractory Colorectal Cancer (MORAb-004-202-CRC; PSHCI 12-005). (IRB Protocol No. 40816). Sponsor: Morphotek.
13. STEAM (Sequencing Triplet with Avastin and Maintenance): FOLFOXIRI/Bevacizumab Regimens (Concurrent and Sequential) vs. FOLFOX/Bevacizumab in First-Line Metastatic Colorectal Cancer (ML28442) (PSHCI 12-120). (IRB Protocol No. 42555). Sponsor: Genentech.

<u>IRB Protocols with El-Deiry as Principal Investigator at Fox Chase Cancer Center (2014-2018)</u>

1- A Standalone Pilot Data Collection Protocol through the Acquisition of Whole Blood for Immunophenotyping and the Characterization of Circulating Tumor Cells, Circulating DNA/RNA, Exosomes and/or Tumor Specific Immunity/Immune Cell Activation for any Malignancy at any Stage of Disease. (IRB Protocol 15-9032).
2- Detecting Circulating Tumor Cells Using the Janssen*CellSearch in Patients Being Evaluated for Carcinoma of Unknown Primary (CUP) and Utilizing Single Cell Multiplex Assay in an Attempt to Identify the Primary Site of Origin. (IRB Protocol 15-9003).
3- Quinacrine & Capecitabine Combinatorial Therapy for Advanced Stage Colorectal Adenocarcinoma: A Phase I/II Clinical Trial. (IRB Protocol 15-1022).
4- A Phase II Basket Study of the Oral TRK Inhibitor LOXO-101 in Subjects with NTRK Fusion-Positive Tumors. (IRB Protocol 15-1081). Sponsor: Loxo Oncology, Inc.
5- Caris Molecular Intelligence® and Caris Centers of Excellence for Precision Medicine NetworkTM Outcomes Associated Repository. (IRB Protocol 16-9024). Sponsor: Caris Life Sciences.
6- The Targeted Agent and Profiling Utilization Registry (TAPUR) Study. (IRB Protocol 16-1065). Sponsor: ASCO.
7- Phase II, single arm, open label, investigator-initiated clinical trial of Regorafenib plus 5-FU beyond progression on Regorafenib monotherapy in metastatic colorectal cancer (mCRC). Investigator-initiated; sponsor: Bayer.
8- Comprehensive immune profiling and genomic assays to investigate colorectal cancers. (IRB Protocol 17-9043). Sponsor: OmniSeq.
9- Assessment of cancer 3D organoid cultures as predictive assays for therapeutic efficacy in immunosuppressive tumor microenvironments (ITM). (IRB Protocol 16-9039). Sponsor: Morphotek.
10- Pilot analysis of utility of liquid biopsy results in advanced colorectal cancer. (IRB Protocol 17-9057).
11- Case series of FOLFIRI plus ziv-aflibercept beyond progression on second line FOLFIRI plus bevacizumab in advanced colorectal cancer. (IRB Protocol 18-9019).

IRB Protocols with El-Deiry as Scientific Sponor or Principal Investigator at Brown University (2019-)

All studies with Oncoceutics/Chimerix drugs including ONC201 and ONC212 are required to have Principal Investigators for the clinical trials other than Dr. El-Deiry due to a conflict of interest as Dr. El-Deiry is the Scientific Founder and shareholder in Oncoceutics, Inc. Dr. El-Deiry provides scientific input that has led to the rationale, study concepts, and in some cases he has submitted grants that have funded the clinical trials.

1- BrUOG 379 "A Phase Ib/II Single Arm Study of ONC201 plus Nivolumab in Microsatellite Stable (MSS) metastatic colorectal cancer (mCRC) patients" (Khaldoun Almhanna clinical PI); active, enrolling (Dr. El-Deiry arranged for the funding of this trial from BMS, Nivolumab from BMS, and ONC201 from Oncoceutics).
2- BrUOG 383 "A Phase Ib/II Single Arm Open Label Investigator-Initiated Therapeutic Clinical Study of ONC201 plus TLY012 (SQ TRAIL) in advanced solid tumors" (Benedito Carneiro clinical PI); awaiting IND submission, support from Theraly Pharmaceutics, Inc.
3- BrUOG 387 "Phase Ib Investigator-Initiated Clinical Trial of Heat Shock Protein 90 Inhibitor TAS-116 Plus Cyclin-Dependent Kinase 4/6 Inhibitor Palbociclib in Advanced Breast Cancer Progressing on Palbociclib and Solid tumors with Retinoblastoma (Rb) Deficiency" (El-Deiry overall study PI); **IND approved by FDA in September, 2022 for study to proceed**
4- BrUOG 392 "Phase I Study of Oral ONC212 in Patients with Locally Advanced or Metastatic Pancreatic Cancer and other solid tumors" (Howard Safran clinical PI); awaiting completion of IND-enabling studies; both IND-enabling studies and first-in-human studies funded by grant award fron the Warren Alpert Foundation to Wafik El-Deiry.
5- BrUOG 395 "ONC201, Temozolomide and Radiation for Newly Diagnosed Glioblastoma: A Phase IB/II Window of Opportunity Study" (Howard Safran clinical PI); awaiting in vivo preclinical data in El-Deiry Lab, resubmission of NCI R01 grant.
6- BrUOG 399 "A Pilot Study of ONC201 Immune-Chemoprevention for Colorectal Adenomas" (Alex Raufi clinical PI); NCI Prevention Program funding clinical trial
7- BrUOG 400 "A Phase II Study to Evaluate ALRN-6924 With Pembrolizumab in Patients with Solid Tumors with Progressive Disease After PD-1 Immune Checkpoint Inhibition" (Wafik El-Deiry, PI); awaiting discussions with Aileron who agreed to provide study drug ALRN-6924, IND submission
8- BrUOG 403 "Phase Ib of regorafenib plus TAS102 in gastric and colorectal cancer" (Wafik El-Deiry, PI); discussions on hold with Bayer pending further preclinical data
9- BrUOG 432 "Early Cancer Deterction Blood Test in RI" awaiting funding

Precision Oncology Alliance LOI's/Projects with El-Deiry as Principal Investigator at Brown (2019-)

1- "Impact of MDM2/MDM4 (MDMX) on immune checkpoint blockade treatment outcomes in advanced cancer" (El-Deiry, PI) LOI submitted 9-22-2020
2- "Tumor evolution contributing to therapy resistance assessed by serial molecular profiling of tumor specimens in the Caris Precision Oncology Alliance database" (El-Deiry, PI) LOI submitted 10-3-2020
3- "CDKN1A/p21(WAF1), chemosensitivity and patient outcomes in advanced cancer with attention to bladder/urothelial cancer" (El-Deiry, PI) LOI submitted 12-5-2020
4- "Differences between BRCA1 and BRCA2 mutated tumors in response to immunotherapy" concept stage
5- "Benefit from bevacizumab in combination with either FOLFOX or FOLFIRI based on patient selection using the Caris FOLFOX AI alogorithm" concept stage

Community Service:

4/30/11 Health and Wellness Experts Panel member (two sessions; general or specific questions on cancer), Season's of Health community event, Hershey Country Club, Hershey, PA
3/10/12 "Personalizing Cancer Therapy at Penn State Hershey Cancer Institute," 8th Annual Public Forum "Reducing Cancer in Our Community" in partnership with the American Cancer Society, Hershey, PA
2/7/13 Guest Speaker at the American Cancer Society "Taste of Relay" Event, The Relay For Life Event of Lancaster, PA, American cancer Society.

9/23/13 Guest Speaker for American Cancer Society Presentation at Hershey Rotary Club, Hershey, PA
11/2/13 Invited Speaker, Penn State Cancer Institute community outreach event, Harrisburg, PA
11/2/13 Invited Speaker, American Cancer Society Annual Benefit of Hope gala, York, PA
11/15 Panel Member, ACS Roundtable on Precision Medicine, Philadelphia, PA
2/16/16 Speaker at ACS Philadelphia Golf Classic Kickoff event, Wells Fargo Center, Philadelphia
6/29/16 Organizer of Regional Cancer Moonshot Summit at Fox Chase Cancer Center in collaboration with the American Cancer Society
10/13/16 Invited Speaker at ACS Research Event, Fox Chase Cancer Center, Philadelphia, PA
11/16/16 Invited Speaker at ACS Bike-A-Thon Awards Dinner, Crowne Plaza, Cherry Hill, NJ
5/19/17 Invited Speaker at ACS Wissahickon Relay for Life event, Upper Dublin High School, Fort Washington, Philadelphia, PA
10/17 ACS Real Men Wear Pink Campaign, Philadelphia, PA
10/18 ACS Real Men Wear Pink Campaign, Philadelphia, PA
11/15/19 "Advances in Cancer Research: From Rhode Island to the World" American Cancer Society Cancer Action Network; 6th Annual Rhode Island Research Breakfast, Roger Williams Park Casino, Providence, RI
5/21 The Maryellen Goodwin Colorectal Cancer Screening Bill was signed into law by Rhode Island Governor Daniel McKee (I testified several times including the year of passage)
11/12/21 "Cancer Research in Rhode Island" ACSCAN-RI 8th Annual Research Breakfast, Providence Marriott Downtown. Also the Cancer Center at Brown University was a Diamond Sponsor
1/22 Recommendation to State of Rhode Island to support Legorreta Cancer Center at Brown University ($374M: $24M for 40,000 sq ft space renovation; $150M for new Cancer Research building; $20M per year for 10 years in Cancer Center research support, renewable)
3/22 Requested issued Proclamation from the State of Rhode Island announcing that March 2022 is Colorectal Cancer Awareness Month
2022 Partnered with ACSCAN-RI to pass "Pharmacy Redistribution Bill" in Rhode Island
2022 Partnered with ACSCAN-RI to pass "Biomarker Testing Bill" in Rhode Island
10/22 "Update on Cancer Research and Legorreta Cancer Center ACSCAN-RI 9th Annual Research Breakfast; The Legorreta Cancer Center sponsored the event
11/22 "Tips for success in starting a new academic lab" 2022 ACS Jiler Conference Career Development Session
2/23 Rhode Island Governor's Proclamation of March as Colorectal Cancer Awareness Month
2023-2024 Various Cancer Center Community Events, Advocacy at RI State House, ACS Events

Past Laboratory Trainees

Postdoctoral:	Mikhail Blagosklonny, MD, PhD, Associate Professor, Dept. of Medicine, NY Medical College	1995-97
	2005- Senior Scientist at Ordway Research Institute	
	2009- Professor, Roswell Park Cancer Institute	
	Editor-in-Chief, Cell Cycle	
	Yi-Xin Zeng, MD, PhD, Director, Cancer Research Institute and Cancer Center, Sun Yat Sen University, Guangzhou, China	1995-97
	President, Sun Yat Sen University	
	Editor-in-Chief, Chinese Journal of Cancer	
	Lawton Shick, MD, Assistant Professor, Department of Medicine (GI), University of Massachusetts	1995-97

Kumar Somasundaram, DVM, PhD, Assistant Professor, Indian Institute of Science	1995-99
2006- Associate Professor, Microbiology, IIS	
2012- Professor, Indian Institute of Science	
Gen Sheng Wu, MD, PhD, Assistant Professor, Karmanos Cancer Center, Wayne State University	1995-99
2005- Associate Professor	
2016- Professor	
Hui Tian, MD, PhD, Postdoctoral Researcher, Dept. of Radiation Oncology, Georgetown University	1997-98
Michael J. Fisher, MD, Assistant Professor, Children's Hospital of Philadelphia	1998-00
Shi-Qiong Xu, MD, PhD, Staff scientist at Jefferson	1998-00
Rishu Takimoto, MD, PhD, Assistant Professor, Sapporo Medical University	1998-01
Kunhong Kim, MD, PhD, Associate Professor, Yonsei Medical University, Korea	1998-01
Timothy K. MacLachlan, PhD, Senior Research Scientist, CuraGen Corporation, Branford, CT	1998-02
2005- Senior scientist at Genzyme	
2010- Director, Novartis Institute for Biomedical Research	
Dipa Bhaumik, PhD; Scientist in Campisi Lab	2001-03
Paul G. Corn, MD, PhD (Instructor in Hem/Onc; K08 awarded 9/03); Assistant Professor, Department of GU Medical Oncology, MD Anderson Cancer Center	2000-04
Peiwen Fei, M.D. Ph.D.; Staff scientist at NIH	2001-04
2005- Assistant professor, Mayo Clinic, MN	
2010- Associate Professor, Univ. of Hawaii, HI	
2017- Professor, U. Hawaii	
Bipin C. Dash, PhD; Staff Scientist, Thomas Jefferson Univ.	1999-05
M. Stacey Ricci, ScD; FDA fellowship	1999-05
2007- Pharm/Tox Reviewer, Division of Biologic Oncology products, Office of Oncology Drug Products, Office of New Drugs, CDER, FDA	
Shulin Wang, MD PhD; 2007- Professor, Institute of Genetics, School of Life Sciences, Fudan University	2002-05
John Plastaras, MD PhD; Radiation Oncology Resident, Holman Pathway, U. Penn	2004-06

2007 Instructor in Radiation Oncology, U. Penn	
2008- Assistant Professor, Radiation Oncology, U. Penn	
Laura Rozan, PhD; Senior Consultant at Navigant Consulting	2003-06
2012 Account Director, Oncology Franchise, ImpactRx	
Kazuhiro Ogi, MD PhD; Faculty at Sapporo Medical University	2005-07
Akiva Mintz, MD PhD; Nuclear Medicine Fellowship at Penn	2005-07
2008- Assistant Professor, Wake Forest University	
2017- Head, Nuclear Medicine, Columbia University	
Jay Dorsey, MD PhD; Radiation Oncology Residency at Penn	2005-07
2008- Assistant Professor, Radiation Oncology, U. Penn	
2016- Associate Professor, Rad Onc, Penn	
Paul C. Tumeh, MD; Dermatology Residency at UCLA, Clinical Instructor at UCLA	2006-07
Seok-Hyun Kim, MD PhD; Faculty Investigator Position at National Cancer Center, Korea	2001-07
Kageaki Kuribayashi, MD PhD; Faculty position at Sapporo Medical University	2005-07
Kimberly Scata, Ph.D.; Scientific Managing Editor, Cancer Biology and Therapy, Landes BioScience	2002-07
Joe Ackerman, PhD; Associate Manager, Business Integration, Merck	2005-08
2008 Associate Director, Merck Research Labs, Financial Planning & Analysis at Merck	
Xiaobing Tian, PhD; Research Fellow, Penn Radiati Oncology	2006-08
Arunasalam Navaraj, PhD; Post-doctoral Scientist,	2003-08
India	
Elizabeth Matthew, PhD; Post-doctoral Scientist	2003-08
Wensheng Yang, PhD; Research Scientist, Dept. of Radiation Oncology, U. Penn	2003-09
Lori S. Hart, PhD: Research Associate, Dept. of	2006-10
Radiation Oncology, U. Penn	
2012 Scientist in John Maris' Group, Children's	
Hospital of Philadelphia	

Fang Chen, PhD; Technical Specialist, Microarray Facility, U. Penn	2009-10
Wenge Wang, MD, PhD; Internal Medicine Residency; Assistant Professor, City of Hope	2001-10
Niklas Finnberg, PhD; Assistant Research Professo	2003-10
Hematology-Oncology, Penn State Hershey Cancer Institute	
Nathan Dolloff, PhD; Assistant Research Professor, Hematology-Oncology, Penn State Hershey Cancer Institute; Assistant Professor, MUSC 2014	2007-11
Kristi Peters, PhD; Staff Scientist	2010-13
Arunasalam Navaraj, DVM, PhD	2010-13
Roslyn N. Crowder, PhD; Assistant Professor of Biology, Stetson University	2008-13
Bo Hong, PhD; post-doc, NIH, NHGRI	2010-13
Avisnata Das, MD; Physician, India	2010-13
Joshua Allen, PhD; Director of Development Oncoceutics	2012-13
Noel Warfel, PhD; Faculty, MUSC; U. Arizona	2011-13
Peter van den Heuvel, PhD; Scientist at Vironika	2012-13
Junaid Abdulghani, MD PhD; MSL at Jansen	2007-14
Bora Lim, MD; Faculty, Breast Med Onc, MDACC	2012-14
Mala Talekar, MD; Staff, CHOP, Philadelphia; GSK	2012-14
Niklas Finnberg, PhD; industry, Sweden	2010-17
Leah Kline, PhD; AACR/SU2C Grant Program	2012-17
Avital Lev, PhD; Assoc Editor, Cancer Discovery	2016-18
Jocelyn Ray, MD/PhD; GYN-ONC resident FCCC	2018-20
Fabio Tavora, MD, PhD; Pathologist, Brazil	2019
Ilyas Sahin, MD; Hem-Onc Fellow, Brown; Faculty, University of Florida	2019-20
Isacco Ferrarini, MD, Oncologist, Italy	2019-20
Robyn Borsuk, MD: Pediatric Hem-Onc Fellow Faculty, Neuro-oncology at NYU	2019-21
Joshua Honeyman, MD (Assistant Professor) MSKCC faculty	2019-22
Weni Chang, MD (Assistant Professor)	2019-22
Cassandra Parker, MD (Surgery Resident)	2019-21
Anna Louie, MD (Surgery Resident)	2020-22

	Duke University	
Predoctoral:	Kyran O. Mitchell (MD, PhD Student), University of Pennsylvania School of Medicine; Resident in Surgery, Brigham and Women's Hospital (03-08)	1996-00
	Raymond D. Meng (MD, PhD Student) Resident, Department of Medicine, Duke University (01-04); MSKCC Hem/Onc Fellowship 2004 (Chief fellow '05-'06)	1997-00
	2007 Assistant Attending Physician, MSKCC	
	2011 Assistant Medical Director, Early Clinical	
	Development, Genentech	
	Nesrin Ozoren (PhD, Biology) Post-doc with Gabriel Nunez, University of Michigan	1998-02
	2005- Assistant Professor, Molecular Biology and Genetics, Bogazici University, Istanbul, Turkey	
	2008- Associate Professor, Bogazici University	
	Joanna K. Sax (Cell and Molecular Biology); in law school at U. Penn	2000-03
	2006- Legal Associate, Morgan Lewis & Bockius, LLP, San Francisco	
	2009- Faculty, California Western Law School	
	E. Robert McDonald, III (Cell and Molecular Biology); post-doc with Steve Elledge at Harvard	1996-03
	2009 Scientist, Novartis Institutes for BioMedical Research; Oncology, Drug Discovery I	
	Timothy F. Burns (MD, PhD Student);	1997-03
	2005 Medical residency at Johns Hopkins	
	2008 Oncology Fellowship at Johns Hopkins	
	2012 Assistant Professor, University of Pittsburgh Medical Center and Cancer Institute	
	Zhaoyu Jin (Ph.D. in Pharmacology); post-doc with	1999-05
	Avi Ashkenazi at Genentech	
	2009- Scientist, Genentech	
	Jue Judy Liu (Undergraduate Penn Vagelos Schola Graduate admission to Harvard	2005-07
	Robyn T. Sussman (B.S.); Graduate admission to	2006-07
	Thomas Jefferson University	
	Patrick A. Mayes (Ph.D. in Pharmacology); post-doc with John Maris at Children's Hospital of Philadelphi	2006-09
	2010 Principal Scientist, GSK	
	2011 Investigator, Glaxosmithkline	
	Luv Patel (Penn undegraduate Vagelos Scholar);	2007-10

Medical Student at Harvard Medical School	
Lanlan Zhou (Ph.D. in Bioengineering at Penn); Pos doc in El-Deiry Lab at Penn State	2007-10
Joshua E. Allen (Ph.D. in Biochem & Mol Biol at Univ. of Pennsylvania)	2009-12
Jean-Nicolas Gallant (MSTP Program, Vanderbilt)	2010-12
Varun Prabhu (Ph.D. in Molecular Medicine at Penn State); Associate Director at Oncoceutics	2011-16
Safoora Deihimi (MS at Drexel)	2015-17
Liz Hernandez (MS at Penn State)	2013-17
Paulo Roberto Del Valle (visiting student, Brazil)	2016-17
Prashanth Gokare (Ph.D., Penn State); post-doc in Joshi Lab at Yale University School of Medicine	2012-17
Jessica Wagner (Ph.D. from Temple); post-doc at St. Jude Children's Research Hospital	2014-18
Amriti Lulla (Ph.D. from Penn State); post-doc in Keyomarsi Lab at MD Anderson Cancer Center	2014-18
Marie Ralff (MD/PhD student Tample/FCCC)	2015-19
Aakash Jhaveri (Masters in Biotechnology at Brown University); MD/PhD program at Jefferson	2019-20
Liz Hernandez Borrero (PhD at Brown Univ); Fellow at Johnson & Johnson	2017-21
Shuai Zhao (PhD at Brown University)	2014-21
Young Lee (Brown Undergraduate); industry	2019-22
Yiqun Zhang, MD, PhD (visiting scientist from China	2019-23
Kelsey Huntington (PhD student, Pathobiology)	2020-23
Laura Wu (Masters in Biotechnology student)	2020-22
Jared Mompoint (Masters in Biotechnology student)	2020-23
Andrew George (Brown Undergraduate)	2020-23
Francesca Di Cristofano (Brown Undergraduate)	2020-23
Anna Oschner (Brown Medical Student)	2020-22
Taylor Arnoff (Brown Medical Student)	2020-22
Lindsey Carlsen (PhD student, Pathobiology)	2020-23
Ujwal Punyamurtula (Masters Student)	2021-22
Tej Tummala (Brown Undergraduate)	2022-23
Thomas Brown (Brown Undergraduate)	2022-23
Vida Tajiknia, MD (Visiting Scientist from Iran)	2022-23
Jun Zhang, MD (Visiting Scientist from China)	2023

Current Laboratory Mentees:

Shengliang Zhang, MD, PhD (Assistant Professor)	2019-
Lanlan Zhou, MD, PhD (Assistant Professor)	2019-
Xiaobing Tian, PhD (Assistant Professor)	2019-
Alexander Raufi, MD (Assistant Professor)	2019-
Ash Uruchurtu (PhD Student, Pathobiology)	2021-
Jillian Strandberg (Masters Student)	2021-
Maryam Ghandali, MD (Visiting Scientist from Iran)	2022-
Dinara Ryspayeva, MD, PhD (Visiting Assistant Professor from Ukraine)	2023-
Nataliia Verovkina, MD, PhD (Visiting Assistant Professor from Ukraine)	2023-

Lectures by Invitation:

June, 1992	"Biochemical Clues to p53 Function." FASEB Summer Research Conference on Transcriptional Regulation: Differentiation, Development and Disease. Copper Mountain, CO
Mar, 1994	"Identification of WAF1, a Potential Mediator of p53 Tumor Suppression." American Association for Cancer Research, San Francisco, CA
Apr, 1994	"p53 Regulation of the Cell Cycle." Harvard Medical School, Departments of Pathology and Cancer Center, MGH Charlestown, Boston, MA
Nov, 1994	"Discovery and Cell Cycle Regulation by WAF1." National Cancer Institute Cell Cycle Interest Group, Bethesda, MD
Mar, 1995	"Molecular Basis of p53-Mediated Cell Cycle Arrest." 21st Annual Earl Sutherland Memorial Lecture, University of Miami School of Medicine, Miami, FL
Apr, 1995	"Topological Dysregulation and Altered Expression of the Cell Cycle Inhibitor p21 (WAF1) in Colorectal Tumorigenesis." Howard Hughes Medical Institute (HHMI) Scientific Meeting on Molecular and Genetic Approaches to Clinical Disorders and Diagnosis, Chevy Chase, MD
June, 1995	"Molecular Basis of p53 Mediated Cell Cycle Arrest." The Children's Hospital of Philadelphia, Philadelphia, PA
Sept., 1995	"Pathways of Cell Cycle Regulation by $p21^{WAF1/CIP1}$." Ohio State University, Department of Radiation Oncology and Cancer Center, Columbus, OH
Sept., 1995	"Pathways of Cell Growth Control by p53 and p21." Hematology-Oncology Research Seminar, University of Pennsylvania School of Medicine.
Jan., 1996	"Cell Cycle Genes" The Wistar Institute Melanoma Group, Philadelphia, PA
Jan., 1996	"Role of p53/p21 in Cell Cycle Control and Tumorigenesis." The University of Illinois College of Medicine at Chicago, Department of Genetics, Chicago, IL
April, 1996	"Biological and Clinical Importance of the p53 Tumor Suppressor Gene in Oncology." Category 1 CME Conference: An Update on Genetics in the Cause and Treatment of Malignancies. Sacred Heart Hospital, Allentown, PA
May, 1996	"The p53 Tumor Suppressor Gene: Bench to Bedside." 32nd Annual Meeting of the American Society of Clinical Oncology, Educational Symposium "Cancer Genes: From Discovery to Clinical Application," Philadelphia, PA
June, 1996	"Molecular Defects in Colorectal Tumors." Cancer Gene Therapy Symposium, Royal Postgraduate Medical School, University of London, London, UK
Sept., 1996	"Truncated p21 Bypass of p53 Resistance in the Therapy of Human Cancer."

1996 Institute for Human Gene Therapy Retreat, Absecon, NJ

Sept., 1996 "Regulation of $p21^{WAF1/CIP1}$ Expression and Growth Arrest in Normal and Neoplastic States." HHMI Scientific Meeting on Oncogenesis and the Regulation of the Cell Cycle, Chevy Chase, MD

Oct., 1996 "CDK Inhibitors and their Role in Cancer." 1996 Wistar Institute Cancer Course.

Nov., 1996 "p53, p21 and Cell Cycle Control in Normal and Cancer Cells." 3rd Annual Philadelphia-Princeton Cancer Symposium, Philadelphia, PA

Nov., 1996 "Role of p53 in Cancer Suppression and Chemotherapeutic Drug Resistance." Medical Grand Rounds, Hospital of University of Pennsylvania, Philadelphia, PA

Dec., 1996 "Cell Cycle Regulation by p21(WAF1/CIP1) in Normal and Neoplastic States." University of Texas MD Anderson Cancer Center, Houston, TX

January, 1997 "Adriamycin-Induced Genes" - Cell Cycle and Radiation Oncology Session, NCI Workshop on Molecular Biology to Radiation Oncology: A Model for Translational Research, Bethesda, MD

April, 1997 "Insights into p53-Dependent Apoptosis and Chemosensitivity" - HHMI Scientific Meeting on The Cell Cycle and its Control, Chevy Chase, MD

April, 1997 "Insights into Growth Suppression by p53 and p21" - 2nd Annual Symposium on Molecular Biology of Normal Development, Malignancy and its Suppression, The Fels Institute, Philadelphia, PA

April, 1997 "Cell Cycle Inhibition by BRCA1 Requires p21" - Symposium on Breast Cancer Genes, 88th AACR Annual Meeting, San Diego, CA

April, 1997 "Correlations of p53 and Chemoresistance" - Cambridge Healthtech Institute Meeting on New Cancer Strategies: p53, Washington, DC

May, 1997 "p53 as a Cell Cycle Target for Chemosensitivity and Drug Resistance in Cancer" - Radiation Research Society Meeting, Providence, RI

June, 1997 "Cancer Cell Growth Regulation by p53 and BRCA1" - Grand Rounds, Department of Pathology, Jefferson Medical College, Philadelphia, PA

July, 1997 "Insights into p53 and BRCA1-Dependent Tumor Suppression" - 1997 Gordon Research Conference on The Cell Cycle as a Target for Chemotherapy, Colby Sawyer College, NH

Aug, 1997 "Cell Cycle Control in Normal and Neoplastic Intestinal Cells" - 1997 FASEB Summer Research Conference on Gastrointestinal Track VII: Epithelial Cell Regulation and Differentiation, Copper Mountain, CO

Oct, 1997 "Insights into BRCA1-Dependent Tumor Suppression" - Meeting on The Mouse in Mammary Carcinogenesis Research, The Jackson Laboratory, Bar Harbor, ME

Oct, 1997 "p53 and BRCA1 Dependent Pathways of Growth Arrest and Apoptosis" - Kimmel Cancer Center Grand Rounds, Thomas Jefferson University, Philadelphia, PA

Oct, 1997 "Role of p53 and p21 in Cancer Suppression and Chemotherapeutic Drug Resistance" - 2nd World Congress on Advances in Oncology, Athens, Greece.

Nov, 1997 "Pathways of Cell Death" - Wistar Institute, Philadelphia, PA

Dec, 1997 "Targeting the p53 Pathway" - NATO Advanced Research Workshop in Signal Transduction, Tampa, FL

Jan, 1998 "Pathways of Growth Arrest and Apoptosis in Tumor Suppression" - Chicago Medical School, Chicago, Illinois.

Feb, 1998 "Insights into Growth Control in Tumor Suppression" - USC Cancer Center, Los Angeles, CA

Feb, 1998 "New Insights into Cancer Cell Death After Chemotherapy and Radiation: Involvement of p53 and Death Receptors" - The First Symposium on Biology and Molecular Genetics Targets and the Development of New Treatments for Colorectal Carcinomas, Memorial Sloan Kettering Cancer Center, New York, NY

Mar, 1998 "Role of TRAIL Death Receptors in p53-Dependent Tumor Suppression and Chemosensitivity" - Parke-Davis, Ann Arbor, MI

Mar, 1998 "Mechanisms of Growth Arrest and Apoptosis in Tumor Suppression" - Department of Radiation Oncology, Jefferson Medical College, Philadelphia, PA

Mar, 1998 "New Insights into p53-Dependent Apoptosis and Tumor Suppression" - Inaugural Cancer Investigator Series, The Children's Hospital of Philadelphia, PA

Mar, 1998 "Pathways of Growth Arrest and Apoptosis in Tumor Suppression," Cytovia, Irvine, CA

Apr, 1998 "New Insights into p53-Dependent Apoptosis and Tumor Suppression" - Laboratory of Molecular Pharmacology, NCI, Bethesda, MD

May, 1998 "p53-Dependent Apoptosis" - 9th International p53 Workshop, Crete, Greece

May, 1998 "KILLER/DR5" - 3rd Intl Cancer Gene Therapy Meeting, Imperial College, London, UK

Aug, 1998 "Involvement of Cell Death Receptors in p53-Dependent Growth Suppression" - Gordon Research Conference on Cancer, Newport, RI

Sept, 1998 "Control of TRAIL Death Receptor Signaling by p53: A Novel Pathway of p53-Dependent Tumor Suppression and Chemosensitivity" - Cambridge Healthtech Institute p53 Conference, Washington, D.C.

Sept, 1998 "Cancer: An Overview of the Disease" - Guest speaker and Editor for Searle's Comprehensive Educational Program in Oncology, Skokie, IL

Oct, 1998 "Control of TRAIL Death Receptor Signaling by p53" - HHMI Scientific Meeting on The Analysis of Cell Growth and Cell Death, Chevy Chase, MD

Oct, 1998 "Insights into the Mechanism of p53-Dependent Apoptosis and Chemosensitivity" - University of Pittsburgh Cancer Institute, Research Seminar Series, Pittsburgh, PA

Nov, 1998 "Involvement of Death Receptor Signaling in p53-Dependent Death" – Special Cancer Center Director's Seminar, Johns Hopkins Oncology Center, Baltimore, MD

Jan, 1999 "Role of p53 and Death Receptor Signaling Pathways in Chemo- and Radio-sensitivity" - American Society for Therapeutic Radiology and Oncology's 1st Molecular Biology Winter Teaching Course, New York, NY

Feb, 1999 Keynote Speaker, 25th Annual Eastern Student Research Forum, Miami, FL

Mar, 1999 "Activation of TRAIL Death Receptor Signaling by p53" - HHMI Scientific Meeting on Cancer and the Cell Cycle, Chevy Chase, MD

Mar, 1999 "Clues to the Mechanism of p53 and BRCA1-Dependent Tumor Suppression" - Brigham and Women's Hospital Department of Pathology, Harvard Medical School, Cambridge, MA

Apr, 1999 "p53 and Chemosensitivity" - Symposium on "Drug Resistance and Cell Cycle Gene Abnormalities" AACR 90th Annual Meeting, Philadelphia, PA

May, 1999 "Novel Insights into p53-Dependent Tumor Suppression" - Cancer Biology Seminar at University of Illinois, Chicago, IL

May, 1999 "Insights into p53 and BRCA1 Dependent Tumor Suppression" - Rockefeller University Strang Cancer Center, New York, NY

May, 1999 "Insights into p53 and BRCA1 Dependent Tumor Suppression" - Amgen, Toronto, Canada.

May, 1999 "Update on TRAIL Receptors/p53 and BRCA1/Gene Expression" - Legacies in Cancer Research, Symposium in honor of Bert Vogelstein's 50th birthday, Baltimore, MD

June, 1999 "Molecular Basis for p53-Dependent Apoptosis and Chemosensitivity" - Department of Radiation Oncology, Jefferson Medical College, Philadelphia, PA

June, 1999 "Novel Insights into p53-Dependent Tumor Suppression" - Cutaneous Biology Research Center, Massachusetts General Hospital, Harvard Medical School, Charlestown, MA

July, 1999 "p53 and TRAIL Receptor Signaling: Novel Insights for Gene Therapy" - International Society of Cancer Gene Therapy Meeting, London, UK

Aug, 1999 "p53, Death Receptors and Chemosensitivity" - Gordon Research Conference on Cancer, Newport, RI

Sept, 1999 "p53 and TRAIL Signaling Pathways: Novel Insights into Apoptosis and Chemosensitivity" - Seminars in Clinical Research at Rockefeller University, New York, NY

Oct, 1999 "Molecular Insights into the p53 and BRCA1 Pathways of Tumor Suppression" -

Keynote speaker, New Jersey Breast Cancer Symposium, Trenton, NJ

Oct, 1999 "Novel Insights into p53-dependent Apoptosis and Chemosensitivity" - Department of Pathology and Laboratory Medicine, Temple University Hospital, Philadelphia, PA

Jan. 19, 2000 "Insights into p53-Dependent Apoptosis and Chemosensitivity" - MCV Massey Cancer Center Research Seminar, Virginia Commonwealth University, Richmond, VA

Feb. 22, 2000 "Insights into p53 and TRAIL Apoptotic Signaling Pathways" - Department of Physiology, Jefferson Medical College, Philadelphia, PA

Mar 13, 2000 "p53 and TRAIL Apoptotic Signaling" - Department of Pathology, Columbia University School of Medicine, New York, NY

Mar 17, 2000 "p53 and TRAIL Apoptotic Signaling" - Laboratory of Experimental Immunology, DBS, NCI, NIH, Frederick, MD

Apr 8, 2000 "Tissue-Selective Utilization of p53-target Gene Activation During Apoptosis *in-vivo*" - 10th International p53 Workshop, Monterey, CA

May 2, 2000 "The Role of p53 and Downstream Genes in the Response to Genotoxic Stress" - Symposium on Signal Transduction Across the Spectrum: Comparison Between Ionizing and Non-Ionizing Radiation, 48th Radiation Research Society Annual Meeting, Albuquerque, NM

June 4, 2000 "p53 and TRAIL Apoptotic Signaling Pathways: Novel Insights for Cancer Gene Therapy" - American Society of Gene Therapy's 3rd Annual Meeting, Denver, CO

June 20, 2000 "Apoptotic Pathways and Drug Development for Cancer" - Cancer Genetics Seminar Series, The Children's Hospital of Philadelphia, PA

Sept. 12, 2000 "Anti-Cancer Drug Design Based on Tissue-Specific Apoptotic Pathways" - HHMI Scientific Meeting on "Cell Growth and Tumorigenesis" Chevy Chase, MD

Sept. 28, 2000 "p53/TRAIL-Dependent Apoptotic Pathways and Cancer Therapy" - Cell and Molecular Biology Graduate Group Annual Retreat, American College of Physicians, Philadelphia, PA

Oct. 20, 2000 "Overview of Pathways and Strategies to Selectively Kill Cancer Cells: Targeting p53 and Death Receptor Pathways" - Symposium in honor of Jack Little, Harvard Medical School, Boston, MA

Oct. 25, 2000 "Molecular Strategies to Selectively Kill Cancer Cells" - Roswell Park Cancer Institute, Buffalo, NY

Oct. 30, 2000 "Role of p53 and p53-interacting Gene Products in the Molecular Genetic Basis of Breast Cancer" - Conference on the Genetic and Molecular Biologic Basis of Breast Cancer, Grand Hyatt, New York, NY

Dec. 4, 2000 "Molecular Strategies to Selectively Kill Cancer Cells" - NIH/HHMI Cloister Program, Bethesda, MD

Dec. 11, 2000 "Molecular Strategies to Selectively Kill Cancer Cells" Department of Biology, HHMI Undergraduate Scholars Program, Temple University, Philadelphia, PA

Jan. 16, 2001 "Cancer Therapeutic Strategies Based on Death Signaling" - Fox Chase Cancer Center, Fox Chase, PA

Feb. 2, 2001 "Cancer Therapeutic Strategies Based on Death Signaling by p53 and Death Receptors" – Special Cancer Center Director's Seminar, University of Massachusetts, Worcester, MA

Feb. 22, 2001 "Cancer Therapeutic Strategies Based on Death Signaling" - Department of Pathology, UT Southwestern, Dallas, TX

Feb. 27, 2001 "Cancer Therapeutic Strategies Based on Death Signaling" - Ruttenberg Cancer Center Seminar Series, Mount Sinai, New York, NY

March 14, 2001 "Cancer Therapeutic Strategies Based on Death Signaling" - Wistar Institute, Philadelphia, PA

April 3, 2001 "TRAIL Pathway in Esophageal Cancer" - Session on Cell Cycle, Senescence and Apoptosis, "Molecular Basis for Neoplasia in the Digestive Tract" - Center for Molecular Studies in Digestive and Liver Disease 2nd Annual Conference and Retreat, Bryn Mawr, PA

April 17, 2001	"BRCA1-Dependent Regulation of a Unique p53 Response Leading to DNA Repair and Survival" - NCI Workshop on BRCA1 Function in Cell Growth and Tumorigenesis, Rockville, MD
May 31, 2001	Invited Speaker - Educational Session on Cell Cycle Control, Annual Meeting of the American Society for Gene Therapy, Seattle, WA
July 12, 2001	"Enhancing Cancer Apoptosis in Therapeutic Design" - Tenth International Conference on Cancer Gene Therapy. The Cumberland Hotel, Marble Arch, London, UK
July 18, 2001	"Identification of CARP: A Novel Caspase 8 and 10-linteracting and Degrading Protein Which is Cleaved During Apoptosis" - Gordon Research Conference on Apoptosis, Oxford, UK (Robert McDonald, my graduate student, gave the oral presentation in my place).
July 25, 2001	"p53, TRAIL and BRCA1 Pathways in Drug Design" - Schering-Plough Research Institute, NJ
9/01-1/02	A number of invited talks and planned meetings were cancelled because of September 11, 2001 events.
Feb. 14, 2002	"TRAIL Receptor Signaling, p53 and Cancer Therapy" - AACR conference on Apoptosis and Cancer: Basic Mechanisms and Therapeutic Opportunities in the Post-Genomic Era, Waikoloa, HI
Mar 5, 2002	"Novel p53 Transcriptional Targets in Apoptosis and Chemosensitivity" - HHMI meeting on "Control of cell growth and cell death," Chevy Chase, MD
Mar 12, 2002	"p53 Pathways Leading to Apoptosis and Chemosensitivity" - MD Anderson Cancer Center, Houston, TX
Apr 6, 2002	"Targeting Cell Cycle Checkpoints in Cancer Therapy" - Introductory lecture in the Educational session on Checkpoint Responses in Therapeutic Intervention, 2002 AACR meeting, San Francisco, CA
Apr 6, 2002	"Transcriptional Responses in Tumor Suppression: Update on p53 and BRCA1" - Educational session on Transcriptional regulation and gene expression, 2002 AACR meeting, San Francisco, CA
Apr 28, 2002	"p53 Targets in Apoptosis and Chemosensitivity" - 1st Guangzhou International Symposium on Oncology, Guangzhou, China
May 16, 2002	"p53 downstream targets, tissue specificity and chemosensitivity" Invited Speaker and Late Breaking Session Chair, 11th International p53 meeting Barcelona, Spain
July 12, 2002	"p53, Chemosensitivity, and Cancer Therapy" Invited Speaker, Pfizer, Groton, CT
Sept. 9, 2002	"p53 Target Genes, Tissue Specificity and Chemo/Radiosensitivity" Dept. of Radiation Oncology, Jefferson Medical College
Nov. 10, 2002	"DNA Damage Induced Responses" - 3rd International Conference on Mechanisms of Cell Death and Disease: Advances in Therapeutic Intervention, Caesar Park Hotel, Sintra, Portugal (My student Tim Burns spoke in my place).
Mar 5, 2003	"Understanding and Reversing Therapeutic Resistance in Cancer" Special Seminar, Kimmel Cancer Center at Thomas Jefferson University
Apr 2, 2003	"Reversing Anti-Cancer Therapeutic Resistance" Howard Hughes Medical Institute, Chevy Chase, MD
Apr 23, 2003	"Understanding and Reversing Therapeutic Resistance in Cancer" Cancer Biology Course, The Johns Hopkins Kimmel Cancer Center, Baltimore, MD
Apr 28, 2003	"Understanding and Reversing Therapeutic Resistance in Cancer" Apoptosis, Cell Cycle and Signaling Seminar, MD Anderson Cancer Center, Houston, TX
Oct. 20, 2003	"Reversing anti-cancer therapeutic resistance" National Cancer Center, Tokyo, Japan
Oct. 21, 2003	"Reversing anti-cancer therapeutic resistance" Sapporo Medical University, Sapporo, Japan
Oct. 23, 2003	"Reversing anti-cancer therapeutic resistance" Special Lecture on Molecular Targeting, Japan Society of Clinical Oncology meeting, Sapporo, Japan
Dec. 3, 2003	"Reversing anti-cancer therapeutic resistance" University of Alabama in

Birmingham, Birmingham, AL

Feb. 10, 2004 "Reversing anti-cancer therapeutic resistance" Department of Oncology, Montefiore/Albert Einstein Cancer Center

Feb. 20, 2004 "The p53 pathway in chemo- and radiosensitivity" AACR Special Conference "Radiation Biology and Cancer: From Molecular Responses to the Clinic," Dana Point, CA

Mar 1, 2004 "Modulating p53 and TRAIL pathways to reverse therapeutic resistance" University of Arizona Cancer Center, Tuscon, AZ

Mar 12, 2004 "Understanding and reversing drug resistance in cancer" Hollings Cancer Center Annual Spring Research Symposium entitled "Gene Regulation in Cancer" Charlestown, SC

June 28, 2004 "p53/TRAIL apoptotic pathways: Understanding, imaging and reversing defects in cancer." Invited visit to Kimmel Cancer Center at Johns Hopkins, Laboratory of Molecular Genetics (Vogelstein /Kinzler), Baltimore, MD

Aug 27, 2004 Invited speaker at Winship Cancer Institute, Emory University, Atlanta, GA "p53/TRAIL pathways: Understanding, imaging and reversing defects in cancer."

Sept 20, 2004 Invited speaker at NIH Workshop in Diagnostic Imaging: From Bench-to-Bedside

Sept 24, 2004 Invitation to speak at the Mayo Clinic Department of Molecular Pharmacology Seminar Series, Minnesota "p53/TRAIL apoptotic pathways: Understanding, imaging and reversing defects in cancer."

Sept 29, 2004 Invitation to speak at Johns Hopkins Kimmel Cancer Center Translational Research Seminar Series, Baltimore, Maryland "p53/TRAIL apoptotic pathways: Understanding, imaging and reversing defects in cancer."

Oct 4-5, 2004 Invitation to speak at AGA/NIH Symposium on Imaging and Advanced Technologies for Detection of GI Neoplasias, NIH, Bethesda, Maryland

Oct 6, 2004 Invitation to speak at the Cancer Institute of New Jersey "p53/TRAIL apoptotic pathways: Understanding, imaging and reversing defects in cancer."

Oct 8, 2004 "p53/TRAIL Apoptotic Pathways: Understanding, Imaging and Reversing Defects in Cancer" Department of Pathology Grand Rounds, MD Anderson Cancer Center, Houston, TX

Oct 14-17, 2004 Invitation to speak at the Optical Society of America Annual Meeting, "Frontiers in Optics," Rochester, NY

Nov 9, 2004 "Bioluminescent Imaging Modulation of Tumor Growth and Therapy" International Conference on Tumor Progression and Therapeutic Resistance, Philadelphia

Dec 3, 2004 Lecture in Amsterdam, Netherlands at Apoptosis Course (Netherlands Cancer Institute)

Dec 14, 2004 Invited speaker at UT Southwestern, Dallas, TX (Dept. of Cell Biology)

Apr 19, 2005 "p53/TRAIL pathways: Understanding, imaging and reversing defects in cancer" Speaker and annual Award Recipient at Dean's Lecture Series, Georgetown University Medical Center, Washington D.C.

May 17, 2005 AGA Symposium Speaker "Imaging tumor progression and therapeutic response" DDW National Meeting, Chicago, IL

June 21, 2005 "p53/TRAIL signaling: Understanding, imaging and reversing defects in cancer" Children's Hospital of Philadelphia

July 11, 2005 Invitation to speak at the 13th Annual SPORE Investigator's Workshop Thematic Poster Discussion Session on Imaging "Imaging Tumor Growth and Therapeutic Response"

July 20, 2005 "Targeting p53 responses in p53-deficient cells" Speaker and Session Chair, Molecular Therapeutics of Cancer Gordon Conference, Colby Sawyer College, New London, New Hampshire

Sept 20, 2005 "Imaging Tumor Progression and Therapeutic Response" 2nd International Conference on Tumor Progression and Therapeutic Resistance, Burlington, MA

Sept 28, 2005 "p53/TRAIL pathways: Signaling and drug development" Wistar Institute,

Philadelphia, PA

Sept 30, 2005 "p53/TRAIL pathways: Signaling and therapeutic development" UMDNJ Cancer Center, Newark, NJ

Oct 19, 2005 "p53/TRAIL pathways: Signaling, imaging and drug development" Department of Biological Chemistry, UC Irvine.

Oct 21, 2005 "The p53 Network as a Therapeutic Target in Colon Cancer" Invited Speaker, AACR Special Conference on Colorectal Cancer: Molecular Pathways and Therapies, Dana Point, CA

Nov 7, 2005 "Optical imaging and animal models in drug discovery" NCI/NTROI Workshop on Optical Imaging for Drug Discovery, Therapeutic Response, and Early Detection, Bethesda, MD

Nov 28, 2005 "Molecular Imaging in Preclinical Models" Session on Optical Methods for cancer detection and therapeutic monitoring, RSNA 91st Scientific Assembly and Annual Meeting, Chicago, IL

Nov 30, 2005 "p53/TRAIL Pathways: Signaling and Therapeutic Development" Department of Molecular and Cellular Oncology, MD Anderson Cancer Center, Houston, TX

Jan 18, 2006 "p53/TRAIL: Signaling, Imaging and Therapeutics" Case Comprehensive Cancer Center, Cleveland Ohio

Mar 19, 2006 "Network for Translational Research: Optical Imaging" Plenary Session, Optical Society of America 2006 Biomedical Optics Conference, Ft. Lauderdale, FL

Apr 1, 2006 "The promise of optical technologies for measuring tumor response in cancer therapy trials" Educational Session on Molecular Imaging in Development of Novel Therapies, 97th AACR Annual Meeting, Washington, D.C.

May 11, 2006 "Targeting Apoptosis for Therapy of Colon Cancer" 8th Annual Center for Molecular Studies in Digestive and Liver Diseases Symposium, Philadelphia, PA

May 24, 2006 "Insights into stability and therapeutic manipulation of the effector function of p53" 13th International p53 Workshop, New York, NY

July 18, 2006 "Molecular Imaging for Drug Discovery and Development" 14th Annual SPORE Investigator meeting, Baltimore, MD

Sept 10, 2006 "Optical Imaging Approaches for Molecularly-Targeted Drug Discovery and Development" 2nd Annual American Academy of Nanomedicine Meeting, National Academy of Sciences, Washington, D.C.

Sept 14, 2006 "Manipulation of p53/TRAIL-induced Apoptosis" Genentech, South San Francisco, CA

Oct 3, 2006 "Optical Imaging Approaches for Molecularly-Targeted Drug Discovery and Development" George and Mary J. Hamman Lectureship, MD Anderson Cancer Center, Houston, TX

Oct 7, 2006 "Combination of Apo2L/TRAIL and sorafenib" in "Novel Cancer Therapies: Triggering Apoptosis, Thought Leader Summit sponsored by Genentech, Scottsdale, AZ

Oct 24, 2006 "Imaging Approaches for Cancer Drug Development" 3rd International Conference on Tumor Progression and Therapeutic Resistance, Baltimore, MD

Oct 30, 2006 Invited Speaker, NCI Network for Translational Research in Optical Imaging Annual Workshop, Washington DC

Nov 11, 2006 Invited Speaker, 3rd Annual Esophageal Cancer & Barrett's Metaplasia Research Summit, Las Vegas, NV

Nov 13, 2006 "Optical Imaging for Anticancer Drug Discovery and Development" Cambridge Healthtech Institute's 3rd Annual meeting on Fluorescent Proteins in Drug Development, La Jolla, CA

Nov 28, 2006 "Modulation of p53/TRAIL-induced Apoptosis" Oncological Sciences Lecture, Mount Sinai School of Medicine, New York, NY

Dec 8, 2006 "Sensitizing TRAIL-Resistant Tumors" Signaling Transduction Modulators in Cancer Therapy Biosymposium, Denver, Colorado

Jan 18, 2007 "Imaging and Targeting Apoptotic Pathways in Therapeutic Development" Thomas Jefferson University Cancer Center and Department of Radiation

Oncology, Philadelphia, PA

Feb 1, 2007 "Imaging and Therapeutic Targeting of Apoptotic Cell Death in GI Cancer" Dept of Pathology Seminar Series, MD Anderson Cancer Center, Houston, TX

Feb 8, 2007 "Modeling Tumor Progression and Developing Novel Therapies for Esophagus Cancer", AACR Special Conference on Advances and Challenges in Aerodigestive Epithelial Cancer: Genetics, Diagnosis and Therapy, Charleston, South Carolina

Mar 13, 2007 "Imaging and Therapeutic Targeting of Apoptotic Cell Death in GI Cancer," Winship Cancer Institute at Emory, Drug Development and Pharmacogenomics Academy Series, Atlanta, Georgia

Mar 21, 2007 "Imaging and Therapeutic Targeting of Apoptotic Cell Death in GI Cancer," UAB Cancer Center, Birmingham, Alabama

Apr 27, 2007 "Imaging and Therapeutic Targeting of Cell Death in GI Cancer," Grand Rounds at Moffitt Cancer Center, Tampa, Florida

June 2, 2007 Discussant "Developmental Therapeutics: Molecular Therapeutics" Poster Discussion Session at ASCO Annual Meeting, Chicago, IL; Slides and audio of oral presentation available at ASCO 2007 Annual Meeting web site

June 11, 2007 "Therapeutic Targeting of Cell Death Resistance in GI Cancer," Department of Cancer Biology, M.D. Anderson Cancer Center, Houston, TX

July 8, 2007 "Molecular Imaging and Drug Discovery in GI Cancer," 15th Annual SPORE Investigator's Meeting, Baltimore, MD

Oct 4, 2007 "Therapeutic Targeting of Cell Death Resistance in Cancer," Human Genome Sciences, Rockville, MD

Oct 9, 2007 "Modulation of Death Receptor Mediated Apoptosis," Formal Seminar at Burnham Institute for Medical Research, La Jolla, CA

Oct 12, 2007 "Modulation of Sensitivity & Imaging Therapeutic Response of Hypoxic Cancer Cells," Invited Speaker, 60th Annual Symposium on Cancer Research, MD Anderson Cancer Center, Houston, TX

Oct 29, 2007 "Network for Translational Research in Optical Imaging: Year 5," Speaker at NCI Network for Translational Research in Optical Imaging Annual Workshop, North Bethesda, MD

Jan 17, 2008 "Imaging of CSCs in Animal Models," Invited Speaker, NCI Workshop on Cancer Stem Cells, North Bethesda, MD

Feb 7, 2008 "Imaging Cancer Stem Cells in Animal Models," Abramson Comprehensive Cancer Center Radiation Biology Program Research Meeting, Philadelphia, PA

Mar 14, 2008 "Modulating Death Signaling for Therapeutic Gain in GI Cancer," New York Academy of Sciences Symposium on "Targeted Therapies for Gastrointestinal Cancer" New York, NY

Apr 12, 2008 Invited Speaker and Session Chair, AACR Annual Meeting Educational Session on "Cell Death and Autophagy," San Diego, CA

May 19, 2008 "Modulation of Death Receptor Signaling for Therapeutic Gain," TetraLogic Pharmaceuticals, Malvern, PA

May 28, 2008 "Modulation of Death Receptor Signaling for Therapeutic Gain," Kimmel Cancer Center Oncology Grand Rounds, Thomas Jefferson University, Philadelphia, PA

May 29, 2008 "Imaging the Tumor Microenvironment," Abramson Comprehensive Cancer Center Retreat on Hypoxia and the Tumor Microenvironment, Philadelphia, PA

July 23, 2008 "Modulation of Death Receptor Signaling for Therapeutic Gain," NYU Cancer Institute, New York, NY

Sept 5, 2008 "Modulation of Cell Death Signaling for Therapeutic Gain," American Cancer Society Site Visit, University of Pennsylvania School of Medicine, Philadelphia, PA

Sept 8, 2008 "Modulation of Cancer Stem Cell Death Signaling for Therapeutic Gain," NCI Center for Cancer Research, NIH, Bethesda, MD

Sept 15, 2008 "Modulation of Death Signaling for Therapeutic Gain", SUNY-Stony Brook Department of Molecular Genetics and Microbiology

Sept 22, 2008 "p53 Downstream Genes" Henle Symposium, Univ. of Pennsylvania

Sept 22, 2008 "Optical Imaging in Tumor Progression and Therapeutic Response in Preclinical Models," International AACR Meeting on Molecular Diagnostics in Cancer Therapeutic Development, Philadelphia, PA

Sept 23, 2008 "Imaging and Targeting Cancer Stem Cells" CTEP stem cell conference, NCI

Oct 1, 2008 "Modulation of Cell Death Signaling for Therapeutic Gain," University of Nebraska Medical Center, Omaha, NE

Oct 13, 2008 "Modulation of Cell Death Signaling for Therapeutic Gain," Indiana University Department of Biochemistry & Molecular Biology Seminar Series

Oct 17, 2008 "TRAIL Receptor Targeting," 7th International Symposium on Translational Research in Oncology, Huntington Beach, CA

Oct 28, 2008 "Targeting p53 Responses for Therapeutic Gain," 14th International p53 Workshop, Shanghai, China

Nov 11, 2008 "Taking Advantage of BRCA1 & p53 Mutants: Targeted Therapeutics," American Society of Human Genetics 58th Annual Meeting, Philadelphia, PA

Dec 17, 2008 "Modulating Cell Death Signaling for Therapeutic Gain," Herbert Irving Comprehensive Cancer Center, Columbia University, New York, NY

Feb 11, 2009 "Modulating Cell Death Signaling for Therapeutic Gain," Drexel University MD/PhD Program, Philadelphia, PA

Feb 13, 2009 "p53 in Cancer Biology, Cell Death, Molecular Imaging and Drug Development," Carcinogenesis and Cancer Biology Course, University of Kansas Cancer Center/Stowers Institute, Kansas City, KS

Feb 17, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Albert Einstein College of Medicine, Bronx, NY

Mar 16, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Joint MGH Cancer Center/Harvard Cutaneous Biology Research Center Seminar, Boston, MA

Mar 26, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Marie Lowe Seminar Series, Univ. of Pennsylvania Vet School, Philadelphia, PA

Apr 6, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Oregon Health Sciences University, Portland, OR

Apr 8, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Roswell Park Cancer Institute, Buffalo, NY

Apr 16, 2009 "Modulation of Death Receptor Signaling for Therapeutic Gain," Grand Rounds, Karmanos Cancer Institute, Detroit, MI

June 22, 2009 Invited Keynote Speaker "TRAIL Receptor Signaling and Therapeutics," Session on The Immune System, Inflammation and Cancer, BIT 2nd Annual World Cancer Congress, Beijing International Convention Center, Beijing, China

June 23, 2009 "Modulation of Cell Death Signaling for Cancer Therapy," PUMC Cancer Institute, Cancer Hospital Chinese Academy of Medical Sciences, Beijing, China

June 24, 2009 "Modulation of Cell Death Signaling for Cancer Therapy," Peking Union Medical College, Beijing, China

Sept 21, 2009 "Modulating Death Receptor Signaling for Cancer Therapy," Medical College of Wisconsin, Milwaukee, WI

Oct 15, 2009 "Modulating Death Receptor Signaling for Cancer Therapy," Penn State Hershey Cancer Institute, Hershey, PA

Nov 12, 2009 "Modulating Death Receptor Signaling for Cancer Therapy," Harry and Elsa Jiler-ACS 2009 Professors Meeting on Personalized Oncology: Implications for the Lab, Clinic, and Population, Naples, FL

Nov 18, 2009 "Targeting Death Receptor Signaling for Cancer Therapy," VCU Massey Cancer Center, Richmond, VA

Dec 3, 2009 "Optical Imaging in Cancer Research," Masters in Translational Research (MTR 603) course lecture, University of Pennsylvania School of Medicine

Dec 11, 2009 "Modulating TRAIL Death Receptor Signaling for Cancer Therapy," Student-invited Speaker, Interdisciplinary Biomedical Sciences Program, University of Arkansas for Medical Sciences, Little Rock, AR

Jan 15, 2010 "Targeting Tumor Cell Death with New Drug Combinations," Chestnut Hill

Hospital Medicine Grand Rounds, Philadelphia, PA

Feb 3, 2010 "Small Molecules & Targets to Promote Death Receptor Signaling in Resistant Cancers," AACR Special Conference on Cell Death Mechanisms and Cancer Therapy, San Diego, CA

Apr 24, 2010 "New Cancer Treatments," in Leading the Way to a Healthier World Session at Campaign Kick-off Event, State College, PA

Apr 28, 2010 "Colorectal Cancer," Presentation to Hematology/Oncology Fellows at Penn State Hershey Medical Center, Hershey, PA

May 12, 2010 "Small Molecules and Targets to Promote Death Receptor Signaling in Resistant Cancers," Jefferson Medical College, Philadelphia, PA

May 21, 2010 "Optical Imaging in Cancer Research," PHS 511 Course on Methods Used in Translational Research, Penn State Hershey Medical Center, Hershey, PA

May 26, 2010 Invited Presentation to the Viral Oncology and Host Defense (VOHD) Program at Penn State Hershey Cancer Institute

May 27, 2010 Invited Presentation to the Chemical Carcinogenesis and Chemoprevention (CCC) Program at Penn State Hershey Cancer Institute

June 16, 2010 "Introduction/Opportunities in Translational Research," Translational Research Symposium, Penn State Hershey Cancer Institute, Hershey, PA

June 24, 2010 "2010 ASCO Meeting Update on Colorectal Cancer," Hematology/Oncology Grand Rounds, Penn State College of Medicine, Hershey, PA

July 15, 2010 "Targeting the TRAIL Death Receptor Pathway in Cancer Therapy," Penn State Hershey Cancer Institute Experimental Therapeutics Program Meeting, Penn State College of Medicine, Hershey, PA

July 16, 2010 "2010 ASCO Meeting Update on Colorectal Cancer," Central Pennsylvania Oncology Group, Hershey, PA

Aug 5, 2010 "Targeting the TRAIL Death Receptor Pathway in Cancer Therapy," Cancer Biology Retreat Keynote Lecture, Wake Forest University, Winston-Salem, NC

Aug 17, 2010 "Advances in Colorectal Cancer Therapy," Department of Medicine Grand Rounds, Penn State College of Medicine, Hershey, PA

Aug 21, 2010 "Overview of Apoptotic Signaling," Ninth International Congress on Targeted Therapies in Cancer, Washington, DC

Sept 23, 2010 "Targeting TRAIL Receptors in Cancer Therapy," Columbia University Medical Oncology Grand Rounds, New York, NY

Oct 10, 2010 "Therapeutic Targeting of p53-Deficient Tumors," 15th International p53 Workshop, Philadelphia, PA

Oct 19, 2010 "Therapeutic Targeting of p53-Deficient Tumors," Penn State Hershey Cancer Institute Interdisciplinary Conference, Penn State College of Medicine, Hershey, PA

Oct 30, 2010 "Imaging Colon Cancer Targets for Therapy," AACR Special Conference "Colorectal Cancer: Biology to Therapy," Philadelphia, PA

Nov 8, 2010 "Therapeutic Targeting of p53-Deficient Tumors," Penn State Department of Pharmacology, Hershey Center for Applied Research, Penn State College of Medicine, Hershey, PA

Nov 13, 2010 "Targeting TRAIL Resistance with Sorafenib," Human Genome Sciences Investigator Meeting, New Orleans, LA

Nov 16, 2010 "Targeting TRAIL Receptors in Cancer Therapy," Dean's Lecture, Penn State College of Medicine, Hershey, PA

Dec 3, 2010 "Grants and Peer Review," Department of Medicine Research Conference, Penn State Hershey Medical Center, Hershey, PA

Dec 15, 2010 "Targeting Cell Death in Cancer Therapy," International Kuwait Prize Lecture, Kuwait City, Kuwait

Feb 6, 2011 "Plenary Lecture 1" on "Targeting Cell Death in Cancer Therapy" at the 30th Annual Convention of the Indian Association for Cancer Research & International Symposium on "Signaling Network & Cancer," Kolkata, India

Apr 16, 2011 Sanofi-Aventis Lecture on "Targeting Cell Death in Cancer Therapy" at the Advances in Immunology and Cancer Biology Workshop, Boğaziçi University,

Istanbul, Turkey

Apr 16, 2011 Invited presentation in session on Professional Center, Associations, and Journals "Cancer Biology and Therapy Editor" at the Advances in Immunology and Cancer Biology Workshop, Boğaziçi University, Istanbul, Turkey

July 7, 2011 "Post-2011 ASCO update on colorectal cancer" Hematology/Oncology Grand Rounds, Penn State Hershey Cancer Institute

July 15, 2011 "Update on colorectal cancer and translational science" Post-ASCO 2011 symposium for central Pennsylvania community physicians, PSHCI, Hershey Lodge, Hershey, PA

Aug 3, 2011 "Cancer Pathways and Hallmarks," Lecture to Hematology/Oncology Fellows, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Aug 31, 2011 "Colorectal Cancer," Lecture to Department of Medicine Residents, Penn State Hershey Medical Center

Sept 15, 2011 "Cell Cycle Defects in Cancer," Lecture to Hematology/Oncology Fellows, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Sept 16, 2011 "Targeting Brain Tumors," Invited lecture at Brain Tumor Symposium, Penn State Hershey Medical Center

Sept 27, 2011 "Personalizing Cancer Therapy," Invited lecture at Penn State Medical Center Alumni Event, The Union League of Phildelphia, Philadelphia, PA

Oct 7, 2011 Invited Lecture on "Targeting Cell Death Receptors in Cancer Therapy" at the University of Geneva, Geneva, Switzerland

Oct 27, 2011 "Personalizing colorectal cancer therapy at Penn State through CTC analysis, tumor genetics, and host drug pharmacokinetic measurements," 9th Annual Meeting of the National Functional Genomics Center (NFGC), Clearwater, FL

Nov 5, 2011 "Multimodal and molecular imaging," Penn State NanoMed Summit, Hershey, PA

Nov 9, 2011 "Personalized 5-Fluorouracil Dose Management: A Rational Approach to Improving Therapeutic Outcomes" Chemotherapy Foundation Symposium XXIX on Innovative Cancer Therapy, Mount Sinai, School of Medicine, New York, NY

Nov 14, 2011 "Personalizing colorectal cancer therapy through CTC analysis, tumor genetics, and host drug pharmacokinetic measurements, Hematology Grand Rounds, the Johns Hopkins Hospital, Baltimore, Maryland

Nov 16, 2011 "Multimodal and molecular imaging: Relevance to drug development and therapy monitoring," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Jan 18, 2012 "Cancer Stem Cells," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Feb 24, 2012 "Personalizing Cancer Therapy," Penn State University Alumni Event, Naples, FL

Mar 10, 2012 "Personalizing Cancer Therapy at Penn State Hershey Cancer Institute," 8th Annual Public Forum "Reducing Cancer in Our Community" in partnership with the American Cancer Society

Mar 26, 2012 "Personalizing Cancer Therapy for Colorectal Cancer," Invited presentation at University of Colorado, Denver, Anschutz Medical Center Department of Pharmacology

April 18, 2012 "Therapeutic Targeting of p53-Deficient Tumors," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

April 25, 2012 "Therapeutic Targeting of p53-deficient tumors," Johns Hopkins 4th Quarter Cancer Course, New Approaches to Cancer prevention and Therapy, Baltimore, MD

April 28, 2012 "Personalized 5-Fluorouracil PK Dose Management: A Rational Approa ch to

Improving Therapeutic Outcomes," Myriad OnDose Workshop, New York, NY

May 10, 2012 "PSU-HMC Optical Imaging Core," Penn State Hershey Cancer Institute Retreat, Hershey, PA

May 10, 2012 "Quinacrine and Integration with Chemotherapy," Penn State Hershey Cancer Institute Retreat, Hershey, PA

May 18, 2012 "Recent Progress in Understanding the Molecular Pathogenesis of Pancreatic Cancer," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

June 14, 2012 "Update from 2012 AACR 3/31-4/4/12," Hematology/Oncology Grand Rounds, Penn State Hershey Cancer Institute

July 31, 2012 "Colorectal Cancer," Lecture to Department of Medicine Residents, Penn State Hershey Medical Center

Aug 15, 2012 "Cell Cycle Defects in Cancer," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Sept 19, 2012 "p53, Li-Fraumeni Syndrome, and novel therapies targeting the p53 pathway in the clinic in 2012," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Sept 22, 2012 "Introducing The Institute for Personalized Medicine" Penn State College of Medicine Alumni Symposium, Hershey, PA

Sept 22, 2012 "Personalizing Cancer Therapy" Penn State College of Medicine Alumni Symposium

Sept 27, 2012 "Colorectal Cancer," Lecture to Department of Medicine Residents, Penn State Hershey Medical Center

Sept – Dec '12 Declined invitations for funded scientific talks/travel in China, India, Greece, and Italy

Oct 17, 2012 "Multimodal and molecular imaging: Relevance to drug development and therapy monitoring," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Oct 24, 2012 "The emerging field of personalized medicine/cancer therapy". PolyTechnos Entrepreneurial Day Keynote Address, New York, NY.

Nov 13, 2012 "Using Circulating Cancer Cells to Assess Drug Sensitivity" National Physics and Cancer Workshop: Theoretical Foundations of Drug and Immune Resistance in Cancer, Arlington, VA

Nov 14, 2012 Keynote Speaker at Dinner Event, American Cancer Society Sarasota Laureate Society, Sarasota, FL

Jan 10, 2013 "Multimodal and Molecular Imaging; Relevance to Drug Development and Therapy Monitoring" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Jan 15, 2013 "Principles of Translational Research" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Jan 29, 2013 "Elements of a Clinical Protocol and How to Get it Started" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Feb 19, 2013 "Therapeutic Targeting of p53" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Feb 21, 2013 "Colorectal Cancer" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine

March 20, 2013 "Advancing Colorectal Cancer Care Through Genetic and Therapy Translational Efforts," Stanford University Department of Medicine, Stanford, CA

April 16, 2013 "Personalizing Cancer Therapy" Lecture in BMS 597 course Current Topics in Translational Cancer Research, Penn State College of Medicine, Hershey, PA

April 25, 2013 "Colorectal Cancer" Lecture to Department of Medicine Residents, Penn State Hershey Medical Center, Hershey, PA

May 30, 2013 "Personalized Oncology Through Tumor Sequencing and Dedicated Tumor Board" Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

July 12, 2013 "What is New and Practice-Changing in Colorectal Cancer?" Review Course for Clinical Oncologists; Symposium on highlights of 2013 ASCO Meeting, Hershey, PA

July 15, 2013 "Personalizing Colorectal Cancer Therapy" Invited Lecture, University of Hawaii Cancer Center, Honolulu, Hawaii

Aug 1, 2013 "Personalizing Colorectal Cancer Therapy" Penn State Hershey Cancer Institute & Hematology/Oncology Grand Rounds, Hershey, PA

Aug 21, 2013 "Cell Cycle Defects in Cancer" Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Penn State Hershey Cancer Institute

Sept 12, 2013 "Update on Penn State Hershey Cancer Institute" Penn State Hershey Cancer Institute Development Committee, Hershey Center for Applied Research, Hummelstown, PA

Sept 21, 2013 "Personalizing Cancer Therapy" Penn State College of Medicine Alumni Weekend

Sept 27, 2013 "Personalizing Colorectal Cancer Therapy" Symposium honoring Prem Reddy, Fels Institute, Temple University, Philadelphia, PA

Oct 15, 2013 "Personalizing Colorectal Cancer Therapy" Penn State College of Medicine

Oct 24, 2013 "Personalizing Colorectal Cancer Therapy" Invited Visiting Professor Lecture Series, University of Pennsylvania, Department of Radiation Oncology, Philadelphia, PA

Oct 25, 2013 "Update on Penn State Hershey Cancer Institute" Penn State Hershey Cancer Institute's Cancer Control & Population Health Retreat, University Park, State College, PA

Nov 2, 2013 Invited Speaker, American Cancer Society Annual Benefit of Hope gala, York, PA

Dec 18. 2013 "Cancer Stem Cells," Hematology/Oncology Fellow Conference, Hematology/Oncology Division, Department of Medicine and Penn State Hershey Cancer Institute

Jan 15, 2014 "Personalizing Colorectal Cancer Therapy", Markey Cancer Center Seminar Series, Lexington, KY

Jan 16, 2014 "Multimodal and Molecular Imaging; Relevance to Drug Development and Therapy Monitoring" Lecture in BMS 568 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Jan 23, 2014 "Principles of Translational Research" Lecture in BMS 568 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Feb 4, 2014 "Elements of a Clinical Protocol and How to Get it Started" Lecture in BMS 568 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Feb 19, 2014 "Personalizing Colorectal Cancer Therapy" University of Sao Paulo Cancer Center, Sao Paulo, Brazil

Feb 20, 2014 "Therapeutic Targeting of p53", Session on "p53: Three Decades of Discovery" in Sao Paulo School of Advanced Science: Oncogenesis and Translational Medicine for the Treatment of Cancer" University of Sao Paulo, Ribeirao Preto, Brazil

Feb 25, 2014 "Personalizing Colorectal Cancer Therapy", Yale Cancer Center Grand Rounds, New Haven, Connecticut

Feb 27, 2014 "Therapeutic Targeting of p53" Lecture in BMS 568 course Current Topics in Translational Cancer Research, Penn State College of Medicine

Feb 27, 2014 "Colorectal Cancer" Lecture in BMS 568 course Current Topics in Translational Cancer Research, Penn State College of Medicine

March 11, 2014 "Targeting Mutant p53 in Cancer Therapy", 4th International Conference on Tumor Progression & Therapeutic Resistance, Boston, MA

March 27, 2014 "Personalizing Colorectal Cancer Therapy" New Frontiers in Gastrointestinal

Cancers Lecture Series, MDACC, Houston

June 12, 2014 Karmanos Cancer Institute Grand Rounds, Detroit, Michigan

June 16, 2014 "Targeting Mutant p53 in Cancer Therapy", 16th International p53 Workshop, Stockholm Waterfront Congress Centre, Stockholm, Sweden

Oct 23, 2014 Invited Speaker, GI Oncology Program/VICC, Vanderbilt University

Jan 13, 2015 "Personalizing Colorectal Cancer Therapy" The Fels Institute for Cancer Research, Temple University, Philadelphia, PA

Jan 17, 2015 "New anti-angiogenic therapy in mCRC: FOLFIRI +/- Ramucirumab in 2nd line after FOLFOX + Bevacizumab (phase III: RAISE study) or single agent Famitinib in 3rd line (phase II randomized with placebo)" Discussant in Oral Abstract Session: Cancers of the Colon, Rectum, and Anus, GI ASCO meeting, San Francisco, CA

Feb 11, 2015 "Personalizing Colorectal Cancer Therapy" Wistar Institute Distinguished Lecture Series, Wistar Institute, Philadelphia, PA

Feb 13, 2015 "Personalizing Colorectal Cancer Therapy" Lombardi Cancer Center Grand Rounds, Georgetown University, Washington, DC

March 6, 2015 "Personalizing Colorectal Cancer Therapy" Roswell Park Cancer Institute Grand Rounds, Buffalo, NY

April 13, 2015 Invited Lecture in the Cancer Biology Course, Sidney Kimmel Cancer Center at Johns Hopkins, Baltimore, MD

April 18, 2015 AACR Special Professional Advancement Session on Social Media For Scientists "Using Twitter and LinkedIn to Lead and Follow your Field" Philadelphia, PA

May 6, 2015 "Personalizing Colorectal Cancer Therapy" Temple University Department of Neuroscience, Philadelphia, PA

June 17, 2015 "Personalizing Colorectal Cancer Therapy" Cancer Institute of New Jersey, New Brunswick, NJ

Oct 8, 2015 "Personalized Therapeutics for Colorectal Cancer" Division of Gastroenterology and NIDDK P30 Center for Molecular Studies in Digestive and Liver Diseases Research Seminar, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Nov 18, 2015 Sidney Kimmel Cancer Center Grand Rounds, Jefferson University, Philadelphia, PA

Nov 30, 2015 Drexel University Biochemistry Department Seminar, Philadelphia, PA

Dec 5, 2015 "Personalized Therapeutics for Colorectal Cancer" US-China Precision Medicine Symposium, Radnor Valley Country Club, Villanova, PA

Jan 28, 2016 "Molecular Therapeutics Program" presentation at the Fox Chase Cancer Center CCSG site visit, Fox Chase Cancer Center, Philadelphia

May 4, 2016 "Translational Research/Precision Medicine" presentation to Temple University Medical Students, Broad Street campus, Lewis Katz Schhol of Medicine at Temple, Philadelphia

May 19, 2016 "Discovery and Translation of Novel Therapeutics Targeting Cancer Cell Death," Symposium for Research Partnerships, The Franklin Institute, Philadelphia

Sept 9, 2016 "Molecular Therapeutics Targeting Cell Death and Tumor Suppression," speaker at Molecular Therapeutics Program, Fox Chase Cancer Center

Sept 19, 2016 "Molecular Therapeutics Targeting Cell Death and Tumor Suppression," invited presentation at Hem/Onc Seminar Series/T32 series, University of Alabama in Birmingham.

Dec 7, 2016 "Molecular Therapeutics Targeting Cell Death and Tumor Suppression," Temple University Lewis Katz School of Medicine MD/PhD Program invited presentation.

Jan 27, 2017 "Discovery and Clinical Translation of an Anti-Cancer Drug," Temple University Fels Institute and Moulder Center Drug Discovery and Development Retreat, Philadelphia.

Feb 21, 2017 Presentation on the Centers of Excellence (COE) Collaboration with Caris Life Sciences, Fox Chase affiliate at Hunterdon Medical Center, Flemington, NJ.

March 3, 2017 "Developing therapeutics for evolving advanced cancers" Invited Speaker at Genomics, Evolution, Disease Symposium, Temple University, Fels Institute, Philadelphia.

April 6, 2017 "Discovery and Clinical Translation of an Anti-Cancer Drug"Invited Keynote Speaker at 9th Annual MD/PhD Student Research Symposium, University of Miami Miller School of Medicine, Miami, Florida.

April 20-21, 2017 "Discovery and Clinical Translation of an Anti-Cancer Drug" SCC Excellence in Cancer Research Seminar Visit, Oklahoma City, OK.

April 26, 2017 "Discovery and Clinical Translation of an Anti-Cancer Drug" Temple University Department of Surgery Grand Rounds, Philadelphia, PA

May 15-16 "Discovery and Clinical Translation of an Anti-Cancer Drug" Invited Speaker at University of Nebraska Medical Center Short Course in Precision Medicine.

June 4, 2017 "Emerging Complexity of Tumor Heterogeneity and Clinical Practice." Speaker and Chair, Education Session "Tumor and Clinical Heterogeneity," ASCO Annual Meeting, Chicago, IL.

Aug 11, 2017 Update from Annual ASCO meeting on Colorectal Cancer, Fox Chase Cancer Center

Oct 11, 2017 "Therapeutic targeting of the p53 pathway in human cancer" Speaker at Faculty Seminar, Fox Chase Cancer Center

Oct 13, 2017 "Targeting cancer mutations" Speaker at Clinical Research Grand Rounds, Fox Chase Cancer Center

Oct 21, 2017 "Imipridone ONC201, a first-in-class clinical stage cancer therapeutic triggers an integrated stress response and potent immune effects" Invited Speaker, 20th Annual John B. Little Symposium, Harvard School of Public Health, Boston, MA

Nov 9, 2017 "Molecular Therapeutics Targeting Cell Death and Tumor Suppression" Invited Speaker, Hollings Cancer Center, MUSC, Charleston, SC

Jan 9, 2018 "Molecular Therapeutics Targeting Cell Death and Tumor Suppression" Invited Speaker, The Albert Einstein Cancer Center at Einstein and Montefiore, Bronx, NY

Mar 1, 2018 "Treatment of mCRC in 2018" Lecture to Hematology-Oncology fellows at Fox Chase Cancer Center, Philadelphia, PA

Mar 14, 2018 "Molecular Therapeutics Program" presentation to the Fox Chase Cancer Center External Advisory Committee, Philadelphia, PA

Apr 13, 2018 Panel Member, Professional Advancement Session, "The Critical Role of Physician-Scientists in Advancing Cancer Science," 2018 AACR Annual Meeting, Hyatt Regency McCormick Place, Chicago, IL

Apr 15, 2018 Participant, AACR-Minority and Minority-Serving Institution Faculty – Cancer Center Collaboratives Program, 2018 AACR Annual Meeting, Hyatt Regency McCormick Place, Chicago, IL

Apr 17, 2018 Panel Member, "Exploring Genetic Diversity in Drug Development," 2018 AACR Annual Meeting, Adler Planetarium, Chicago, IL

May 1, 2018 "Molecular Therapeutiucs Targeting Cell Death and Tumor Suppression," Medicine Grand Rounds, City of Hope, Duarte, CA

June 4, 2018 Discussant "Resources and Tools for Precision Oncology: cfDNA Genome Atlas and PDX Models," 2018 ASCO Annual Meeting, Chicago, IL

June 5, 2018 Chair, Tumor Biology Oral Abstract Session, 2018 ASCO Annual Meeting, Chicago, IL

June 12, 2018 Panel Member, 2018 Chance Symposium on Metabolic Imaging/Spectroscopy in honor of the 105th birthday of Britton Chance, University of Pennsylvania, Philadelphia, PA

June 13, 2018 Session Chair "Radiation Therapy and Immunotherapy," 2018 Chance Symposium on Metabolic Imaging/Spectroscopy in honor of the 105th birthday of Britton Chance, University of Pennsylvania, Philadelphia, PA

July 18, 2018 Invited Seminar "Molecular Therapeutics Targeting Cell Death and Tumor Suppression," Joint Program in Cancer Biology and Department of Pathology, Brown University, Providence, Rhode Island

Aug 2, 2018	Lecture to Hem/Onc Fellows on Colorectal Cancer, Fox Chase Cancer Center
Aug 28, 2018	Invited Speaker at Methodist Hospital Oncology Grand Rounds "Molecular Therapeutics Targeting Cell Death in Tumor Suppression," Houston, TX
Sept 5, 2018	"Translational Cancer Therapeutics Targeting Hypoxia and Mutant p53," Rhode Island Hospital, Providence, RI
Oct 18, 2018	"Translational Cancer Therapeutics Targeting Hypoxia and Mutant p53," invited seminar in Department of Pharmacology, Upsate Medical University, Syracuse, NY
Oct 19, 2018	"Molecular Therapeutics Targeting Cell Death and Tumor Suppression," Hematology/Oncology Grand Rounds, Upsate Medical University, Syracuse, NY
Oct 23-24, 2018	Invited Distinguished Lecture "Molecular Therapeutics Targeting Cell Death and Tumor Suppression," Ohio State University College of Pharmacy, Columbus, Ohio
Nov 7, 2018	Invited Speaker at Precision Therapeutics Symposium, Columbia University, NY
Feb 7, 2019	Invited Speaker, Hematology/Oncology Grand Rounds, Penn State Cancer Institute, Hershey, PA
Feb 7, 2019	Invited Speaker at Oncology Pioneers: The Science Lecture Series, Penn State College of Medicine. Medical student invitation through the ASCO-accredited Hematology/Oncology Interest Group, Hershey, PA
Mar 30, 2019	Invited speaker/panelist "AACR Careers in Clinical and Translational Cancer Research Roundtable," AACR Annual Metting, Atlanta, GA
Apr 1, 2019	Keynote Speaker at American Cancer Society's Reception during the Annual AACR meeting (event held at the ACS Headquarters in Atlanta, GA)
Apr 8, 2019	"Joint Program in Cancer Biology" LCI Roadmap Retreat, Providence Marriott, Downtown Providence
May 25, 2019	"Battling Cancer: Translating Research Into Better Care for Patients" Brown University Commencment Forum, Smith-Buonanno Hall, Brown University
July 24, 2019	"Joint Program in Cancer Biology: Building an Academic Cancer Research Center for NCI Designation" Dean's Leadership Retreat, East Providence
Sept 27, 2019	"Targeting Apoptosis in Cancer Therapy" 7th International Congress of the Molecular Biology Association of Turkey, Instanbul, Turkey
Oct 8, 2019	"Targeting Apoptosis in Cancer Therapy" presentation to MD/PhD Program students at Brown University
Oct 25, 2019	"Targeting Apoptosis in Cancer Therapy" Advisory Board on Apoptosis, Boerhinger Ingelheim, Boston, MA
Oct 29, 2019	"Advances in Cancer Research: From Rhode Island to the World" Miriam People Dinner, Providence Downtown Marriott
Nov 14, 2019	"Targeting Apoptosis in Cancer Therapy" Training Program in Translational Research, University of Michigan, Ann Arbor, MI
Nov 15, 2019	"Advances in Cancer Research: From Rhode Island to the World" American Cancer Society Cancer Action Network; 6th Annual Rhode Island Research Breakfast, Roger Williams Park Casino, Providence, RI
Dec 3, 2019	"Discovery and Clinical Translation Targeting Cancer Cell Death" Inaugural Danny Welch Distinguished Lectureship in Cancer Biology, Kansas City
Feb 7, 2020	"Cancer Programs; Joint Program in Cancer Biology" Brown University Corporation Academic Tracks, Brown University, Providence, RI
Mar 10, 2020	"Cancer Center at Brown University" presentation to the Academic Priorities Committee at Brown University, Chaired by Provost Richard Locke
Oct 15, 2020	"Cancer Center at Brown University" Overview of Cancer Center at Brown University presented to 1st External Advisory Board for Cancer Center at Brown University, Providence, RI
Mar 17, 2021	"Colorectal cancer gene signatures and clinical outcomes with specific drugs used clinically to treat CRC," Caris Life Sciences
Apr 8, 2021	"Killing Cancer Cells; Cancer Center at Brown University," Provost Richard Locke's "By Faculty For Faculty" at Brown University
May 10, 2021	"Targeting Cell Death in Cancer Therapy," Genetics, Genomics, and Cancer

Biology Program, Thomas Jefferson University

May 19, 2021 "Directions with Imipridones," Chimerix Leadership Meeting at Bonita Springs, FL

July 8, 2021 "Overview of Imipridones," Opening presentation (first of 16 presentations) at Chimerix Symposium at Brown University

Nov 12, 2021 "Cancer Research in Rhode Island," ACSCAN-RI 8th Annual Research Breakfast, Marriott Downtown Providence

Nov 24, 2021 "Tools of Precision Oncology," Hematology-Oncology Fellow Presentation, Brown University, Rhode Island Hospital

Dec 2, 2021 "Cancer Therapeutics," Faculty Seminar, Department of Pathology and Laboratory Medicine, Warren Alpert Medical School, Brown University

Dec 9, 2021 "Targeting Cell Death in Cancer Therapy," Oncology Seminar Series, Brigham and Women's Hospital, Harvard Medical School.

Feb 15, 2022 "Accelerating Basic and Translational Cancer Research at Brown" College Hill Society of Brown University

Mar 28, 2022 "Targeting Cell Death in Cancer Therapy" Opening Lecture in 4th Quarter Cancer Biology Course, Johns Hopkins Medicine, Johns Hopkins Sidney Kimmel Cancer Center

May 24, 2022 "Innovative Cancer Therapeutics Require Transdisciplinary Collaboration" Brown University Center for Biomedical Engineering Spring Retreat

Aug 18, 2022 "Experimental Approaches to Treat Cancer and Susceptibility due to p53 Alterations" Global Cancer Consortium p53-Therapeutics Mini-Symposium

Oct 4, 2022 "Targeting Cell Death in Cancer Therapy" Tisch Cancer Institute at Mount Sinai School of Medicine

Oct 7, 2022 "Update on Cancer Research in Rhode Island and the Legorreta Cancer Center" 9th Annual ACSCAN-RI Research Breakfast

Nov 5, 2022 "Tips for Success in Starting an Academic Research Lab" 2022 ACS Jiler Conference Career Development Session, Dallas, TX

Dec 8, 2022 "Targeting Cell Death in Cancer Therapy" BIDMC 2022 Cancer Research Institute (CRI) Seminar Series

Jan 4, 2023 "Targeting Cell Death and Tumor Suppression in Cancer Therapy" Brown University Cancer Prevention and Survivorship Elective

Jan 5, 2023 "Liquid Biopsy in Early Cancer Detection, Therapy, and Disease Monitoring" Brown University Cancer Prevention and Survivorship Elective

Jan 31, 2023 "Overview of Legorreta Cancer Center and Strategic Planning Kickoff" Legorreta Cancer Center Leadership Planning Retreat

Feb 23, 2023 "Introduction to Legorreta Cancer Center" Cancer Biology Program Retreat at Legorreta Cancer Center

April 22, 2023 Brown x Cambridge Cancer Entrepreneurship Summit presentation

Sept 7, 2023 "Targeting Cell Death in Cancer Therapy" Louisiana Cancer Research Center Invited Seminar, New Orleans, LA

Oct 12, 2023 "Director's Overview" at Legorreta Cancer Center EAB Meeting, Providence, RI

Nov 29, 2023 "Post Exposure Suppression of Radiation Pneumonitis by TRAIL Pathway Agonists" NIH/NIAID Radiation and Nuclear Countermeasures Program

Jan 17, 2024 "Clinical Case Presentation" WIN Consortium Molecular Tumor Board

Mar 1, 2024 "WIN Consortium: Past, Present, and Future" WIN Consortium Chair's Presentation, 13th WIN Symposium, Abu Dhabi, UAE https://youtu.be/b3YHJI5ohvQ?si=1MFG5_GQwg5K60zY

Mar 2, 2024 "Clinical Case Presentation" WIN Consortium Molecular Tumor Board, 13th WIN Symposium, Abu Dhabi, UAE

May 24, 2024 "Facilitating Translation in Oncology: Ongoing Lessons" 2024 Legorreta Cancer Center Translational Research Disease Group Retreat, Providence, RI

May 30, 2024 Keynote: "Serial Entrepreneurship in Cancer Drug Development: Ongoing Lessons" Co.Lab Cambridge One-Year Anniversary Event, Boston, MA

June 7, 2024 "WIN Consortium in Personalized Cancer Medicine" South West Oncology Group

June 24, 2024 "Targeting Cell Death in Cancer Therapy" University of Hawaii Cancer Center,

Honolulu, Hawaii

June 27, 2024 "WIN Consortium in Personalized Cancer Medicine" Dava Oncology 3rd Global Thoracic Malignancies Summit, Kona, Hawaii

June 28, 2024 "Emerging Therapeutics including combinations with lurbinectedin in SCLC" Dava Oncology 3rd Global Thoracic Malignancies Summit, Kona, Hawaii

Aug 2, 2024 "Introduction: Exploring the Interface of Cancer Biology & Bioengineering" Legorreta Cancer Center Cancer Biology & Engineering Retreat, Providence, RI

Sept 14, 2024 "Cancer Center Director's Introductory Presentation" 2nd Translational Oncology Symposium: Ins and Outs of Cancer, Brown University, Providence, RI

Sept 19, 2024 "Director's Overview" Legorreta Cancer Center Annual Membership Retreat, RI

Sept 27, 2024 "Director's Overview and Six Essential Characteristics" Legorreta Cancer Center at Brown University 3rd External Advisory Board Meeting, Providence, RI

Oct 7, 2024 "Building Connections: Networking for Career and Scientific Advancement" AACR Grantee Summit, Philadelphia, PA

Oct 17, 2024 "Targeting Cell Death in Cancer Therapy" MD Anderson Cancer Center Experimental Radiation Oncology Seminar, Houston, TX

Nov 13, 2024 "Opening Remarks about LCC" Mini-Symposium: Exploring the Interface of RNA & Cancer Biology, Brown University, Providence, RI

Nov 19, 2024 "BrUOG 432: Early Cancer Detection Blood Test in RI" Brown University Oncology Research Group Retreat, Providence, RI

Dec 2, 2024 Legorreta Cancer Center Update BioMed Leadership Council

Feb 25, 2025 Introduction to "Exploring the Interface of Immunology & Cancer Biology Mini-Symposium," Brown University, Providence, RI

Feb 25, 2025 "Innate Immunity in Cancer Therapy" Cancer Biology-Immunology Retreat, Brown University, Providence, RI

March 4, 2025 "Introduction and EAB Feedback" Data Science Working Group Workshop, Legorreta Cancer Center, Brown University, Providence, RI

April 12, 2025 Inaugural Keynote: National Undergraduate Research Conference at Brown University, Providence, RI

May 8, 2025 "Translational Therapeutics Targeting Cell Death" Advance CTR RI Clinical and Translational Research Seminar Series, Providence, RI

June 10, 2025 "Introduction: Anti-cancer Immunoengineering Symposium at Brown University," jointly organized by Legorreta Cancer Center, Brown School of Engineering and the Institute for Biology, Engineering and Medicine, Providence, RI

June 10, 2025 "Innate Immunity in Cancer Therapy" Anti-cancer Immunoengineering Symposium at Brown University, Providence, RI

Sept 10, 2025 "COVID Vaccines and Cancer" ACIP COVID Immunization Working Group.

Sept 26, 2025 "Targeting Death Receptors in Cancer Therapy" 2nd Annual STOP Cancer Symposium, Las Vegas, NV

Nov 14, 2025 "Targeting Death Receptors in Cancer Therapy" Keynote Address at the University of Missouri School of Medicine 2025 Health Science Research Day, Columbia, MO

Jan 23, 2026 "Precision Oncology in Cancer: From Early Drug Development to Global Standards of Care" Keynote Lecture at the 18th BGIICC 2026 Breast Gynecological & Immuno-oncology International Cancer Conference, Cairo, Egypt

Feb 14, 2026 "Role of WIN Consortium in Precision Oncology" Keynote Lecture at the Illuminate 3.0 Oncology Town Hall, Mumbai, India

March 24, 2026 "Legorreta Cancer Center Update" 2026 Annual LCC TRDG Retreat, Brown University, Providence, RI

April 18, 2026 Keynote Address at Israel Cancer Association USA annual event, Mar-a-Lago, FL

April 28, 2026 "Welcome Remarks" Inaugural National Caris Precision Oncology Alliance Member Meeting at Brown University, Providence, RI

Organizing Roles in Scientific Meetings:

April, 1998	Minisymposium Chair "Function of Tumor Suppressor Genes" - AACR 89th Annual Meeting, New Orleans, LA
April, 2000	Minisymposium Co-Chair "Cell Cycle in Prognosis and Therapy" - AACR 91st Annual Meeting, San Francisco, CA
April, 2000	Member, Program Committee (Cell Cycle), 91st Annual Meeting, American Association for Cancer Research, San Francisco, CA
March, 2001	Poster Discussion Chair "Death Receptors" - AACR 92nd Annual Meeting, New Orleans, LA
March, 2001	Member, Cell Death Committee, 92nd Annual Meeting of American Association for Cancer Research, New Orleans, LA
March, 2001	Chair, Cell Cycle Committee, 92nd Annual Meeting of American Association for Cancer Research, New Orleans, LA
April, 2001	"Transcriptional Regulation/Chromatin Remodeling" - Panel Chair, NCI Workshop on BRCA1 Function in Cell Growth and Tumorigenesis, Rockville, MD
October, 2001	Member, Organizing Committee, AACR/NCI/EORTC International Conference on Molecular Targets and Cancer Therapeutics: Discovery, Biology and Clinical Applications, Miami, FL
April, 2002	Opening Session Chair, 1st International Oncology Symposium, Guangzhou, China
April, 2002	Minisymposium Co-Chair, DNA damage responses - 2002 AACR meeting, San Francisco, CA
May, 2002	Late Breaking Session Chair, 11th International p53 Workshop, Barcelona, Spain
March, 2004	Program Committee and Minisymposium Co-Chair, 95th Annual AACR Meeting, Orlando
Nov., 2004	Organizer/Chairperson, International Conference on Tumor Progression and Therapeutic Resistance
June, 2005	Organizer, 2005 Optical Imaging Retreat: Insights into an emerging modality and its clinical potential, University of Pennsylvania, Philadelphia, PA
July, 2005	Chair and organizer, Session on "p53-Mdm2 and stress response pathways" morning of July 20, 2005, Molecular Therapeutics of Cancer Gordon Conference, Colby Sawyer College, New Hampshire
Sept., 2005	Organizer/Chairperson, 2nd International Conference on Tumor Progression and Therapeutic Resistance, Burlington, MA
Nov 2005	Organizer/Session Chair, NCI/NTROI Workshop on Optical Imaging for Drug Discovery, Therapeutic Response, and Early Detection, Bethesda, MD
June, 2006	Organizer, 2006 Optical Imaging Retreat: Progress and clinical translation of *in vivo* imaging, University of Pennsylvania, Philadelphia, PA
July, 2006	Program Committee and Session Chair, Workshop on Imaging Science Development for Cancer Prevention and Preemption, July 9-11, 2006, Washington, DC
Oct, 2006	Organizer/Chairperson, 3rd International Conference on Tumor Progression and Therapeutic Resistance, Baltimore, MD
Oct, 2006	Organizer/Session Chair, NCI/NTROI Workshop on Optical Imaging, Washington, DC
Apr, 2007	Member of Program Committee and Chair "Oncogenes and Tumor Suppressor Genes" Committee, AACR Annual Meeting, Los Angeles, CA
Apr, 2007	Minisymposium Co-Chair, "Mechanisms of Drug Resistance" - 2007 AACR meeting, Los Angeles, CA
Apr, 2007	Minisymposium Co-Chair, "What's New with p53 and the Family" - 2007 AACR meeting, Los Angeles, CA
June, 2007	Discussant "Developmental Therapeutics: Molecular Therapeutics" Poster Discussion Session at ASCO Annual Meeting, Chicago, IL; Slides and audio of

oral presentation available at ASCO 2007 Annual Meeting web site

June, 2007 Organizer, 2007 *In Vivo* Optical Imaging Retreat: Progress and clinical translation, University of Pennsylvania, Philadelphia, PA

Oct, 2007 Organizer/Session Chair, NCI/NTROI Workshop on Optical Imaging, Washington, DC

Dec, 2007 Organizer, Anti-Cancer Drug Discovery and Development Retreat, University of Pennsylvania School of Medicine and Abramson Cancer Center, Philadelphia, PA

Apr, 2008 Member of Program Committee, and Chair, Educational Session on "Cell Death and Autophagy," AACR Annual Meeting, San Diego, CA

Sept, 2008 Member of Program Committee, 3rd Annual AACR International Conference on Molecular Diagnostics in Cancer Therapeutic Development, Philadelphia, PA
Session Chair: Molecular Imaging: From Mouse to Human
Session Co-Chair: Noninvasive Markers

Oct, 2008 Member of International Organizing Committee "14th International p53 Workshop," Shanghai, China

Apr, 2009 Organizer, 199th Meeting of the Interurban Clinical Club "Advances in Medical Research," Philadelphia, PA

Jan, 2010 Chairperson, AACR Special Conference on "Cell Death Mechanisms and Cancer Therapy," San Diego, CA

June, 2010 Organizer, Translational Research Retreat, Penn State Hershey Cancer Institute, Hershey, PA

Sept, 2010 Organizer and co-Chair "15th International p53 Workshop," Philadelphia, PA

Apr, 2012 Minisymposium Co-Chair, "Establishing Preclinical Rationale for Biological Therapeutic Agents" – 2012 AACR meeting, Chicago, IL

Sept, 2012 Chair, Symposium on Personalized Medicine, Penn State College of Medicine Alumni Event, Hershey, PA

March, 2014 Organizer/Chairperson, 4th International Conference on Tumor Progression and Therapeutic Resistance (organized 1st, 2nd, and 3rd conferences in 2004-2006)

June, 2014 Member, International Organizing Committee, 16th International p53 Workshop, Stockholm Waterfront Congress Centre, June 15-19, 2014, Stockholm, Sweden

2015-2018 Member, ASCO Program Committee, Tumor Biology Track

2016-2017 Leader, Tumor Biology Track, ASCO Program Committee

June, 2016 Organizer and host, Regional Cancer Moonshot Summit covering a 5-state area (Delaware, Pennsylvania, Maryland, Virginia, West Virginia, and DC); event held at Fox Chase Cancer Center on June 29, 2016

Sept, 2016 Session Chair, American Cancer Society Jiler Professors & Fellows Conference, Salt Lake City, UT

April, 2017 Organizer and host, 1st Annual Philadelphia-Area ACS Grantee Talk and Dinner, Philadelphia, PA

June, 2017 Session Chair, ASCO Education Session on Tumor and Clinical Heterogeneity, Chicago, IL

June, 2017 Session Chair, ASCO Tumor Biology Track's Oral Abstracts Session, Chicago, IL

April, 2018 Panel Member, Professional Advancement Session, "The Critical Role of Physician-Scientists in Advancing Cancer Science," 2018 AACR Annual Meeting 4-13-18, Hyatt Regency McCormick Place, Chicago, IL

April, 2018 Participant, AACR-Minority and Minority-Serving Institution Faculty – Cancer Center Collaboratives Program, 2018 AACR Annual Meeting, 4-15-18, Hyatt Regency McCormick Place, Chicago, IL

April, 2018 Panel Member, "Exploring Genetic Diversity in Drug Development," 2018 AACR Annual Meeting 4-17-18, Adler Planetarium, Chicago, IL

June, 2018 Discussant "Resources and Tools for Precision Oncology: cfDNA Genome Atlas and PDX Models," 2018 ASCO Annual Meeting, 6-4-18, Chicago, IL

June, 2018 Chair, Tumor Biology Oral Abstract Session, 2018 ASCO Annual Meeting, 6-5-18, Chicago, IL

June, 2018	Panel Member, 2018 Chance Symposium on Metabolic Imaging/Spectroscopy in honor of the 105th birthday of Britton Chance, 6-12-18, University of Pennsylvania, Philadelphia, PA
June, 2018	Session Chair "Radiation Therapy and Immunotherapy," 2018 Chance Symposium on Metabolic Imaging/Spectroscopy in honor of the 105th birthday of Britton Chance, 6-13-18, University of Pennsylvania, Philadelphia, PA
July, 2021	Organizer, Chimerix Symposium at Brown University (16 presentations)
Aug, 2022	Co-Chair, p53-Therapeutics Mini-Symposium, Global Cancer Consortium
May, 2023	Organizer, Chimerix Symposium at Brown University (8 presentations)
Mar, 2024	Co-Chair, International WIN Symposium, Abu Dhabi, UAE
Oct, 2025	Chair, International WIN Symposium, Philadelphia, PA
April, 2026	Chair, Inaugural National Caris Precision Oncology Alliance Member Meeting at Brown University, Providence, RI

Bibliography:

Research Publications, peer reviewed:

1- Cupo, P., **El-Deiry, W.S.**, Whitney, P.L., and Awad, W.M: Stabilization of proteins by guanidination. J. Biol. Chem. 255:10828, 1980.

2- Cupo, P., **El-Deiry, W.S.**, Whitney, P.L., and Awad, W.M. Stability of acetylated and superguanidinated chymotrypsinogens. Arch. Biochem. Biophys. 216:600, 1982.

3- **El-Deiry, W.S.**, Downey, K.M., and So, A.G. Molecular mechanisms of manganese mutagenesis. Proc. Natl. Acad. Sci. USA 81:7378, 1984.

4- **El-Deiry, W.S.**, So., A.G., and Downey, K.M. Mechanisms of error discrimination by Escherichia coli DNA polymerase I. Biochemistry 27:546, 1988.

5- **El-Deiry, W.S.**, and Agre, P. Hereditary Spherocytosis- Grand Rounds at The Johns Hopkins Hospital. JAMA 262:2887, 1989.

6- **El-Deiry, W.S.**, Nelkin, B.D., Celano, P., Chiu Yen, R.-W., Falco, J., Hamilton, S.R., and Baylin, S.B. High expression of the DNA methyltransferase gene characterizes human neoplastic cells and progression stages of colon cancer. Proc. Natl. Acad. Sci. USA 88:3470, 1991.

7- **El-Deiry, W.S.**, Kern, S.E., Pietenpol, J.A., Kinzler, K.W., and Vogelstein, B. Definition of a consensus binding site for p53. Nature Genetics 1:45, 1992.

8- Yen, R.-W. C., Vertino, P.M., Nelkin, B.D., Yu, J.J., **El-Deiry, W.S.**, Cumaraswamy, A., Lennon, G.G., Trask, B.J., Celano, P., and Baylin, S.B. Isolation and characterization of the cDNA encoding human DNA methyltransferase. Nucleic Acids Res. 20:2287, 1992.

9- Kastan, M.B., Zhan, Q., **El-Deiry, W.S.**, Carrier, F., Jacks, T., Walsh, W.V., Plunkett, B.S., Vogelstein, B., and Fornace, Jr., A. J. A mammalian cell cycle checkpoint pathway utilizing p53 and GADD45 is defective in Ataxia Telangiectasia. Cell 71:587, 1992.

10- **El-Deiry, W.S.**, Tokino, T., Velculescu, V.E., Levy, D.B., Parsons, R., Trent, J.M., Lin, D., Mercer, W.E., Kinzler, K.W., and Vogelstein, B. WAF1, a potential mediator of p53 tumor suppression. Cell 75:817, 1993.

11- Pietenpol, J.A., Tokino, T., **El-Deiry, W.S.**, Kinzler, K.W., and Vogelstein, B. Sequence-specific transcriptional activation is essential for growth suppression by p53. Proc. Natl. Acad. Sci. USA 91:1998, 1994.

12- **El-Deiry, W.S.**, Harper, J.W., O'Connor, P.M., Velculescu, V.E., Canman, C.E., Jackman, J., Pietenpol, J., Burrell, M., Hill, D.E., Wiman, K.G., Mercer, W.E., Kastan, M.B., Kohn, K.W., Elledge, S.J., Kinzler, K.W., and Vogelstein, B. WAF1/CIP1 is induced in p53-mediated G1 arrest and apoptosis. Cancer Res. 54:1169, 1994.

13- Tokino, T., Thiagalingam, S., **El-Deiry, W.S.**, Waldman, T., Kinzler, K.W., and Vogelstein, B.

p53 tagged sites from human genomic DNA. Human Molec. Genet., 3: 1537-1542, 1994.

14- Shiohara, M., **El-Deiry, W.S.**, Wada, M., Nakamaki, T., Takeuchi, S., Yang, R., Chen, D.-L., Vogelstein, B., and Koeffler, H.P. Absence of WAF1 mutations in a variety of human malignancies. Blood, 84:3781-3784, 1994.

15- Fan, S., **El-Deiry, W.S.**, Bae, I., Freeman, J., Jondle, D., Bhatia, K., Fornace, A.J., Magrath, I., Kohn, K.W., and O'Connor, P.M. p53 gene mutations are associated with decreased sensitivity of human lymphoma cells to DNA damaging agents. Cancer Research, 54: 5824-5830, 1994.

16- Sun, Y., Hildesheim, A., Li, H., Li, Y., Chen, J.-Y., Cheng, Y.-J., Hayes, R.B., Rothman, N., Bi, W.-F., Cao, Y., Yao, K.-T., Lanier, A.P., Hegamyer, G., **El-Deiry, W.S.**, Xiong, Y., and Colburn, N.H. No point mutation but a codon 31 (ser to arg) polymorphism of the WAF1/CIP1/p21 tumor suppressor gene in nasopharyngeal carcinoma (NPC): The polymorphism distinguishes Caucasians from Chinese. Cancer Epidem. Biomarkers and Prevention, 4:261-267, 1995.

17- Wales, M.M., Biel, M.A., **El-Deiry, W.**, Nelkin, B.D., Issa, J.-P., Cavenee, W.K., Kuerbitz, S.J., and Baylin, S.B. p53 activates expression of HIC-1, a new candidate tumor suppressor gene on 17p13.3. Nature Medicine, 1:570-577, 1995.

18- Bedi, A., Barber, J.P., Bedi, G.C., **El-Deiry, W.S.**, Sidransky, D., Vala, M.S., Akhtar, A.J., Hilton, J., and Jones, R.J. BCR-ABL-mediated inhibition of apoptosis with delay of G2/M transition After DNA damage: A mechanism of resistance to multiple anticancer agents. Blood, 86:1148-1158, 1995.

19- Zhan, Q., **El-Deiry, W.**, Bae, I., Alamo, I., Jacks, T., Kastan, M.B., Vogelstein, B., and Fornace, Jr., A.J. Similarity of the DNA-damage responsiveness and growth-suppressive properties of WAF1/CIP1 and GADD45. Int. J. Oncol., 6: 937-946, 1995.

20- da Costa, L.T., Liu, B., **El-Deiry, W.S.**, Hamilton, S.R., Kinzler, K.W., Vogelstein, B., Markowitz, S., Willson, J.K.V., de la Chapelle, A., Downey, K.M., and So, A.G. Polymerase delta variants in RER colorectal tumors. Nature Genetics, 9:10-11, 1995.

21- **El-Deiry, W.S.**, Tokino, T., Waldman, T., Oliner, J.D., Velculescu, V.E., Burrell, M., Hill, D.E., Healy, E., Rees, J.L., Hamilton, S.R., Kinzler, K.W., and Vogelstein, B. Topological control of $p21^{WAF1/CIP1}$ expression in normal and neoplastic tissues. Cancer Res., 55:2910-2919, 1995.

22- Baas, I.O., Offerhaus, G.J.A., **El-Deiry, W.S.**, Wu, T.-C., Hutchins, G.M., Kasper, E.K., Baughman, K.L., Baumgartner, W.A., Chiou, C.-J., Hayward, G.S., and Hruban, R.H. The WAF1-mediated p53 growth suppressor pathway is intact in the coronary arteries of heart transplant recipients. Human Pathology, 27:324-329, 1996.

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129- **El-Deiry, W.S.** Imaging tumor progression and therapeutic response. 2nd International Conference on Tumor Progression and Therapeutic Response, Boston, MA, Sept., 2005.

130- Ricci, M.S., Kim, S-H., Plastaras, J., Flaherty, K., Wang, W., Smith, C. and **El-Deiry, W.S.** Repression of TRAIL induced c-IAP2 and Mcl-1 by c-Myc or Bay 43-9006 sensitizes Bax-deficient cells to TRAIL-induced death. AACR-NCI-EORTC International Conference Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications, Philadelphia, PA, Nov., 2005.

131- Wang, W., and **El-Deiry, W.S.** Screening and anti-tumor effects of small molecules that trigger p53 transcriptional activity in p53-deficient tumor cells. AACR-NCI-EORTC International Conference Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications, Philadelphia, PA, Nov., 2005.

132- Scata, K.A., and **El-Deiry, W.S.** BRCA1 regulation of p53 stability and target expression. 97th Annual AACR meeting, Washington, D.C., April 2006.

133- Kim, S-H., Rustgi, A.K., and **El-Deiry, W.S.** p53 protein acts as an obstacle for human cell transformation by the SV40 early region due to proteasomal degradation of Large T antigen. 97th Annual AACR meeting, Washington, D.C., April 2006.

134- Wang, W., Kim, S-H., Dicker, D.T., and **El-Deiry, W.S.** RbBP5 differentially regulates TRAIL and adriamycin-induced apoptosis in tumor cells. 97th Annual AACR meeting, Washington, D.C., April 2006.

135- Mintz, A., Alavi, A., and **El-Deiry, W.S.** Retargeted cytokine-immunoglobulin chimeric fusion proteins to target IL13Ra2(+) tumors. 97th Annual AACR meeting, Washington, D.C., April 2006.

136- Yang, W-S., Rozan, L., Wang, W., Matthew, E., Dicker, D.T., and **El-Deiry, W.S.** CARPs negatively regulate levels of phosphorylated p53. 97th Annual AACR meeting, Washington, D.C., April 2006.

137- Dorsey, J.F., and **El-Deiry, W.S.** Role of p53 in TRAIL-induced apoptosis in glioblastoma multiforme and modulation by taxol, rapamycin or temozolomide. 97th Annual AACR meeting, Washington, D.C., April 2006.

138- Plastaras, J.P., Soto, N.M., Dicker, D.T., Flaherty, K.T., Smith, C.D., and **El-Deiry, W.S.** Sorafenib (BAY 43-9006) slows cell cycle progression, is a TRAIL sensitizer, but is not a radiosensitizer. 97th Annual AACR meeting, Washington, D.C., April 2006.

139- Navaraj, A., Dicker, D.T., and **El-Deiry, W.S.** Transformation of DNA repair-deficient XPC fibroblasts and mammary epithelial cells with BRCA1 siRNA knockdown. 97th Annual AACR meeting, Washington, D.C., April 2006.

140- Ackermann, J.M., Halazonetis, T.D., and **El-Deiry, W.S.** Distinct pathways of upstream activation of p53 during hypoxia versus desferioxamine exposure. 97th Annual AACR meeting, Washington, D.C., April 2006.

141- Finnberg, N.K., Matthew, E., Bernhard, E., Klein-Szanto, A., and **El-Deiry, W.S.** Decreased survival, chronic inflammation and tumor susceptibility of irradiated DR5-null mice. 97th Annual AACR meeting, Washington, D.C., April 2006.

142- Dorsey, J., and **El-Deiry, W.S.** Combination Taxol-TRAIL therapy for Glioblastoma Multiforme with mutant p53 gene. ASCI Meeting, Chicago, IL, April 2006.

143- El-Deiry, W.S. Insights into stability and therapeutic manipulation of the effector function of p53. International p53 Meeting, New York, NY, May 2006.

144- Dorsey, J.F., Plastaras, J.P., and **El-Deiry, W.S.** p53-regulated transcriptional response to radiation in the cerebral cortex. 48th Annual ASTRO Meeting, Philadelphia, PA, November, 2006.

145- Plastaras, J.P., Dorsey, J.P., Carroll, K., Kim, S-H., Birnbaum, M.J., and **El-Deiry, W.S.** Role of PI3K/Akt signaling in TRAIL- and radiation-induced gastrointestinal apoptosis. 48th Annual ASTRO Meeting, Philadelphia, PA, November, 2006.

146- Dorsey, J.F., and **El-Deiry, W.S.** Synergistic activity of taxol and TRAIL targets glioblastoma multiforme with mutant p53. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, 2006.

147- **El-Deiry, W.S.** Optical imaging approaches for molecularly-targeted drug discovery and development. 2nd Annual Meeting of the American Academy of Nanomedicine, The National Academy of Sciences, Washington, D.C., September, 2006.

148- Kuribayashi, K., Rustgi, A.K., and **El-Deiry, W.S.** Determinants of chemo- and TRAIL sensitivity in esophageal cancer cell lines. 3rd International Conference on Tumor Progression and Therapeutic Resistance, Baltimore, MD, October, 2006.

149- Mayes, P.A., Liu, J.J., Jee, D., and **El-Deiry, W.S.** Overcoming Drug Resistance of Hypoxic Cancer Cells Using Hypoxia-Specific Small Molecule Sensitizers of TRAIL-Induced Apoptosis. 3rd International Conference on Tumor Progression and Therapeutic Resistance, Baltimore, MD, October, 2006.

150- Dorsey, J.F., Mintz, A., and **El-Deiry, W.S.** Targeted therapy of glioblastoma multiforme with paclitaxel and TNF-related apoptosis-inducing-ligand (TRAIL): a synergistic chemotherapeutic-biologic approach. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

151- Finnberg, N.K., and **El-Deiry, W.S.** Expression profiling of TRAIL receptor deficient murine E□-myc B cell lymphomas identifies potential candidate target genes for modulation of TRAIL-sensitivity. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

152- Dicker, D.T., Lerner, J., and **El-Deiry, W.S.** Hyperspectral imaging of live cells in various cell cycle stages and during apoptotic cell death. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

153- Kuribayashi, K., Mayes, P.A., Kim, S-H., Rustgi, A.K., and **El-Deiry, W.S.** High-throughput bioluminescence screening for small molecules that overcome chemo- and TRAIL-resistance in human esophageal cancer cell lines. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

154- Kazuhiro, O., and **El-Deiry, W.S.** Silencing of the NFkB p65 subunit inhibits HIF1-alpha expression during hypoxia and sensitizes HCT116 colon cancer cells to CPT11 but not TRAIL. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

155- Matthew, E., and **El-Deiry, W.S.** Replication stress, defective S-phase checkpoint and increased cell death in Plk2-deficient human cancer cells. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

156- Mayes, P.A., and **El-Deiry, W.S.** Failure of p53 to repress c-FLIP under hypoxic conditions contributes to TRAIL resistance of cancer cells. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

157- Mintz, A., Dorsey, J.F., Alavi, A., and **El-Deiry, W.S.** Multimodality in vivo imaging of viability and death in response to Apo2L/TRAIL therapy. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

158- Navaraj, A., and **El-Deiry, W.S.** Enhanced H-Ras-mediated transformation of human mammary epithelial cells following BRCA1 knockdown is associated with elevated cyclin D1, c-myc and ER-alpha. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

159- Scata, K.A., and **El-Deiry, W.S.** BRCA1 regulation of p53 stability and target selectivity. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

160- Sussman, R.T., and **El-Deiry, W.S.** Chemotherapy resistant side population (SP) has a

higher sensitivity to TRAIL than the non-SP and a 10-fold higher expression of TRAIL receptor DR4. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

161- Wang, W., and **El-Deiry, W.S.** DNA-intercalating drugs activate p53 transcriptional responses without evidence of DNA-damage signaling. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

162- Yang, W., and **El-Deiry, W.S.** CARP1/2 synergize with Mdm2 to regulate p53. 98th Annual AACR meeting, Los Angeles, CA, April, 2007.

163- Takaoka, M., Kim, S-H., Michaylira, C.Z., Stairs, D., Okawa, T., Andl, C.D., Johnstone, C.N., Rhoades, B., Lee, J., Klein-Szanto, A.J.P., El-Deiry, W.S., and Nakagawa, H. Insulin-like growth factor binding protein-3 regulates esophageal tumor formation and growth through insulin-like growth factor-dependent and independent mechanisms. Digestive Disease Week and the 108th annual meeting of the American Gastroenterological Association, Washington DC, May 19-24, 2007.

164- **El-Deiry, W.S.** Molecular imaging and drug discovery in GI cancer. Annual SPORE Investigator Workshop, Baltimore, MD, July, 2007.

165- **El-Deiry, W.S.** Modulation of sensitivity & imaging therapeutic response of hypoxic cancer cells. 60th Anniversary Symposium, MD Anderson Cancer Center, Houston, TX, October, 2007.

166- Liu, Y.Y., Christian, N.A., and **El-Deiry, W.S.** Observation of Fenbendazole fluorescent effect in small animal optical imaging. 99th Annual AACR meeting, San Diego, CA, April, 2008.

167- Yang, W., Chen, J., and **El-Deiry, W.S.** Novel pathway of MDM2 stabilization by CARP2 that involves 14-3-3□ degradation. 99th Annual AACR meeting, San Diego, CA, April, 2008.

168- Tian, X., Yang, W., Navaraj, A., and **El-Deiry, W.S.** Molecular imaging of p53 mRNA. 99th Annual AACR meeting, San Diego, CA, April, 2008.

169- Hart, L.S., Dicker, D.T., Grimberg, A., and **El-Deiry, W.S.** IGF-1 enriches the side population of colon and breast cancer cell lines. 99th Annual AACR meeting, San Diego, CA, April, 2008.

170- Abdulghani, J., Mayes, P.A., Dicker, D.T., Smith, C.D., Humphreys, R.C., and **El-Deiry, W.S.** Sorafenib sensitizes hepatocellular carcinoma cells to TRAIL or TRAIL receptor agonist antibodies. 99th Annual AACR meeting, San Diego, CA, April, 2008.

171-Hart, L.S., Dicker, D.T., Fels, D.R., Koumenis, C., and **El-Deiry, W.S.** Proteasome inhibition: Preferentially targeting the putative cancer stem cell. 99th Annual AACR meeting, San Diego, CA, April, 2008.

172- Ackermann, J.M., and **El-Deiry, W.S.** Stabilization of p53 by nutlin-3 promotes the selection of cells with non-functional p53. 99th Annual AACR meeting, San Diego, CA, April, 2008.

173- Zhou, L., Dicker, D.T., Wang, W., and **El-Deiry, W.S.** Prediction of proapoptotic anticancer therapeutic response by optical imaging of death inducing ligand-receptor interaction. 99th Annual AACR meeting, San Diego, CA, April, 2008.

174- Matthew, E.M., Liu, Y.Y., Dicker, D.T., and **El-Deiry, W.S.** Potential role of Polo-like kinase 2 in tumor suppression and resistance to CPT-11. 99th Annual AACR meeting, San Diego, CA, April, 2008.

175- Xu, S-Q., Yang, W., and **El-Deiry, W.S.** DR4-AP/PARP10, a novel modulator of TRAIL-induced death receptor mediated apoptosis. 99th Annual AACR meeting, San Diego, CA, April, 2008.

176- Navaraj, A., and **El-Deiry, W.S.** Characterization of EMT and in vivo bio-imaging of transformed mammary epithelial cells with H-Ras over-expression and BRCA1 siRNA knockdown. 99th Annual AACR meeting, San Diego, CA, April, 2008.

177- Finnberg, N., Wambi, C., Ware, J.H., Kennedy, A.R., and **El-Deiry, W.S.** An in vivo investigation in mice of the acute apoptotic response following proton-beam radiation. 99th Annual AACR meeting, San Diego, CA, April, 2008.

178- Dolloff, N.G., Mayes, P.A., Dicker, D.T., Humphreys, R.C., and **El-Deiry, W.S.** Novel target of lapatinib enhances anti-tumor activity via TRAIL sensitization. 99th Annual AACR meeting, San Diego, CA, April, 2008.

179- Mayes, P.A., Liu, J.J., Kuribayashi, K., Jee, D.I.H., Dorsey, J.F., Dicker, D.T., Brown, J.M., Furth, E.E., and **El-Deiry, W.S.** Overcoming drug resistance of hypoxic cancer cells and tumors via stabilization of c-Myc protein through inhibition of GSK3□. 99th Annual AACR meeting, San Diego, CA, April, 2008.

180- Zhou, L., Dicker, D.T., Wang, W., and **El-Deiry, W.S.** Prediction of pro-apoptotic anti-cancer therapeutic response by visualization of death receptors and specific markers of apoptosis. 100th Annual AACR meeting, Denver, CO, April 2009.

181- Finnberg, N.K., and **El-Deiry, W.S.** GI-toxicity in mice in vivo following targeting of TRAIL-R in combination with CPT-11 and 5-fluorouracil. 100th Annual AACR meeting, Denver, CO, April 2009.

182- Wang, W., and **El-Deiry, W.S.** p53 and p73 transactivate the proapoptotic early growth response factor, EGR2, and its expression is induced by small molecules that restore p53 signaling in tumor cells. 100th Annual AACR meeting, Denver, CO, April 2009.

183- Dolloff, N., Mayes, P., Dicker, D.T., and **El-Deiry, W.S.** Lapatinib enhances TRAIL sensitivity in colorectal cancer cells via a novel EGFR/HER2-independent mechanism involving JNK activation and DR5 up-regulation. 100th Annual AACR meeting, Denver, CO, April 2009.

184- Matthew, E.M., Hart, L.S., Astrinidis, A., Navaraj, A., Dolloff, N.G., and **El-Deiry, W.S.** The role of DNA damage-inducible Polo-like kinase 2 as a tumor suppressor and target for therapy. 100th Annual AACR meeting, Denver, CO, April 2009.

185- Finnberg, N.K., Lang, K., Arunasalam, N., Motoyama, N., Zhou, B-B., and **El-Deiry, W.S.** Chk2 triggers expression of XIAP in the murine colonic epithelium following treatment with 5-FU but not CPT-11. 100th Annual AACR meeting, Denver, CO, April 2009.

186- Dews, M., Hultine, S., Wang, W., Liu, Y., Enders, G., Furth, E., **El-Deiry, W.,** and Thomas-Tikhonenko, A. Clusterin, an inhibitor of tumor growth and angiogenesis, is negatively regulated by c-Myc through miR-17-92 and the type II TGF□ receptor. Keystone meeting "MicroRNA and Cancer," June 2009.

187- Crowder, R.N., Dicker, D.T., and **El-Deiry, W.S.** Human fibroblasts exhibit diminished caspase 8 and c-Myc protein expression and are resistant to TRAIL-mediated apoptosis. American Society for Cell Biology, San Diego, CA, December, 2009.

188- Natsuizaka, M., Kalman, R., Ohashi, S., Takaoka, M., Klein-Szanto, A., **El-Deiry, W.S.,** Diehl, J.A., Herlyn, M., and Nakagawa, H. IGF-independent regulation of EMT by insulin-like growth factor binding protein-3 in transformed human esophageal cells. 101st Annual AACR meeting, Washington, D.C., April 2010.

189- Finnberg, N.K., Arunasalam, N., Lang, K., Cerniglia, G., Motoyama, N., Zhou, B-B., and **El-Deiry, W.** Targeting of DR5/TRAIL-R2 in combination with irinotecan triggers p53- and chk2-dependent gastrointestinal toxicity in mice in vivo and synergistic cell death in human gastrointestinal epithelial cells in vitro. 101st Annual AACR meeting, Washington, D.C., April 2010.

190-Dolloff, N.G., Hart, L.S., Mayes, P.A., and **El-Deiry, W.S.** Dual GSK-3□/CDK inhibitors induce multiple myeloma cell death and eliminate putative cancer stem cell populations. 101st Annual AACR meeting, Washington, D.C., April 2010.

191- Dolloff, N.G., Hart, L.S., Mayes, P.A., Dicker, D.T., Humphreys, R.C., Gilmer, T.M., and **El-Deiry, W.S.** Novel anti-tumor activity of lapatinib derives from off-target up-regulation of TRAIL death receptors. 101st Annual AACR meeting, Washington, D.C., April 2010.

192- Wang, W., Katz, S.I., Abdulghani, J., Dicker, D., and **El-Deiry, W.S.** Quinacrine sensitizes hepatocellular carcinoma cells to TRAIL via up-regulating DR5 and eradicating MCL-1. 101st Annual AACR meeting, Washington, D.C., April 2010.

193- Hart, L.S., Finnberg, N., Dolloff, N.G., Rodgers, Z.B., Dicker, D.T., Thomas-Tikhonenko, A.,

and **El-Deiry, W.S.** High-resolution imaging and anti-tumor effects of GFP(+) bone marrow-derived cells homing to syngeneic mouse colon tumors. 101st Annual AACR meeting, Washington, D.C., April 2010.

194- Hart, L.S., Dicker, D.T., Grimberg, A., Christensen, J., and **El-Deiry, W.S.** The fully human IGF-1 receptor antibody, CP-751,871, targets putative colon cancer stem cell populations. 101st Annual AACR meeting, Washington, D.C., April 2010.

195- Allen, J.E., Patel, L., Krigsfeld, G., Mayes, P.A., Wu, G.S., and **El-Deiry, W.S.** Breflate upregulates TRAIL gene transcription in Bax-null cells and induces TRAIL-mediated apoptosis independently of p53 in TRAIL-sensitive tumor lines. 101st Annual AACR meeting, Washington, D.C., April 2010.

196- Crowder, R.N., Dicker, D.T., and **El-Deiry, W.S.** Diminished caspase 8 and c-Myc protein expression in human fibroblasts provides insight into normal cell resistance to TRAIL-mediated apoptosis. 101st Annual AACR meeting, Washington, D.C., April 2010.

197- Scata, K.A., and **El-Deiry, W.S.** The DNp73 isoform provides novel insights into the regulation of p53 by BRCA1 to favor cell survival over cell death. 101st Annual AACR meeting, Washington, D.C., April 2010.

198- Allen, J.E., Krigsfield, G., Mayes, P.A., Patel, L., Dicker, D.T., Wu, G.S., and **El-Deiry, W.S.** The small molecule TIC10 has potent anti-cancer efficacy mediated by induction of TRAIL production in normal and tumor cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

199- Scata, K.A., and **El-Deiry, W.S.** BRCA1 regulates p53 target expression via DNp73. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

200- Hong, B., Chen, F., Dicker, D.T., and **El-Deiry, W.S.** Restoration of p53 pathway signaling and apoptotic induction by prodigiosin and its structurally-related compound (NSC247562) in p53-deficient human colon carcinoma cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

201- Abdulghani, J., Allen, J.E., Dicker, D.T., Smith, C.D., Humphreys, R.C., and **El-Deiry, W.S.** Sorafenib sensitizes solid tumors to TRAIL or TRAIL receptor agonist antibodies. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

202- Peters, K.L., Allen, J.E., Dicker, D.T., Das, A., Joudeh, J., and **El-Deiry, W.S.** CTC profiling: Integration of biomarker analysis with current Veridex CellSearch technology. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

203- Finnberg, N.K., Arunasalam, N., Lang, K., Cerniglia, G., Motoyama, N., Zhou, B-B., and **El-Deiry, W.S.** Chk2-inhibition promotes increased killing of human colorectal cancer cells and protects from gastrointestinal toxicity following irinotecan/TRAIL death receptor agonists (TDRA). 102nd Annual AACR meeting, Orlando, FL, April, 2011.

204- Dolloff, N.G., Mayes, P., Dicker, D., and **El-Deiry, W.** Sangivamycin-like molecules (SLMs) suppress the expression of oncogenic gene translocation products and induce apoptosis of multiple myeloma cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

205- Das, A., Allen, J.E., Dicker, D.T., Peters, K.L., Joudeh, J., and **El-Deiry, W.S.** Quantum Dot multiplexing of prognostic marker and stem cell marker expression in colorectal cancer circulating tumor cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

206- Crowder, R.N., Dicker, D.T., and **El-Deiry, W.S.** Decreased caspase 8 protein expression and incomplete caspase 3 activation in TRAIL-resistant normal human fibroblasts and epithelial cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

207- Navaraj, A., Dicker, D.T., Dolloff, N., and **El-Deiry, W.S.** Multiplexed detection of phospho-ERK as a marker of H-Ras signaling, EGFR and cancer stem cell marker expression in breast cancer cells recovered from human blood. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

208- Gallant, J-N., Wang, W., Dolloff, N.G., Allen, J.E., and **El-Deiry, W.S.** Novel combinatorial Quinacrine cancer therapies for advanced colon cancer. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

209- Dolloff, N.G., Mayes, P., Hart, L., Dicker, D., and **El-Deiry, W.S.** Off-target lapatinib activity upregulates TRAIL death receptors in colon cancer cells. 102nd Annual AACR meeting, Orlando, FL, April, 2011.

210- **El-Deiry, W.S.** Personalizing colorectal cancer therapy at Penn State through CTC analysis, tumor genetics, and host drug pharmacokinetic measurements. Annual Meeting of the National Functional Genomics Center (NFGC), Clearwater, FL, October, 2011.

211- Cazanave, S.C., Mott, J.L., Bronk, S.F., Werneburg, N.W., Masuoka, H., Guicciardi, M.E., Fingas, C.D., Charlton, M.R., **El-Deiry, W.S.,** Kaufmann, S.H., and Gores, G.J. Death receptor 5 signaling promotes hepatocyte Lipoapoptosis. (ID# 1128410) 2011 AASLD Annual Meeting ('The Liver Meeting'), San Francisco, CA, November, 2011.

212- Dolloff, N.G., Talamo, G., Dicker, D.T., and **El-Deiry, W.S.** Sangivamycin-Like Molecule 6 (SLM6) exhibits potent and selective anti-multiple myeloma activity through inhibition of P-TEFb. AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Meeting, San Francisco, CA, November, 2011.

213- Scata, K.A., and **El-Deiry, W.S.** Managing the cross talk: BRCA1 and its regulation of the p53 family, E2f1/Rb and apoptosis. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

214- Das, A., Joudeh, J., Peters, K.L., Allen, J.E., Zheng, S., Dicker, D.T., Yang, Z., and **El-Deiry, W.S.** A population of metastatic colorectal cancer (mCRC) patients with radiologically proven liver metastasis and EpCAM expressing primary tumors show low circulating tumor cell counts by Veridex CellSearch. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

215- Navaraj, A., Dicker, D.T., and **El-Deiry, W.S.** Mouse models for detection of circulating tumor cells from breast cancer. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

216- Hong, B., Dicker, D.T., Kopelovich, L., **El-Deiry, W.S.** Prodigiosin and its structural analogue rescue deficient p53 pathway signaling and anti-tumor effects via p73 upregulation in p53 mutant and null colorectal cancer cells. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

217- Crowder, R.N., Dicker, D.T., and **El-Deiry, W.S.** Altered caspase-8 localization and decreased caspase-8 sumoylation in TRAIL-resistant normal human fibroblasts. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

218- Matthew, E.M., Zhou, L., Yang, Z., Lamparella, N., Liu, Y.Y., and **El-Deiry, W.S.** A Multiplexed Marker-based Algorithm for Diagnosis of Carcinoma of Unknown Primary (CUP) Using Circulating Tumor Cells. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

219- Matthew, E.M., Yang, Z., **El-Deiry, W.S.** Plk2 Loss and mTOR Signaling in Advanced Colorectal Cancer. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

220- Cheng, H., Gallant, J-N., Harouaka, R., Zheng, S., and **El-Deiry, W.S.** Ex vivo characterization of CTCs isolated using the FMSA device. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

221- Cheng, H., Hong, B., Zhou, L., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Mitomycin C potentiates TRAIL-induced apoptosis through p53-independent upregulation of death receptors: evidence for the role of C-Jun N-terminal kinase activation. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

222- Das, A., Whitcomb, T.L., Allen, J.E., Dicker, D.T., Peters, K.L., **El-Deiry, W.S.** Isolation and characterization of circulating tumor cells in an orthotopic mouse model of colorectal cancer. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

223- Allen, J.E., Krigsfeld, G., Patel, A.S., Wu, G.S., Dicker, D.T., and **El-Deiry, W.S.** Potent anti-tumor effects of TIC10 require Foxo3a and TRAIL gene upregulation. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

224- Gallant, J-N., Cheng, H., Harouaka, R., Zheng, S., and **El-Deiry, W.S.** In vivo drug sensitivity testing of CTCs isolated using the FMSA device. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

225- Abdulghani, J., Gallant, J.N., Whitcomb, T., Dicker, D., Smith, C.D., Goldenberg, D., and **El-Deiry, W.S.** Quinacrine and sorafenib combination as potential therapy for anaplastic thyroid cancer. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

226- Peters, K.L., Dicker, D.T., Abdallah, K., Dhar, A., Woolfson, A., and **El-Deiry, W.S.** The IGF1 inhibitor BMS-754807 synergizes with Lapatinib in colorectal cancer cell lines. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

227- Zhou, L., Yang, Z., Baker, M., Dicker, D.T., and **El-Deiry, W.S.** Multispectral imaging of mismatch repair proteins in colorectal cancers and tumor cells isolated from blood. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

228- Zhang, S., Hong, B., Kopelovich, L., **El-Deiry, W.S.** A novel small molecule p53-pathway restoring compound suppresses colorectal cancer cells via p73. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

229- Prabhu, V.V., Hong, B., Allen, J.E., Dicker, D.T., Navaraj[1] A., Kopelovich, L., and **El-Deiry, W.S.** Anti-tumor effects of the p53-pathway restoring compound Prodigiosin in colorectal Cancer involve effects on apoptotic signaling, angiogenesis and cancer stem cells. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

230- Dolloff, N.G., Zhou, L., Peters, K., Navaraj, A., Allen, J.E., Das, A., Dicker, D.T., Humphreys, R., and **El-Deiry, W.S.** Multiplexing markers of response to sorafenib/mapatumumab combination therapy in hepatocellular carcinoma circulating tumor cells. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

231- Sheikh, H., Matthew, E., and **El-Deiry, W.S.** Development of gamma-H2AX assay to assess toxicity and efficacy from chemotherapy in circulating tumor cells (CTCs) and peripheral blood lymphocytes. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

232- Allen, J.E., Patel, A.S., Dicker, D.T., Sheehan, J.M., Glantz, M.J., and **El-Deiry, W.S.** Circulating tumor cells in the peripheral blood and cerebrospinal fluid of patients with central nervous system metastases. 103rd Annual AACR meeting, Chicago, IL, March 31-April 4, 2012.

233- Harouaka, R., Zhou, M-D., Khan, W.J., Yeh, T.Y-T., Zheng, S-Y., Gallant, J-N., Cheng, H., and **El-Deiry, W.S.** Flexible micro spring array (FMSA) device for viable CTC culture and drug efficacy testing. 1st Advances in Circulating Tumor Cells (ACTC) from Basic Research to Clinical Practice, Athens, Greece, Sept. 26-29, 2012.

234- Bhardwaj, A., Brooke, A., Dye, C., Yeasted, N., McGarrity, T., Mathew, A., Peiffer, L., Mani, H., Staveley-O'Carroll, K., Gusani, N., Kimchi, E., Kaifi, J., **El-Deiry, W.,** and Moyer, M. Chemotherapy for Ablation and Resolution of Mucinous Pancreatic Cysts (CHARM) Trial: Initial Proof-of-Concept Index Case for this Prospective, Randomized, Double-Blinded, Single-Center Study. American College of Gastroenterology 2012 Annual Scientific Meeting and Postgraduate Course, Las Vegas, NV, Oct 19-24, 2012.

235- Zhou, L., Maidment, A., **El-Deiry, W.,** Karunamuni, R., and Katz, S. Tumor growth inhibition following serial small animal CT. World Molecular Imaging Congress, Dublin, Ireland, Sept 5-8, 2012.

236- Kaifi, J.T., Kunkel, M., Allen, J.E., Dicker, D.T., Peters, K.L., Das, A., Kimchi, E.T., Staveley-

O'Carroll, K.F., and **El-Deiry, W.S.** Circulating tumor cell numbers in colorectal cancer patients with different metastatic spread patterns. American College of Surgeons' 98th Annual Clinical Congress, Chicago, IL, Sept 30-Oct 4, 2012.

237- Patel, A.S., Allen, J.E., Dicker, D.T., Rizzo, K., Sheehan, J.M., Glantz, M.J., and **El-Deiry, W.S.** Monitoring circulating tumor cells in the cerebrospinal fluid and peripheral blood of patients with brain metastases undergoing intrathecal chemotherapy. 17th Annual Scientific Meeting & Education Day of the Society for Neuro-Oncology. Washington D.C., Nov 15-18, 2012.

238- Kaifi, J.T., Kunkel, M., Allen, J.E., Dicker, D.T., Das, A., Gusani, N.J., Reed, M.F., Kimchi, E.T., Staveley-O'Carroll, K.F., and **El-Deiry, W.S.** Presence of circulating tumor cells in patients with resectable colorectal cancer lung metastases is a potential indicator for extrathoracic disease. Academic Surgical Congress, New Orleans, LA, Feb 5-7, 2013.

239- Imperato, G.H., Allen, J.E., and **El-Deiry, W.S.** Characterization of TIC10, a novel small molecule inducer of TRAIL, in combination with chemotherapy for lymphoma in vitro. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

240- Lim, B., Dolloff, N.G., Allen, J.E., Dicker, D.T. and **El-Deiry, W.S.** Lapatinib restores TRAIL-mediated apoptosis in TRAIL-resistant Triple Negative Breast Cancer (TNBC) through an off-target strategy that appears to be independent of increased death receptor expression. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

241- Abdulghani, J., Gallant, J., Whitcomb, T., Dicker, D., Goldenberg, D., Smith, C.D., Finnberg, N., and **El-Deiry, W.S.** Quinacrine and sorafenib combination as potential therapy for anaplastic thyroid cancer. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

242- Zhou, L., Zhang, S., Dicker, D.T., Rehemtulla, A., and **El-Deiry, W.S.** Anticancer ERK kinase inhibitor screening with molecular imaging. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

243- Zhang, S., Zhou, L., Hong, B., Warfel, N., van den Heuvel, A., Dicker, D.T., Kopelovich, L., and **El-Deiry, W.S.** A new small molecule compound restoring p53 pathway induces cell death via active p73 and degradation of mutant p53 in colorectal cancer cells. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

244- Warfel, N.A., Dolloff, N.G., and **El-Deiry, W.S.** Cyclin Dependent Kinase 1 regulates HIF-1□ expression to promote tumorigenesis. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

245- Peters, K.L., Dicker, D.T., Finckenstein, F.G., Woolfson, A., and **El-Deiry, W.S.** The IGF1 receptor/insulin receptor dual kinase inhibitor BMS-754807 targets the cancer stem cell population in addition to its synergism with Lapatinib in colorectal cancer. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

246- Das, A., Dicker, D.T., Harouaka, R., Zheng, S., Warfel, N., Staveley-O'Carroll, K.F., **El-Deiry, W.S.**, and Kaifi, J.T. Perioperative detection of circulating tumor cells in patients undergoing colorectal cancer liver and lung metastasectomy: Comparing CellSearch and FMSA technologies and investigating the role of EMT. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

247- Navaraj, A., Nguyen, K., Lim, B., Dicker, D.T., and **El-Deiry, W.S.** Drug screening for small molecules targeting BRCA1-deficient cells. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

248- Gokare, P., Finnberg, N., Allen, J., Dai, J., and **El-Deiry, W.S.** p53-dependent expression of the fluorouracil (5-FU) catabolic enzyme dihydropyrimidine dehydrogenase (DPD) in mouse liver. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

249- Crowder, R.N., Dicker, D.T., and **El-Deiry, W.S.** Altered caspase-8 protein expression and activity in TRAIL-resistant normal human fibroblasts. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

250- Prabhu, V.V., Allen, J.E., Dicker, D.T., Ding, Y., and **El-Deiry, W.S.** Therapeutic targeting of

colorectal cancer stem cells by TRAIL-inducing small molecule TIC10. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

251- Allen, J.E., Patel, A.S., Dicker, D.T., Sheehan, J.M., Glantz, M.J., and **El-Deiry, W.S.** Modeling circulating tumor cells in the peripheral blood and CSF of breast cancer patients. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

252- Allen, J.E., and **El-Deiry, W.S.** Kinase library siRNA screen identifies KSR1 as a synergistic therapeutic target in combination with TIC10. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

253- van den Heuvel, A.P.J., Wang, W., Kopelovich, L., and **El-Deiry, W.S.** A screen to identify novel p53 family member activity-restoring compounds with a focus on p73. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

254- Hong, B., Dicker, D.T., Kopelovich, L., and **El-Deiry, W.S.** Identification of novel p53-pathway restoration compounds by a high-throughput drug screen. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

255- Matthew, E.M., Gallant, J-N., Zhou, L., Yang, Z., Drabick, J.J., Truica, C.I., Lamparella, N.E., Dicker, D.T., and **El-Deiry, W.S.** Isolation, culture and immunophenotyping of live patient-derived circulating tumor cells. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

256- Kline, C.L., Scicchitano, A., Zhu, J., Mackley, H., Harvey, H., Beachler, C., Sheikh, H., Koltun, W., McKenna, K., Poritz, L., Messaris, E., Stewart, D., Sivik, J., and **El-Deiry, W.S.** Pharmacokinetic monitoring of 5-FU appears beneficial in Stage II-IV colorectal cancer patients treated with different 5-FU-based chemotherapeutic regimens. 104th Annual AACR meeting, Washington, DC, April 6-10, 2013.

257- Ishizawa, J., Kojima, K., Dilip, A., Ruvolo, V., Carter, B.Z., Allen, J.E., Neelapu, S.S., McDonnell, T., Talekar, M., **El-Deiry, W.S.**, Kwak, L.W., and Andreeff, M. ONC201 exerts p53-independent cytotoxicity through TRAIL and DR5 induction in mantle cells lymphomas. 2013 ASH Annual Meeting and Exposition, New Orleans, LA, December 7-10, 2013.

258- Talekar, M.K., Allen, J.E., and **El-Deiry, W.S.** ONC201 (TIC10) induces TRAIL and cell death in preclinical models of pediatric lymphoma. 2013 ASH Annual Meeting and Exposition, New Orleans, LA, December 7-10, 2013.

259- Matthew, E.M., Zhou, L., Yang, Z., Dicker, D.T., Holder, S.L., Lim, B., Harouaka, R., Zheng, S-Y., Drabick, J.J., Lamparella, N., Truica, C.T., and **El-Deiry, W.S.** A multiplexed marker-based algorithm for diagnosis of carcinoma of unknown primary using CTCs. 4th International Conference on Tumor Progression and Therapeutic Resistance, Boston, MA, March 9-11, 2014.

260- Prabhu, V.V., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Small molecule ONC201/TIC10 targets chemotherapy-resistant colorectal cancer stem cells in vitro and in vivo. 4th International Conference on Tumor Progression and Therapeutic Resistance, Boston, MA, March 9-11, 2014.

261- Prabhu, V.V., Hong, B., Allen, J.E., Zhang, S., Dicker, D.T., and **El-Deiry, W.S.** p53 pathway restoring small molecule Prodigiosin targets chemotherapy-resistant colorectal cancer stem cells in vitro and in vivo via p73 activation. 105th Annual AACR meeting, San Diego, CA, April 5-9, 2014.

262- Zhang, S., Zhou, L., Kline, C.L.B., Dicker, D.T., and **El-Deiry, W.S.** Small molecule compound NCI-8 induces mutant p53 degradation via inhibition of the MDM2-Hsp90 axis. 105th Annual AACR meeting, San Diego, CA, April 5-9, 2014.

263- Matthew, E.M., Zhou, L., Lim, B., Lamparella, N.E., Dicker, D.T., Gallant, J-N., Joshi, M., Holder, S.L., Harouaka, R., Zheng, S., Drabick, J.J., Truica, C.I., Yang, Z., and **El-Deiry, W.S.** Immunophenotyping circulating tumor cells in patients with unknown primary. 105th Annual AACR meeting, San Diego, CA, April 5-9, 2014.

264- **El-Deiry, W.S.**, Xiu, J., Lim, B., Scicchitano, A., Feeley, E., Harvey, H.A., and Yee, N.S. Molecular profiling of 6,892 colorectal cancer patients to identify potential treatment options. 50th Annual ASCO meeting, Chicago, IL, May 30-June 3, 2014.

265- Prabhu, V.V., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Small molecule ONC201/TIC10 targets chemotherapy-resistant colorectal cancer stem cells in vitro and in vivo in an Akt- and TRAIL-dependent manner. Case Western Reserve University National Center for Regenerative Medicine Cancer Stemm Cell Conference, Cleveland, OH, August, 2014.

266- Allen, J.E., Ishizawa, J., **El-Deiry, W.**, and Andreeff, M. ONC201 possesses a benign safety profile at highly efficacious doses in normal human cells and animal toxicology studies. 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

267- Lulla, A.R., Kline, C.L.B., Prabhu, V.V., Wagner, J., Hernandez, L., Dicker, D.T., Dolloff, N.G., Barth, B.M., Pu, J.J., Claxton, D.F., Allen, J.E., and **El-Deiry, W.S.** Caspase-dependent anti-tumor effects of ONC201/TIC10 in acute myeloid leukemia (AML) and multiple myeloma (MM). 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

268- Prabhu, V.V., Lulla, A.R., Wagner, J., Hernandez-Borrero, L.J., Talekar, M.K., Kline, C.L., Dicker, D.T., Barth, B.M., Pu, J.J., Claxton, D.F., Allen, J.E., and **El-Deiry, W.S.** Small molecule ONC201/TIC10 induces caspase-dependent apoptosis in acute lymphoblastic leukemia cells via modulation of Bcl-2 and IAP family proteins. 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

269- Prabhu, V.V., Ishizawa, J., Zhao, D., Allen, J.E., Batchelor, T.T., Chi, A.S., Andreeff, M., and **El-Deiry, W.S.** ONC201 depletes cancer stem cells in refractory cancer patient samples. 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

270- Wagner, J.M., Prabhu, V.V., Kline, C.L., Lulla, A.R., Hernandez-Borrero, L.J., Pu, J.J., Dicker, D.T., Barth, B.M., Claxton, D.F., Allen, J.E., and **El-Deiry, W.S.** Screen of small molecule ONC201/TIC10 identifies single agent activity and combinatorial efficacy with bortezomib, rituximab or dexamethasone in killing of acute lymphoblastic leukemia cells. 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

271- Talekar, M.K., Dicker, D.T., Allen, J.E., and **El-Deiry, W.S.** ONC201/TIC10 is effective as a monoagent and synergizes with chemotherapy to induce cell death in non-Hodgkin's lymphoma. 56th Annual ASH meeting, San Francisco, CA, Dec 6-9, 2014.

272- Hernandez-Borrero, L.J., Zhang, S., and **El-Deiry, W.S.** Small molecule identification for the restoration of the p53 pathway through p73 and by degradation of mutant p53. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

273- Talekar, M.K., Dicker, D., Allen, J., and **El-Deiry, W.** ONC201/TIC10 is effective as a monoagent and synergizes with chemotherapy to induce cell death in non-hodgkin's lymphoma. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

274- Matthew, E.M., Zhou, L., Vijayvergia, N., Dicker, D.T., Gustafson, K.S., Cooper, H.S., Ross, E.A., Lim, B., Harouaka, R., Zheng, S-Y., Lamparrella, N.E., Drabick, J.J., Truica, C.I., Yang, Z., and **El-Deiry, W.S.** A multiplexed marker-based algorithm for diagnosis of carcinoma of unknown primary using circulating tumor cells. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

275- Kline, C.L.B., Lulla, A.R., Dicker, D.T., Allen, J.E., and **El-Deiry, W.S.** TRAIL pathway inducer ONC201/TIC10 primes multiple myeloma cells (MM) for apoptosis by down-regulating X-linked inhibitor of apoptosis. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

276- Wagner, J., Kline, C.L., Pottorf, R.S., Nallaganchu, B.R., Olson, G.L., Dicker, D.T., Allen, J.E., and **El-Deiry, W.S.** Cytotoxicity, biochemical activity, and structural analysis of ONC201 clinical material and comparisons to a biologically inactive isomer. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

277- Allen, J.E., Ishizawa, J., **El-Deiry, W.S.,** and Andreeff, M. In vitro efficacy profiling of ONC201 in cancer cells reveals sensitivity pattern that is consistent with ER stress response. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

278- Wang, W., Claxton, D.F., Wang, H-G., and **El-Deiry, W.S.** Synergistic effect of quinacrine in combination with decitabine for the treatment of acute myeloid leukemia cells in vitro: implication

for treatment of AML in the elderly. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

279- Allen, J.E., and **El-Deiry, W.S.** ONC201 is non-toxic at efficacious doses in vitro and in vivo. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

280- Prabhu, V.V., Zhang, S., Hong, B., Allen, J.E., Lulla, A., Dicker, D.T., and **El-Deiry, W.S.** Small molecule prodigiosin-mediated p53 pathway restoration and inhibition of self-renewal in colorectal cancer involves c-Jun-mediated delta-N-p73 inhibition and p73 activation. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

281- Zhou, L., Matthew, E.M., Dicker, D.T., and **El-Deiry, W.S.** Identification and characterization of circulating tumor cells with multiplexed quantum dot conjugated antibodies. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

282- Prabhu, V.V., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Anti-tumor effects of ONC201/TIC10 in colorectal cancer involve targeting both bulk tumor cells and cancer stem cells via an Akt-Foxo3a-TRAIL-dependent mechanism. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

283- Kline, C.L., Van den Heuvel, P., Allen, J.E., Dicker, D., and **El-Deiry, W.S.** Early integrated stress response induction of ATF4 is required for the anticancer effects of the dual Akt/ERK inhibitor and TRAIL pathway inducer ONC201/TIC10. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

284- Zhang, S., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** Small molecule compound NCI-8 induces ERK2-dependent mutant-p53 protein degradation. 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

285- Abdulghani, J., Gallant, J-N., Gokare, P., Cooper, T., Liao, J., Whitcomb, T., Liu, J., Goldenberg, D., Finnberg, N., and **El-Deiry, W.S.** The drug combination sorafenib and quinacrine targets the expression of Mcl-1 – an anti-apoptotic protein and candidate prognostic factor in anaplastic thyroid cancer (ATC). 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

286- Finnberg, N.K., Gokare, P., Arunasalam, N., Lang Kuhs, K.A., Cerniglia, G., Yagita, H., Takeda, K., Motoyama, N., and **El-Deiry, W.S.** DR5-targeting sensitizes Lgr5+ stem cells to p53 and Chk2-dependent chemotherapy-induced cell death and produces dose-limiting gastrointestinal toxicity (GIT). 106th Annual AACR meeting, Philadelphia, PA, April 18-22, 2015.

287- Gatalica, Z., Vijayvergia, N., Vranic, S., Xiu, J., Reddy, S.K., Snyder, C.L., Lynch, H.T., and **El-Deiry, W.S.** Therapeutic biomarker differences between MSI-H and MSS colorectal tumors. 51st Annual ASCO meeting, Chicago, IL, May 29-June 2, 2015.

288- Vijayvergia, N., Innocent, J., Bhatia, A.K., Shameem, R., Xiu, J., Gatalica, Z., Grivennikov, S., and **El-Deiry, W.S.** Reduced PD-1/PD-L1 expression in KRAS-mutant versus wild-type microsatellite instable (MSI-H) colorectal cancer (CRC) and association of Wnt pathway corepressor TLE-3. 51st Annual ASCO meeting, Chicago, IL, May 29-June 2, 2015.

289- Shagisultanova, E., Vijayvergia, N., Shameem, R., Bhatia, A.K., Xiu, J., Gatalica, Z., and **El-Deiry, W.S.** Increase in BRCA2 gene mutations in microsatellite instable (MSI-H) colorectal cancer (CRC) is associated with increased c-MET expression. 51st Annual ASCO meeting, Chicago, IL, May 29-June 2, 2015.

290- Khan, N., Zhou, L., Babar, J., Allen, J., Fisher, R.I., and **El-Deiry, W.S.** ABT199 and ONC201 in Diffuse Large B Cell Lymphoma Cell Lines. 57th Annual ASH meeting, Orlando, FL, Dec 5-8, 2015.

291- Gokare, P.R., Finnberg, N., Dai, J., and **El-Deiry, W.** p53 inhibits the expression of the pyrimidine catabolic gene Dihydropyrimidine dehydrogenase (DPYD). AACR Special Conference on Metabolism and Cancer, Bellevue, WA, June 7-10, 2015.

292- Baumeister, M., Wagner, J., Kline, C.L.B., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Novel small molecule ONC201 induces cell death in triple negative and non-triple negative breast cancer

cells. Late Breaking Abstract at AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, Boston, MA, November 5-9, 2015.

293- Zhang, J., Zhou, L., Zhao, S., Dicker, D., and **El-Deiry, W.S.** CDK4/6 inhibitor PD-0332991 (Palbociclib) promotes cell death and synergizes with CPT-11 in colorectal cancer under hypoxia in vitro. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

294- Wagner, J., Olson, G., Bhaskara, N.R., Pottorf, R.S., Matthew, G.J., Benes, C.H., Tarapore, R., Stogniew, M., Schalop, L., Oster, W., Allen, J.E., and **El-Deiry, W.S.** Structure-activity relationships and mechanistic analysis of analogues of the clinical-stage anti-cancer small molecule ONC201. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

295- Wagner, J., and **El-Deiry, W.S.** Combination of ONC201 and bevacizumab significantly impacts colorectal cancer growth and metastasis in vivo. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

296- Prabhu, V.V., Allen, J.E., Zhao, D., Lulla, A.R., Kline, C.L.B., van den Heuvel, A.P.J., Lev, A., Batchelor, T.T., Dicker, D.T., Chi, A.S., and **El-Deiry, W.S.** ONC201 targets cancer stem cells in colorectal, prostate, and glioblastoma multiforme tumors via modulation of stem cell-related gene expression. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

297- Kline, C.L.B., and **El-Deiry, W.S.** ONC201 anti-cancer effects against solid tumors are mediated through eIF2a kinases HRI and PKR but are PERK-independent. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

298- Baumeister, M.D., Wagner, J., Prabhu, V.V., Kline, C.L.B., Lim, B., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** ONC201 induces cell death in triple negative, BRCA1-deficient and non-triple negative breast cancer. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

299- Lev, A., Wagner, J., Dicker, D.T., Stogniew, M., Allen, J.E., Schalop, L., Oster, W., Olson, G.L., and **El-Deiry, W.S.** ONC212 exhibits increased cytotoxicity relative to ONC201 in a subset of human pancreatic cancer cell lines. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

300- Lev, A., Lulla, A.R., Dicker, D.T., and **El-Deiry, W.S.** ONC201 induces cell death in androgen receptor positive prostate cancer cells and shows synergistic effect with anti-prostate cancer drugs. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

301- Baumeister, M.D., Wagner, J., Prabhu, V.V., Kline, C.L.B., Lim, B., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Novel small molecule ONC201 induces cell death and targets chemotherapy-resistant cancer stem-like cells in triple negative breast cancer. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

302- Wagner, J., Kline, C.L.B., Baumeister, M., and **El-Deiry, W.S.** Intra-tumoral accumulation of NK1.1/CD3+ cells and anti-metastasis effects of dose-intensified ONC201 in tumor-bearing mice. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

303- Gokare, P.R., Finnberg, N., Dai, J., Murphy, M., and **El-Deiry, W.S.** p53 represses pyrimidine catabolic gene dihydropyrimidine dehydrogenase (DPYD) expression following thymidylate synthase (TS) inhibition. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

304- Deihimi, S., Lev, A., Shagisultanova, E., Xiu, J., Slifker, M., Xu, Q., Dicker, D.T., Ross, E.A., Dunbrack, Jr., R., and **El-Deiry, W.S.** Frequent BRCA2 somatic mutations in colorectal cancer patients with microsatellite instability (MSI). 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

305- Zhang, S., Zhou, L., Dicker, D., and **El-Deiry, W.S.** Reactive oxygen species and ERK2 phosphorylation are required for NSC59984 to induce mutant p53 protein degradation and restore p53 signaling. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

306- Zhao, S., Dicker, D.T., and **El-Deiry, W.S.** Enhanced HIF1 inhibition through dual inhibition of CDK and HSP90. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

307- Lev, A., Shagisultanova, E., Deihimi, S., Dicker, D.T., Xiu, J., and **El-Deiry, W.S.** A rationale

for treatment of colorectal cancer with mitomycin C and crizotinib. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

308- Xiu, J., Soussi, T., Bender, R., Reddy, S., and **El-Deiry, W.S.** Clinico-pathological and molecular features associated with TP53 mutation in 3457 molecularly-profiled colorectal cancers (CRCs). 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

309- Xiu, J., Reddy, S., and **El-Deiry, W.S.** Expression of Class III beta-tubulin (TUBB3) in 3580 colorectal cancers (CRCs) and correlation with clinic-pathological and molecular features. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

310- Hernandez Borrero, L.J., Zhang, S., Dicker, D., and **El-Deiry, W.S.** Anti-tumor effects and destabilization of R175H-mutant p53 by CB002, a p53-pathway restoring small molecule that stimulates autophagy. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

311- Tian, X., Zhang, S., and **El-Deiry, W.S.** Synthesis and anticancer activitiy of novel Prodigiosin analogs. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

312- Matthew, E.M., Yang, Z., Peri, S., Vijayvergia, N., Ross, E., and **El-Deiry, W.S.** Plk2 loss occurs commonly in colorectal carcinomas but not in adenomas. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

313- Madhukar, N.S., Elemento, O., Benes, C.H., Garnett, M.J., Stein, M., Bertino, J.R., Kaufman, H.L., Arrillaga-Romany, I., Batchelor, T.T., Schalop, L., Oster, W., Stogniew, M., Andreeff, M., **El-Deiry, W.S.,** and Allen, J.E. D2-like dopamine receptor antagonism by ONC201 identified by confluence of computational, receptor binding, and clinical studies. 107th Annual AACR meeting, New Orleans, LA, April 16-20, 2016.

314- Christiansen, S.A., Feldman, R., Atkins, M.B., **El-Deiry, W.S.,** Venderwalde, A.M., Pishvaian, M.J., Hwang, J.J., Flaherty, L.E., Denlinger, C.S., Reddy, S.K., Marshall, J., and Salem, M.E. Comparative molecular analyses of BRAF-V600E mutant tumors: colorectal cancers (CRC) vs. melanomas. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

315- Salem, M.E., Marshall, J., Feldman, R., Pishvaian, M.J., **El-Deiry, W.S.,** Hwang, J.J., Lou, E., Wang, H., Gatalica, Z., Reddy, S.K., Shields, A.F., and Philip, P.A. Comparative molecular analyses of pancreatic cancer (PC): KRAS wild type vs. KRAS mutant tumors and primary tumors vs. distant metastases. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

316- Marshall, J., Xiu, J., **El-Deiry, W.S.,** Hwang, J.J., Gatalica, Z., Pishvaian, M.J., Philip, P.A., Reddy, S.K., Shields, A.F., and Salem, M.E. Comparative molecular analyses of colon versus rectal tumors. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

317- Salem, M.E., Xiu, J., Khan, S.A., Wang, H., Smaglo, B.G., **El-Deiry, W.S.,** Hwang, J.J., Pishvaian, M.J., Lou, E., Shields, A.F., Philip, P.A., Gatalica, Z., Reddy, S.K., and Marshall, J. Comparative molecular analyses of esophageal cancer: adenocarcinoma vs. squamous cell carcinomas, and impact on outcome. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

318- Arguello, D., **El-Deiry, W.S.,** Zhou, L., Reddy, S.S., Scott, W.J., Abass, A.E., Kaiser, L.R., Hallman, M.A., Sawhney, R., Jeong, W., Kim, E.S., Liu, S.V., Ma, P.C., Gatalica, Z., Reddy, S.K., Borghaei, H., and Testa, J.R. Incidence of ALK, cKIT, cMET, EGFR, PD1/PD-L1, and JAK3 alternations in 170 malignant pleural mesotheliomas (MPM) and 102 peritoneal mesotheliomas. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

319- Xiu, J., **El-Deiry, W.S.,** Campbell, P., Zhou, L., Duncan, J.S., Gatalica, Z., Reddy, S.K., Chernoff, J., and Cohen, S.J. Ras family mutation patterns in a large cohort of CRCs. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

320- **El-Deiry, W.S.,** Xiu, J., Obeid, E., Mehra, R., Astsaturov, I.A., Wagner, J., Lev, A., Baumeister, M., Shields, A.F., Salem, M.E., Hwang, J.J., Vijayvergia, N., Denlinger, C.S., Dotan, E., Borghaei, H., Pishvaian, M.J., Philip, P.A., Marshall, J., Cohen, S.J., Gatalica, Z., and Reddy, S. Tumor profiling of liver metastases (LM) from CRC, NSCLC, pancreatic (PC), breast (BC) and gastroesophageal (GE) tumors reveals differences versus primary tumors including in cMET, MYC, CDK4, Her2, b-catenin and PD1. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

321- **El-Deiry, W.S.** and Wagner, J. Combination of ONC201 and bevacizumab significantly impacts colorectal cancer (CRC) growth and metastases in vivo. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

322- Lev, A., Lulla, A.R., Dicker, D.T., and **El-Deiry, W.S.** Preclinical efficacy of enzalutamide plus investigational drug ONC201 against androgen receptor AR(+) positive prostate cancer cells. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

323- Baumeister, M.D., Wagner, J., Prabhu, V.V., Kline, C.L.B., Allen, J.E., Dicker, D.T., and **El-Deiry, W.S.** Preclinical activity of new investigational drug ONC201 in triple-negative and non-triple negative and BRCA1-deficient breast cancer cells. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

324- Wagner, J., Olson, G., Nallaganchu, B.R., Pottorf, R., Stogniew, M., Schalop, L., Oster, W., Garnett, M., McDermott, U., Benes, C., Tarapore, R., Allen, J.E., and **El-Deiry, W.S.** Structure-activity relationships (SAR) and mechanistic analysis of clinical-stage anti-cancer small molecule ONC201 analogues. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

325- Lev, A., Wagner, J., Lulla, A.R., Dicker, D.T., and **El-Deiry, W.S.** Preclinical efficacy of new investigational drug ONC201 and analogues ONC212 and ON206 against patient-derived pancreatic cancer cell lines. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

326- Wagner, J., Kline, C.L.B., and **El-Deiry, W.S.** Dose-intensified ONC201 exerts anti-metastatic activity and promotes intra-tumoral recruitment of NK-cells in mice. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

327- Astsaturov, I.A., Ellis, P., Swensen, J., Arguello, D., Reddy, S.K., Gatalica, Z., and **El-Deiry, W.S.** Fusion analysis of solid tumors reveals novel rearrangmments in breast carcinomas. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

328- Ramamurthy, C., Shameem, R., Forman, A., Dolinsky, J.S., Speare, V., McFarland, R.E., **El-Deiry, W.S.,** Hall, M.J., Daly, M.B., Goldstein, L.J., and Obeid, E. Increased risk of HER2-positive breast cancer among germline CHEK2 mutation carriers with breast cancer. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

329- Marshall, J., Schwartzberg, L.S., Bepler, G., Spetzler, D., **El-Deiry, W.S.**, Xiao, N., Reddy, S.K., Kim, E.S., Poste, G.H., and Raghavan, D. Novel panomic validation of time to next treatment (TNT) as an effective surrogate outcome measure in 4729 patients. 52nd Annual ASCO meeting, Chicago, IL, June 3-7, 2016.

330- Salem, M., Philip, P., Feldman, R., Hwang, J., Pishvaian, M., Xiu, J., **El-Deiry, W.**, Reddy, S., Gatalica, Z., Trivedi, N., Zareb, A., Colton, B.S., Wang, H., Shields, A., Marshall, J. Comparative molecular analyses of pancreatic cancer: younger vs. older patients, and impact on outcome. European Society for Medical Oncology (ESMO) 2016 congress from October 7-11, 2016 in Copenhagen, Denmark.

331- Weinberg, B.A., Lenz, H-J., Arguello, D., **El-Deiry, W.S.,** Xiu, J., Gatalica, Z., Liu, Z., Chen, S., El Ghazaly, H., Hwang, J.J., Philip, P.A., Shields, A.F., Marshall, J., and Salem, M.E. Molecular characterization of squamous cell carcinoma of the anal canal (SCCA). 2017 ASCO GI Cancers Symposium, January 19-21, San Francisco, CA.

332- Marshall, J., Lenz, H-J., Xiu, J., **El-Deiry, W.S.,** Swensen, J., El Ghazaly, H., Gatalica, Z., Hwang, J.J., Philip, P.A., Shields, A.F., and Salem, M.E. Molecular variances between rectal and left-sided colon cancers. 2017 ASCO GI Cancers Symposium, January 19-21, San Francisco, CA.

333- Salem, M.E., Xiu, J., Weinberg, B.A., **El-Deiry, W.S.,** Weiner, L.M., Gatalica, Z., Liu, Z., El Ghazaly, H., Xiao, N., Hwang, J.J., Philip, P.A., Shields, A.F., Lenz, H-J., and Marshall, J. Characterization of tumor mutation burden (TMB) in gastrointestinal (GI) cancers. 2017 ASCO GI Cancers Symposium, January 19-21, San Francisco, CA.

334- Lulla, A.R., Einarson, M.B., Zhou, Y., Slifker, M., Dicker, D.T., and **El-Deiry, W.S.** miR-6883 and family miRNAs induce G1-arrest in colon cancer cells by targeting CDK4/6. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

335- Lulla, A.R., Einarson, M.B., Zhou, Y., Dicker, D.T., and **El-Deiry, W.S.** Novel miRNA-based therapeutic approach to selectively target mutant p53 in cancer. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

336- Finnberg, N.K., Gokare, P., Lev, A., Macfarlane, A., Campbell, K., Kaputa, K., Farma, J., Grasso, L., Nicolaides, N., **El-Deiry, W.** Use of 3D tumoroid systems to define immune and cytotoxic therapeutic responses based on tumoroid and tissue slice culture molecular signatures. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

337- Finnberg, N., Abdulghani, J., Ehya, H., and **El-Deiry, W.S.** Targeting of NOXA overexpression in anaplastic thyroid cancer (ATC). 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

338- Kline, C.L., Lulla, A., Wagner, J., Dicker, D., Baumeister, M., Oster, S., and **El-Deiry W.S.** Antagonism of D2-like dopamine receptors plays a role in ONC201's anti-cancer effects. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

339- Hernandez-Borrero, L.J., Zhang, S., Dicker, D.T., and **El-Deiry, W.S.** CB002, a novel p53 pathway-restoring compound induces apoptosis through NOXA expression. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

340- Madhukar, N.S., Prabhu, V.V., Doherty, F., VanEngelenburg, A., Tarapore, R., [2], Garnett, M.J., McDermott, U., Benes, C.H., Oster, W., **El-Deiry, W.S.,** Stein, M., Allen, J.E., and Elemento, O. The small molecule imipridone ONC201 is active in tumor types with dysregulation of the DRD2 pathway. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

341- Baumeister, M.D., Küçükkase, O.C., Prabhu, V.V., Kline, C.L.B., Dicker, D.T., Allen, J.E., and **El-Deiry, W.S.** ONC201 efficacy in BRCA-deficient cancer cells and synergy with PARP inhibitors in glioblastoma, breast, prostate, and ovarian cancers. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

342- Abbosh, P.H., Liu, D., Choi, W., **El-Deiry, W.,** Rosenberg, J.E., McConkey, D.J., Plimack, E.R., Van Allen, E.M. Immune correlates of pathologic response in bladder cancer patients undergoing neoadjuvant chemotherapy. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

343- Abbosh, P.H., Sikder, R.K., and **El-Deiry, W.S.** Functional characterization of *CDKN1A* loss in bladder cancer and effects on cisplatin sensitivity. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

344- Gokare, P., Finnberg, N.K., Dicker, D., Murphy, M.E., and **El-Deiry, W.S.** Didhydropyrimidine dehydrogenase (DPYD) provides resistance to 5-flurouracil in mutant p53 (mtp53) expressing colorectal cancer cells. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

345- Deihimi, S., Slifker, M., Ross, E.A., and **El-Deiry, W.S.** High EGFR somatic mutation frequency targeting the TK domain in colorectal cancer patients with Microsatellite Instability (MSI). 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

346- Zhang, S., Zhou, L., Dicker, D.T., **El-Deiry, W.S.** NSC59984 induces mutant p53 degradation via activating ERK2 pathway-MDM2 axis. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

347- Zhang, S., Zhou, L., and **El-Deiry, W.S.** Small molecule NSC59984 suppresses cancer cell growth under hypoxia. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

348- Zhang, S., Wagner, J., Zhou, L., and **El-Deiry, W.S.** Small molecule NSC59984 prevents cancer cell migration and invasion. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

349- Zhao, S., Dicker, D.T. and **El-Deiry, W.S.** Dual inhibition of CDK1 and HSP90 destabilize HIF1α and synergistically induces cancer cell death. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

350- Lev, A., Lulla, A.R., Dicker, D.T., and **El-Deiry, W.S.** ONC201 targets AR and AR-V7 signaling pathways, reduces PSA and synergizes with everolimus in castration resistant prostate

cancer. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

351- Lev, A., Lulla, A.R., Wagner, J., Dicker, D.T., and **El-Deiry, W.S.** Anti-cancer efficacy of imipridones in pancreatic cancer: single agent ONC212 or combination of ONC201 with IGF1-R inhibition. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

352- Prabhu, V.V., Madhukar, N., Wagner, J., Tarapore, R., Garnett, M.J., McDermott, U., [4], Benes, C.H., Charter, N., Deacon, S., VanEngelenburg, A., Elemento, O., **El-Deiry, W.S.,** Stogniew, M., Oster, W., and Allen, J.E. Potent anti-cancer activity of the imipridone ONC206: a selective dopamine D2-like receptor antagonist. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

353- Wagner, J., Kline, C.L., Olson, G.L., Nallaganchu, B.R., Pottorf, R.S., Prabhu, V.V., Stogniew, M., Allen, J.E., and **El-Deiry, W.S.** Preclinical evaluation of the imipridone family of small molecules, including analogues of clinical-stage anti-cancer small molecule ONC201, reveals potent anti-cancer effects of ONC212. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

354- Wagner, J., Kline, C.L., Zhou, L., Zloza, A., Chesson, C.B., Newman, J.H., Kaufman, H., Bertino, J., Stein, M., and **El-Deiry, W.S.** Imipridone ONC201 promotes intra-tumoral accumulation of CD3+/NK+ cells that contribute to its anti-tumor efficacy. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

355- Wagner, J., and **El-Deiry, W.** Anti-tumor effects of imipridone ONC201 in combination with anti-angiogenic agents significantly impact on colorectal cancer growth *in vivo.* 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

356- Tian, X., Zhang, S., Lulla, A., and **El-Deiry, W.S.** P53 pathway restoring compound P306 inhibits colorectal cancer growth. 108th Annual AACR meeting, Washington, DC, April 1-5, 2017.

357- Salem, M.E., Xiu, J., Lenz, H-J., Atkins, M.B., Philip, P.A., Hwang, J.J., Gatalica, Z., Xiao, N., Gibney, G.T., **El-Deiry, W.S.,** Tan, A.R., Kim, E.S., Shields, A.F., Raghavan, D., and Marshall, J. Characterization of Tumor Mutation Load (TML) in Solid Tumors. 53rd Annual ASCO meeting, Chicago, IL, June 2-6, 2017.

358- Baker, T., Deihimi, S., Martin, L.P., Hall, M.J., Hampel, H., and **El-Deiry, W.S.** Variable DNA Mismatch Repair Associated Gene Profiles in Colorectal versus Uterine Cancers. 53rd Annual ASCO meeting, Chicago, IL, June 2-6, 2017.

359- Hyman, D.M., Laetsch, T.W., Kummar, S., DuBois, S.G., Farago, A.F., Pappo, A.S., Demetri, G.D., **El-Deiry, W.S.**, Lassen, U.N., Dowlati, A., Brose, M.S., Boni, V., Brian Turpin, B., Nagasubramanian, R., Cruickshank, S., Cox, M.C., Ku, N.C., Hawkins, D.S., Hong, D.S., and Drilon, A.E. The efficacy of larotrectinib (LOXO-101), a selective tropomyosin receptor kinase (TRK) inhibitor, in adult and pediatric TRK fusion cancers. 53rd Annual ASCO meeting, Chicago, IL, June 2-6, 2017.

360- **El-Deiry, W.S.** Imipridone ONC201, a first-in-class clinical stage cancer therapeutic triggers an integrated stress response and potent immune effects. Invited abstract for the 20th Annual John B. Little Symposium, Harvard School of Public Health, Boston, MA, October 20-21, 2017.

361- Lev, A., Lulla, A.R., Dicker, D.T., and **El-Deiry, W.S.** ONC201 inhibits AR signaling pathway by upregulating ATF3. AACR meeting on Prostate Cancer: Advances in Basic, Translational, and Clinical Research, Orlando, FL, Dec 2-5, 2017.

362- Zhou, L., Meng, F., Anasori, B., Gogotsi, Y., and **El-Deiry, W.S.** Photothermal therapy of malignant mesothelioma with delaminated MXene Ti3C2. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

363- Zhou, L., Wagner, J., and **El-Deiry, W.S.** Synergistic antitumor effect of ONC201 in combination with radiation therapy. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

364- Sikder, R.K., Szeto, L., Nachman, E., Slifker, M., **El-Deiry, W.S.**, and Abbosh, P.H. PBRM1 re-expression in *PBRM1*-mutant kidney cancer cell lines drives an interferon-γ expression signature. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

365- Sikder, R.K., **El-Deiry, W.S.**, and Abbosh, P.H. Differential effects of N-terminal vs C-terminal truncating *CDKN1A* mutations on cisplatin resistance in bladder cancer. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

366- Carnell, M., Salem, M., Atkins, M., **El-Deiry, W.S.**, Christiansen, S.A., Pishvaian, M., Hwang, J.J., Flaherty, L.E., Denlinger, C.S., Marshall, J., and Vanderwalde, A. Gene mutation and protein co-expression in melanoma and colorectal cancer by BRAF V600 mutation status. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

367- Lev, A., Lulla, A.R., Kline, C.L., Ralff, M.D., Dicker, D.T., and **El-Deiry, W.S.** The effect of ONC201 on DRD2-mediated cAMP/PKA signaling. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

368- Tian, X., Lulla, A.R., Zhang, S., Lev, A., Abbosh, P., Sikder, R., Dicker, D.T., and **El-Deiry, W.S.** Anti-cancer agent P306 restores the p53 pathway through PUMA. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

369- Hernandez-Borrero, L.J., Dicker, D.T., and **El-Deiry, W.S.** Newly identified p53 pathway-restoring compoiund CB002 and derivatives sensitize colorectal and multiple myeloma cancer cell lines to front-line cancer therapies through NOXA. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

370- Zhang, S., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** p53-restoring small molecule CB001 suppresses tumor growth and metastasis. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

371- Zhang, S., Zhou, L., and **El-Deiry, W.S.** Small molecule NSC59984 synergizes with ROS-generating agents to induce cell death via reduced GSH in cancer cells. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

372- Zhang, S., Zhou, L., Finnberg, N., and **El-Deiry, W.S.** Small molecule NSC59984 is a radio-sensitizer dependent on ERK2 and DDR but independent of wild-type p53. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

373- Lulla, A.R., Lev, A., Slifker, M., Dicvker, D.T., and **El-Deiry, W.S.** Involvement of the miR-6883 family and the circadian rhythm gene PER1 in the DNA damage response (DDR) and chemosensitivity. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

374- Lulla, A.R., Einarson, M.B., Zhou, Y., Lev, A., Dicker, D.T., and **El-Deiry, W.S.** miR-3132 induces TRAIL and cell death in mutant p53-expressing cancer cells. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

375- Ralff, M.D., Kline, C.L.B., and **El-Deiry, W.S.** ONC201 and synthbetic analogues inhibit breast cancer mTORC1 signaling and sensitize to TRAIL through integrated stress response activation. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

376- Zhao, S., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** Anti-cancer effect by combination treatment of CDK and HSP90 inhibitors through HIF1□ inhibition. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

377- Ralff, M.D., Wagner, J., and **El-Deiry, W.S.** ONC201 sensitizes breast cancer cells to TRAIL through death receptor 5 upregulation. 109th Annual AACR meeting, Chicago, IL, April 14-18, 2018.

378- Kurzrock, R., Parulkar, R., Yeatman, T.J., **El-Deiry, W.S.**, Pluard, T.J., Gamer, C., Reddy, S.K. Seventeen percent of NGS 50 panel variants are not expressed in RNAseq. 54th Annual ASCO meeting, Chicago, IL, June 1-5, 2018.

379- Stein, M.N., Malhotra, J., Malhotra, U., Silk, A.W., Chan, N., Rodriguez-Rodriguez, L., Aisner, J., Aiken, R., Newman, J., Sadimin, E., Saunders, T., Frankel, M., Karedulla, A., **El-Deiry, W.S.**, Tarapore, R., Allen, J.E., Bertino, J.R., Libutti, S.K., Mehnert, J.M., and Zloza, A. Safety and pharmacodynamics of the DRD2 antagonist ONC201 in advanced solid tumor patients with weekly oral administration. 54th Annual ASCO meeting, Chicago, IL, June 1-5, 2018.

380- Ghatalia, P., Winer, A., Smith, C., Gou, J., Kiedrowski, L.A., Saltzberg, P.D., Bubes, N., Anari, F., Kasireddy, V., Varshavsky, A., Ross, E.A., and **El-Deiry, W.S.** Liquid biopsies (LB) across treatment of 29 metastatic colorectal cancer (CRC) patients (pts) reveal driver mutations and tumor evolution with anti-EGFR therapy: Experience in a GI Oncology clinic at Fox Chase Cancer Center. 54th Annual ASCO meeting, Chicago, IL, June 1-5, 2018.

381- Prabhu, V.V., Madhukar, N.S., Gilvary, C., Kline, C.L.B., Oster, S., Tarapore, R., **El-Deiry, W.S.,** Doherty, F., VanEngelenburg, A., Durrant, J., Benes, C., Rusert, J., Wechsler-Reya, R., Oster, W., Elemento, O., and Allen, J.E. DRD5 is a modulator of glioma susceptibility to DRD2 antagonism by ONC201. Society for Neuro-Oncology Annual Meeting, New Orleans, November 15-18, 2018.

382- Ray, J.R., Ralff, M.D., Dicker, D.T., and **El-Deiry, W.S.** Imipridone ONC201 demonstrates pro-apoptotic and anti-proliferative effects against endometrioid type endometrial cancer cells as well as combinatorial efficacy with Everolimus, TRAIL or a DR5 agonist antibody. Society of Gynecologic Oncology Annual Meeting, Hawaii Convention Center, Honolulu, HI, March 16-19, 2019.

383- Ray, J.R., Ralff, M.D., Dicker, D.T., and **El-Deiry, W.S.** Anti-tumorigenic effect of ONC201 is enhanced by combination treatment with TRAIL or a DR5 agonist in endometrial cancer in vitro. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

384- Ralff, M.D., Ray, J., Zhou, L., Lev, A., Dicker, D.T., and **El-Deiry, W.S.** TRAIL or a DR5 agonist convert the response of non-triple negative breast cancer cells to ONC201 from anti-proliferative to apoptotic. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

385- Hernandez Borrero, L.J., Lev, A., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** Newly identified p53-pathway restoring small molecule, CB002 analogue #4 induces apoptosis and appears non-toxic in vivo. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

386- Zhou, L., and **El-Deiry, W.S.** Preclinical studies of the combination of ONC201, radiotherapy and temozolomide against GBM, DIPG and rhabdoid tumor cell lines. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

387- Zhao, S., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** Synergistic inhibition of cancer cell viability and suppression of HIF1α by CDK4 inhibitors and HSP90 inhibitors across cancer types. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

388- Zhang, S., Zhou, L., Ralff, M.D., and **El-Deiry, W.S.** Small molecule CB001 induces extrinsic apoptosis via downregulation of c-FLIP expression in mutant p53-expressing cancer cells. 110th Annual AACR meeting, Atlanta, GA, March 29 to April 3, 2019.

389- Puccini, A., Xiu, J., Goldberg, R.M., Grothey, A., Shields, A.F., Salem, M.E., Seeber, A., Battaglin, F., Berger, M.D., **El-Deiry, W.S.**, Tokunaga, R., Naseem, M., Zhang, W., Arora, S.P., Khushman, M.M., Hall, M.J., Philip, P.A., Marshall, J., Korn, W.M., and Lenz, H-J. Molecular differences between lymph nodes (LNs) and distant metastases (mets) in colorectal cancer (CRC). 55th Annual ASCO meeting, Chicago, IL, May 31 – June 4, 2019.

390- Winer, A., Vijayvergia, N., Cohen, S.J., Denlinger, C.S., Astsaturov, I.A., Dotan, E., Gallant, J-N., Wang, E.W., Kunkel, M., Lim, B., Harvey, H.A., Sivik, J.M., Zhou, L., Korzekwa, K., Ruth, K., Ross, E.A., and **El-Deiry, W.S.** A phase Ib trial to evaluate the safety and efficacy of quinacrine plus capecitabine in patients with refractory metastatic colorectal cancer. 55th Annual ASCO meeting, Chicago, IL, May 31 – June 4, 2019.

391- Seeber, A., Kocher, F., XXiu, J., Spizzo, G., Puccini, A., Swensen, J., Ellis, M., Goldberg, R.M., Grothey, A., Shields, A.F., Salem, M.E., Battaglin, F., **El-Deiry, W.S.**, Tokunaga, R., Naseem, M., Philip, P.A., Marshall, J., Korn, W.M., Lenz, H-J., and Gatalica, Z. Molecular landscape of colorectal cancers harboring R-spondin fusions. 55th Annual ASCO meeting, Chicago, IL, May 31 – June 4, 2019.

392- Spizzo, G., Puccini, A., Xiu, J., Goldberg, R.M., Grothey, A., Shields, A.F., Arora, S.P., Khushman, M.M., Salem, M.E., Battaglin, F., **El-Deiry, W.S.**, Tokunaga, R., Philip, P.A., Hall, M.J., Marshall, J., Kocher, F., Korn, W.M., Lenz, H-J., and Seeber, A. Frequency of BRCA mutation in biliary tract cancer and its correlation with tumor mutational burden (TMB) and microsatellite instability (MSI). 55th Annual ASCO meeting, Chicago, IL, May 31 – June 4, 2019.

393- Seeber, A., Puccini, A., Xiu, J., Goldberg, R.M., Grothey, A., Shields, A.F., Salem, M.E., Battaglin, F., **El-Deiry, W.S.**, Tokunaga, R., Philip, P.A., Marshall, J., Kocher, F., Hall, M.J., Korn, W.M., Lenz, H-J., and Spizzo, G. BRCA-mutant pancreatic cancer is associated with high tumor mutational burden (TMB) and higher PD-L1 expression. 55th Annual ASCO meeting, Chicago, IL, May 31 – June 4, 2019.

394- Zhang, Y., Zhou, L., Zhang, S., Borsuk, R., Safran, H., Seyhan, A., and **El-Deiry, W.S.** Preclinical synergistic anti-tumor effect against multiple cancer types by EZH2 inhibitor EPZ-6438 plus imipridone ONC201 to mimic H3K27M mutation observed in DIPG tumors that respond to ONC201 in the clinic. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, Boston, MA, October 26-30, 2019.

395- Tavora, F., Zhou, L., Amin, A., Arunasalam, N., De Souza, A., Mega, A., Golijanin, D., Safran, H., **El-Deiry, W.**, and Carneiro, B.A. ONC201 shows synergy with the androgen receptor (AR)-inhibitor darolutamide in prostate cancer cell lines. 111th Annual AACR meeting, 2020.

396- Sahin, I., Zhang, S., Zhou, L., Dizon, D., Safran, H., and **El-Deiry, W.S.** Targeting MDM2-amplified tumors with AMG-232 to overcome drug resistance, inflammatory pro-tumorigenic cytokine production and hyperprogression with immune checkpoint therapy. 111th Annual AACR meeting, 2020.

397- Hernandez Borrero, L., Dicker, D.T., Tian, X., Ahsan, X., Lev, A., Zhou, L., and **El-Deiry, W.S.** A subgroup of potent CB002 xanthine derivatives define a novel class of anti-cancer drugs that restore the p53 pathway in tumors with mutated p53 and target an S-phase checkpoint. 111th Annual AACR meeting, 2020.

398- Ferrarini, I., Zhou, L., and **El-Deiry, W.S.** ONC212 affects ClpXP complex, impairs mitochondrial bioenergetics and synergizes with glycolysis inhibition in pancreatic cancer. 111th Annual AACR meeting, 2020.

399- Rao, C.V., Madka, V., Zhang, Y., Pathuri, G., Panneerselvam, J., Stratton, N., Finnberg, N.K., Safran, H.P., Fox, J., Sei, S., Glaze, E.R., Shoemaker, R., and **El-Deiry, W.S.** TRAIL inducing

small molecule ONC201 prevents intestinal tumors in FAP mouse model. 111th Annual AACR meeting, 2020.

400- Borsuk, R., Zhou, L., Zhang, Y., Prabhu, V.V., Allen, J.E., Oster, W., Tapinos, N., Lulla, R., and **El-Deiry, W.S.** Novel imipridone combination therapies targeting oncohistone H3K27M mutant diffuse midline glioma (DMG). 111th Annual AACR meeting, 2020.

401- Zhang, Y., Zhou, L., Safran, H., Seyhan, A.A., and **El-Deiry, W.S.** Potent synergistic tumor cell suppression from combination of ONC201 and epigenetic modulators EZH2 or HDAC inhibitors provides a novel treatment strategy for solid tumors. 111th Annual AACR meeting, 2020.

402- Zhao, S., Zhou, L., Dicker, D.T., and **El-Deiry, W.S.** Anti-tumor effect and HIF1α inhibition by combining CDK4 inhibitor with HSP90 inhibitor in various cancer types including Rb-deficient tumor cells. 111th Annual AACR meeting, 2020.

403- Tian, X., Ahsan, N., and **El-Deiry, W.S.** PG3-Oc partially restores the p53 pathway transcriptome and proteome in tumors with mutant p53 through ATF4 transcriptional modulation by ERK2/CDK9. 111th Annual AACR meeting, 2020.

404- Chang, W., Zhou, L., Seyhan, A., Zhang, Y., and **El-Deiry, W.** Novel therapeutic targeting of epigenetic aberrations in pediatric sarcomas through combination of ONC201 and HDAC inhibitors. 111th Annual AACR meeting, 2020.

405- Jhaveri, A.V., Zhou, L., Ferrarini, I., Lee, Y., and **El-Deiry, W.S.** Addition of TRAIL receptor agonists after treatment with ONC201 or ONC212 converts pancreatic cancer cells from anti-proliferative to apoptotic *in vitro* and delays PDAC xenograft growth *in vivo*. 111th Annual AACR meeting, 2020.

406- Parker, C.S., Zhou, L., and **El-Deiry, W.S.** ONC201 induces apoptosis in gastric adenocarcinoma and exhibits synergy with rhTRAIL. 111th Annual AACR meeting, 2020.

407- Lee, Y.S., Zhou, L., Azzoli, C., and **El-Deiry, W.S.** Preclinical syudies with ONC201 in combination with clinically approved chemotherapy as a novel treatment strategy against Small Cell Lung Cancer (SCLC). 111th Annual AACR meeting, 2020.

408- Tavora, F., Lotan, T., Alvesx, M., Zhou, L., Amin, A., Arunasalam, N., De Souza, A., Mega, A., Golijanin, D., Giles, F., **El-Deiry, W.**, and Carneiro, B. Glycogen synthase kinase 3-β expression in prostate cancer (PCa) correlates with aggressive pathological features and its blockade with 9-ING-41 inhibits viability of PCa cell lines. 111th Annual AACR meeting, 2020.

409- Borden, B.A., Xiu, J., Baca, Y., Ramos, P., Giles, F.J., Mazar, A., Tavora, F., Safran, H., **El-Deiry, W.S.**, and Carneiro, B.A. Glycogen synthase kinase-3 beta (GSK-3β) genomic alterations and increased program death-ligand 1 (PD-L1) expression in advanced malignancies. 111th Annual AACR meeting, 2020.

410- Zhou, L., Safran, H.P., Glantz, M.J., and **El-Deiry, W.S.** ONC201 decreases protein chaperone ClpX to unleash mitochondrial protease ClpP activity, integrated stress response and tumor cell death. 111th Annual AACR meeting, 2020.

411- Zhang, Y., Zhou, L., Safran, H., Seyhan, A.A., and **El-Deiry, W.S.** Synergistic tumor suppression from combination of ONC201 and epigenetic modulators EZH2 or HDAC inhibitor provides a novel treatment strategy for GBM and DMG. Society of Neuro-Oncology Meeting, 2020.

412- Chang, W., Zhou, L., Seyhan, A., Prabhu, V.V., and **El-Deiry, W.S.** Combinatorial therapy of imipridones and histone deacetylase inhibitor in Ewing sarcoma cell lines demonstrates synergistic cell death. 112th Annual AACR meeting, April 9-14, 2021.

413- Carlsen, L., Zhou, L., Hernandez Borrero, L.J., Navaraj, A., Zhang, S., Schorl, C., and **El-Deiry, W.S.** The transcriptional response in colorectal cancer cells varies across four clinically used chemotherapeutic drugs in terms of gene identity, magnitude of change, and p53 dependence. 112th Annual AACR meeting, April 9-14, 2021.

414- Honeyman, J.N., Chang, W., Prabhu, V.V., Allen, J.E., Zhou, L., and **El-Deiry, W.S.** Imipridones exhibit synergy with sorafenib, HDAC inhibition, PARP inhibition, and proteasome inhibition in liver cancer cell lines. 112th Annual AACR meeting, April 9-14, 2021.

415- Zhang, Y., Zhou, L., Prabhu, V.V., Allen, J.E., Seyhan, A., and **El-Deiry, W.S.** The Integrated Stress Response (ISR) is involved in the synergy due to combination of ONC201 and epigenetic modulators in brain tumor cell lines. 112th Annual AACR meeting, April 9-14, 2021.

416- Zhao, S., and **El-Deiry, W.S.** Identification of Smurf2 as a HIF-1α degrading E3 ubiquitin ligase. 112th Annual AACR meeting, April 9-14, 2021.

417- Borsuk, R., Zhou, L., Zhang, Y., Prabhu, V.V., Allen, J.E., Tapinos, N., Lulla, R., and **El-Deiry, W.** Response to novel imipridone combination therapies targeting H3K27M mutant diffuse midline glioma (DMG). 112th Annual AACR meeting, April 9-14, 2021.

418- Louie, A.D., Ferrarini, I., Zhou, L., and **El-Deiry, W.S.** ONC212-induced impairment of oxidative phosphorylation is synergistic with glycloysis inhibition in treatment of pancreatic cancer *in vitro* and *in vivo*. 112th Annual AACR meeting, April 9-14, 2021.

419- Parker, C.S., Zhou, L., Prabhu, V.V., Allen, J.E., and **El-Deiry, W.S.** ONC201 as a novel anti-cancer therapeutic via regulation of inhibitors of apoptosis and up-regulation of DR5 in gastric adenocarcinoma. 112th Annual AACR meeting, April 9-14, 2021.

420- Tian, X., Ahsan, N., and **El-Deiry, W.S.** p53-independent restoration of p53 pathway in tumors with mutated p53 through ATF4 transcriptional modulation. 112th Annual AACR meeting, April 9-14, 2021.

421- Huntington, K.E., Zhang, S., Carneiro, B.A., and **El-Deiry, W.S.** GSK3β inhibition by small moleculae 9-ING-41 decreases VEGF and other cytokines, and boosts NK and T cell-mediated killing of colorectal tumor cells. 112th Annual AACR meeting, April 9-14, 2021.

422- Huntington, K.E., Maxwell, A.W., Louie, A., Zhang, S., Zhou, L., and **El-Deiry, W.S.** Decreasing colorectal cancer extracellular pH dampens immune cell killing and is partially ameliorated by treatment with NHE1 inhibitor Cariporide. 112th Annual AACR meeting, April 9-14, 2021.

423- Soliman, L., De Souza, A., Srinivasan, P., Danish, M., Golijanin, D., Amin, A., Mega, A., **El-Deiry, W.S.**, Bertone, P., and Carneiro, B.A. Differential transcriptomic profiling of primary tumors and metastatic sites in advanced prostate cancer. 112th Annual AACR meeting, April 9-14, 2021.

424- De Souza, A., Srinivasan, P., Soliman, L., Golijanin, D., Amin, A., Safran, H., Megam A., **El-Deiry, W.S.**, and Carneiro, B.A. Clinical and genomic features of advanced urothelial carcinoma with 9p21 deletion. 112th Annual AACR meeting, April 9-14, 2021.

425- Raufi, A.G., Parker, C., Zhou, L., Prabhu, V.V., Allen, J.E., and **El-Deiry, W.S.** Combination therapy with MEK inhibitors and a novel anti-neoplastic drug, Imipridone ONC212, demonstrates synergy in pancreatic ductal adenocarcinoma cell lines. 112th Annual AACR meeting, April 9-14, 2021.

426- Zhang, S., and **El-Deiry, W.S.** Small-moleculae NSC58874 releases and activates p73 via induction of mutant p53 degradation in cancer cells. 112th Annual AACR meeting, April 9-14, 2021.

427- Zhang, S., Huntington, K.E., Kun, B., Zhou, L., Kreiling, J., Sedivy, J.M., and **El-Deiry, W.S.** ONC201 suppresses cancer cell growth in a reconstructed tumor microenvironment that includes chemotherapy-induced senescent fibroblasts. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

428- Zhou, L., Wu, L.J., Safran, H.P., and **El-Deiry, W.S.** Synergistic antitumor effect of ONC201, radiotherapy and temozolomide in glioblastoma mouse orthotopic models. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

429- Tian, X., and **El-Deiry, W.S.** Comparative activation of cellular ISR and cell death induction by p53 pathway restoring small molecules. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

430- Louie, A.D., Huntington, K.E., Lee, Y., Mompoint, J., Wu, J., Lee, S., and **El-Deiry, W.S.** Combining PD-1 inhibition with the TRAIL receptor agonist TLY012 promotes pancreatic ductal adenocarcinoma tumor regression in an immunocompetent mouse model. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

431- Sha, L., Yin, J., Kim, S., An, W., Zhang, J., Farrell, A., Xiu, J., Spetzler, D., Wei, S., Hoon, D.S., Liu, S.V., Lou, E., Nagasaka, M., **El-Deiry, W.S.**, Carneiro, B.A., Korn, W.M., Lenz, H-J., and Dou, Y. Overexpression of KMT2A is associated with worse prognosis and specific immune signatures in patients with TP53-mutated hepatocellular carcinomas. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

432- Zhang, S., and **El-Deiry, W.S.** Therapeutic targeting of p73-activated c-FLIP switches c ell fate from growth arrest and survival to apoptosis in p53-deficient cancer cells. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

433- Arnoff, T.E., and **El-Deiry, W.S.** MDM2/MDM4 amplification and CDKN2A deletion in melanoma brain metastases and GBM may have implications for targeted therapeutics and immunotrherapy. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

434- Zhao, S., and **El-Deiry, W.S.** HIF-1α regulation by Smurf2-mediated protein degradation in a VHL-independent manner. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

435- De La Cruz, A., Raufi, A.G., Carlsen, L., Huntington, K., Zhou, L., Prabhu, V., Allen, J., and **El-Deiry, W.S.** Imipridone ONC212 and trametinib combination therapy demonstrates anti-neoplastic effects through immune-mediated mechanisms in pancreatic ductal adenocarcinoma cell lines. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

436- Carlsen, L., and **El-Deiry, W.S.** Classification of cancer cells based on unexpected variation in levels and dynamics of pRb, pERK, and pAKT in response to cell synchcronization from nutrient deprivation. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

437- Brown, T., Punyamurtula, U., Strandberg, J., and **El-Deiry, W.S.** Cell density-related variability in chemotheraperutic resistance patterns in human cancer cells. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

438- Carlsen, L., Elliott, A., Capelletti, M., Hall, M., Philip, P.A., Lenz, H-J., Safran, H., Almhanna, K., Breakstone, R., Raufi, A.G., Lou, E., Marshall, J.L., Korn, W.M., and **El-Deiry, W.S.** Prognostic and predictive drug-induced gene signatures for colorectal cancer patients

personalized based on p53 status and treatment with FOLFOX, 5-FU, oxaliplatin, or irinotecan. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

439- Lin, C., Chang, W-I., Honeyman, J.N., Zhou, L., Prabhu, V.V., Allen, J., and **El-Deiry, W.S.** Imipridones show pre-clinical efficacy in MYCN-amplified and MYNC non-amplified neuroblastoma cell lines. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

440- Zhang, Y., and **El-Deiry, W.S.** Adaptation to dopamine impairs the anti-cancer effect of ONC201 and ONC206. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

441- Ochsner, A.M., Huntington, K.E., Zhou, L., Carneiro, B., and **El-Deiry, W.S.** Combined ATR+PARP inhibition exhibits potent synergy in colorectal and pancreatic cancer cytotoxicity. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

442- Raufi, A.G., De La Cruz, A., George, A., Hacking, S., Madka, V., Prabhu, V., Safran, H., Zhou, L., Brenner, D., Rao, C.V., and **El-Deiry, W.S.** Increased tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) expression in normal colonic mucosa with imipridone ONC201/TIC10 treatment: A potential biomarker for chemoprevention studies. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

443- Punyamurtula, U., Zhang, S., Brown, T., De La Cruz, A., Raufi, A., Strandberg, J., Carlsen, L., Zhou, L., and **El-Deiry, W.S.** IC50-Seeding Density Slope (ISDS)-measurement as a standardized methodology for assessing anti-cancer therapeutic activity *in vitro*. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

444- George, A., Sahin, I., Zhang, S., and **El-Deiry, W.S.** Role of the cancer cell proteome and tumor microenvironment in the hyperprogression (HP) phenotype response to immune checkpoint blockade. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

445- Di Cristofano, F.R., Fong, M., Zhou, L., and **El-Deiry, W.S.** Synergistic activity of ABT-263 and ONC201 against solid tumor cell ines is associated with suppression of BAG3, Mcl-1, pAkt, and upregulation of Noxa along with Bax cleavage during apoptosis. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

446- Wu, J.L., Zhou, L., Zhang, L., Huntington, K.E., Carneiro, B., and **El-Deiry, W.S.** Antitumor efficacy of combination treatment with ONC201 and enzalutamide or darolutamide in metastatic castration-resistant prostate cancer. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

447- Lee, Y.S., Zhou, L., Azzoli, C., and **El-Deiry, W.S.** ONC201 in combination with carboplatin and etoposide as a novel triple drug treatment for small cell lung cancer (SCLC). 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

448- Liguori, N.R., Uruchurtu, A., Lee, Y., Zhang, L., Abbas, A., Prabhu, V., Zhou, L., Azzoli, C.J., and **El-Deiry, W.S.** Synergistic activity of Lurbinectedin plus ONC201 in SCLC is associated with ATF4, CHOP, and pChk1 induction. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

449- Huntington, K.E., Louie, A., Zhou, L., Carneiro, B.A., and **El-Deiry, W.S.** Small-molecule inhibition of glycogen synthase kinase-3 (GSK-3) increases the efficacy of anti-PD-L1 therapy in a murine model of microsatellite stable colorectal cancer (CRC); Therapeutic response correlaqtes with T cell ratios and serum cytokine profiles in mice. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

450- Lou. E., Xiu, J., Baca, Y., Walker, P., Manji, G.A., Gholami, S., Saeed, A., Philip, P.A., Prakash, A., Astsaturov, I.A., Botta, G., Abushahin, L.I., Sohal, D., Lenz, H-J., Shields, A.F.,

Nabhan, C., **El-Deiry, W.S.**, Seeber, A., and Korn, W.M. The tumor microenvironment and immune infiltration landscape of KRAS mutant pancreatic ductal adenocarcinoma (PDAC) compared to colorectal adenocarcinoma (CRC). 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

451- Khushman, M.M., Gandhi, N., Xiu, J., El-Rayes, B., Seeber, A., Williams, G.R., Outlaw, D.A., Lou, E., Shields, A.F., Philip, P.A., **El-Deiry, W.S.**, Marshall, J., Jayachandran, P., Lenz, H-J., Oberley, M.J., Korn, W.M., and Manne, U. The prognostic significance of *TP53* mutations in patients with right-sided and left-sided colorectal cancer. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

452- Darabi, S., Braxton, D.R., Xiu, J., Carneiro, B.A., Swensen, J., Antonarakis, E.S., Liu, S.V., McKay, R.R., Spetzler, D., **El-Deiry, W.S.**, and Demeure, M.J. Reversion mutations in BRCA1 or BRCA2 genes: Resistance mechanism(s) in patients treated with platinum-based agents or poly (ADP-ribose) polymerase (PARP) inhibitors. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

453- Gallegos, J.A.O., Rodriguez, E., Trabolsi, A., Kareff, S., Yin, J., Walker, P., **El-Deiry, W.S.**, Carneiro, B.A., Wei, S., Nabhan, C., Lopes, G., and Merchan, J.R. Molecular characteristics and clinical outcomes of HRAS-mutated urothelial bladder carcinoma. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

454- Tan, H., Baca, Y., Xiu, J., Figueredo, J., Florou, V., Lou, E., Marshall, J., **El-Deiry, W.S.**, Korn, W.M., Walker, P., Sohal, D., Astsaturov, I.A., Pishvaian, M.J., Ezenwajiaku, N., Datta, J., Merchant, N.B., Seo, P.H., Trent, J.C., Lopes, G., and Hosein, P.J. Impact of somatic SWI/SNF alterations on the genomic landscape of pancreatic ductal adenocarcinoma and response to PARP and immune checkpoint inhibitor therapy. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

455- Haribhakti, N., Elliott, A., Walker, P., Marks, E.I., **El-Deiry, W.S.**, Kurzrock, R., Girda, E., Thaker, P.H., Korn, W.M., Liu, S.V., and Dizon, D.S. Genomic analysis of clear cell carcinoma. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

456- Choucair, K., Naqash, A.R., Salama, A.K.S., Kim, C., Elliott, A., Oberley, M.J., Walker, P., Saeed, A., **El-Deiry, W.S.**, Beltran, H., Nabhan, C., Liu, S.V., Nebhan, C., and Saeed, A. Age-associated differences in transcriptional expression and tumor immune microenvironment composition among older patients with cancer. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

457- **El-Deiry, W.S.**, Arnoff, T., Carneiro, B.A., DeSouza, A., Amin, A., Safran, H., Heath, E.I., Joshi, M., Golijanin, D., Holder, S.L., Mega, A.E., Khushman, M.M., Darabi, S., Antonarakis, E.S., Saeed, A., Lou, E., Farrell, A., Yin, J., Plimack, E.R., and McKay, R.R. Genomic and immunologic profiles of concurrent RB1 and CDKN1Ap21(WAF1) truncating mutations (RW+) in bladder cancer. 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

458- **El-Deiry, W.S.**, Arnoff, T., Sahin, I., Borghaei, H., Subbiah, V., Khan, H., Carneiro, B.A., Safran, H., Graff, S.L., Dizon, D.S., Heath, E.I., Wong, E.T., Abbas, A., Azzoli, C.G., Demeure, M.J., Abraham, J., Kurzrock, R., Xiu, J., Lou, E., and Liu, S.V. A pancancer analysis of impact of *MDM2/MDM4* on immune checkpoint blockade (ICB). 58th Annual ASCO meeting, Chicago, IL, June 3-7, 2022.

459- Tajiknia, V., Huntington, K.E., Zhou, L., and **El-Deiry, W.S.** Combination of 5-Fluorouracil (5-FU) plus KRAS G12D inhibitor MRTX1133 against colorectal and pancreatic cancer cells results in immune-stimulatory cytokine patterns and observed drug synergies independent of G12D mutation. 12th AACR-JCA Joint Conference on Breakthroughs in Cancer Research: Translating Knowledge into Practice, December 10-14, 2022, Maui, Hawaii.

460- Brown, T.W., Punyamurtula, U., and **El-Deiry, W.S.** Human ovarian cancer cell seeding density as a mechanism of cisplatin resistance associated with expression of anti-apoptotic and autophagy proteins. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

461- Carlsen, L., Huntington, K.E., and **El-Deiry, W.S.** Classical chemotherapy modulates cytokine secretion in the MSS CRC immune microenvironment and enhances T cell killing. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

462- De La Cruz, A., George, A., De La Cruz, P., Pinho-Schwermann, M., Meza, K.S., Arnoff, T., Sahin, I., Graff, S.L., Carneiro, B.A., and **El-Deiry, W.S.** Preclinical Anti-tumor Effects of MDM4/MDMX Inhibitor XI-006 in Breast Cancer and Prostate Cancer Cell Lines Mediated through Reduced Tumor Cell Migration. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

463- De La Cruz, A., Srinivasan, P.R., George, A., and **El-Deiry, W.S.** Imipridones induce Lipid Peroxidation and Oxidative Stress in Gastrointestinal Malignancies. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

464- De Souza, A., Mega, A., Safran, H., Amin, A., Cheng, L., Golijanin, D., Holder, S., Lagos, G., **El-Deiry, W.S.**, and Carneiro, B.A. Tissue-based next generation sequence may be more accurate than ctDNA to detected driver and actionable mutations in MTAP wild-type tumors. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

465- Di Cristofano, F.R., Zhang, S., Huntington, K.E., and **El-Deiry, W.S.** Normal fibroblasts and cancer-associated fibroblasts have varying effects on gastric cancer cell tumorigenic potential and sensitivity to ABT-263. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

466- Ding, E., and **El-Deiry, W.S.** Neuroendocrine differentiation (ND) in sensitivity of neuroendocrine tumor (NET) cells to ONC201/TIC10 cancer therapeutic. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

467- **El-Deiry, W.S.**, George, A., Di Cristofano, F., Srinivasan, P., Carlsen, L., Huntington, K.E., De La Cruz, A., Zhang, L., Hahn, M., Zhao, S., Seyhan, A., Denardo, B., Maxwell, A., Kim, D.H., Raufi, A., Khan, H., Graff, S.L., Dizon, D.S., Azzoli, C., Abbas, A.E., Wood, R., Lulla, R., Safran, H., Carneiro, B., Navaraj, A., Tian, X., Zhang, S., and Zhou, L. Inclusive basic and advanced translational laboratory research competencies for research in cancer biology and therapeutics. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

468- George, A., De La Cruz, A., Zhang, S., Sahin, I., Srinivasan, P., Schwermann, M., Turcotte, M., Arnoff, T., and **El-Deiry, W.S.** MDMX overexpression in cancer cells confers significant resistance to MDMX inhibitor XI-006 and may modulate chemosensitivity through suppressing p53 activation of pro-apoptotic factors. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

469- George, A., Sahin, I., Zhang, S., Schwermann, M., Di Cristofano, F., DeGeorge, C., and **El-Deiry, W.S.** MDM2 inhibition in combination with imipridone ONC201 treatment as a synergistic combination in solid tumors. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

470- Ghandali, M., Huntington, K.E., Srinivasan, P., Dizon, D.S., Graff, S.L., Carneiro, B.A., and **El-Deiry, W.S.** PARP inhibitor rucaparib in combination with imipridones ONC201 or ONC212 demonstrates preclinical synergy against BRCA1/2-deficient breast, ovarian, and prostate cancer cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

471- Ghandali, M., Selvi, K.M., Huntington, K.E., George, A., Ochsner, A., Carneiro, B.A., Dizon, D.S., and **El-Deiry, W.S.** TIC10/ONC201 in combination with ceralasertib exhibits potent synergy

in high grade serous ovarian cancer cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

472- Gonzalez, Z., Carlsen, L., and **El-Deiry, W.S.** Temozolomide combined with ipilimumab + nivolumab enhances T cell killing of MGMT-expressing, MSS colorectal cancer cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

473- Hadfield, M.J., DeSouza, A., Golijanin, D., Wood, R., Olszewski, A.J., Holder, S.L., **El-Deiry, W.S.**, Aggarwal, R.R., Mega, A.E., Carneiro, B.A. BrUOG360: A phase Ib/II study of copanlisib combined with rucaparib in patients with metastatic castration-resistant prostate cancer (mCRPC). 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

474- Huntington, K.E., Schorl, C., Lu, S., Carneiro, B.A., **El-Deiry, W.S.** Multiplex digital spatial profiling (DSP) of proteins in the tumor microenvironment in response to GSK-3 inhibition by 9-ING-41 (elraglusib) correlates with novel immunostimulatory effects observed *in vivo*. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

475- MacDonald, W.J., Lew, S., Huntington, K.E., Lulla, R.R., DeNardo, B.D., and **El-Deiry, W.S.** Immunostimulatory effects towards NK and T-cells by 9-ING-41, a small molecule GSK-3 inhibitor, in human liposarcoma and osteosarcoma cell lines. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

476- MacDonald, W., Verschleiser, B., Carlsen, L., Huntington, K.E., and **El-Deiry, W.S.** Bypassing immune evasion in colorectal cancer by integrin inhibition-mediated downregulation of PD-L1. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

477- Malpass, R., Huntington, K.E., Zhou, L., Zhang, L., Navaraj, A., **El-Deiry, W.S.**, Maxwell, A.W.P. Combination treatment with pH modulating drugs and immune checkpoint inhibitors increases TALL-104 cytotoxicity in preclinical co-culture experiments. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

478- Schwermann, M., Huntington, K.E., Carlsen, L., Zhou, L., Srinivasan, P., George, A., Wu, L.J., de Souza, A., Mega, A., Safran, H.P., Carneiro, B.A., and **El-Deiry, W.S.** Androgen signaling blockade enhances NK cell-mediated killing of prostate cancer cells (PC) and promotes NK cell tumor infiltration *in vivo*. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

479- Schwermann, M., Carlsen, L., Huntington, K.E., Zhou, L., George, A., Srinivasan, P., Tajiknia, V., De La Cruz, A., de Souza, A., Mega, A., Safran, H.P., Carneiro, B.A., and **El-Deiry, W.S.** IFN-γ and TRAIL involvement in androgen signaling-mediated NK cell killing of prostate cancer cells and further enhancement by NKG2A checkpoint inhibition with monalizumab. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

480- Srinivasan, P.R., Zhang, S., and **El-Deiry, W.S.** Preclinical killing effects of engineered TRAIL-expressing immune cells against colorectal and pancreatic cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

481- Strandberg, J., Louie, A., Hahn, M., Srinivasan, P., George, A., De La Cruz, A., Zhang, L., Hernandez Borrero, L., Huntington, K., Azzoli, C., Abbas, A.E., Zhou, L., Lee, S., and **El-Deiry, W.S.** Post Exposure Suppression of Radiation Pneumonitis by TRAIL Pathway Agonists TLY012 and ONC201. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

482- Tajiknia, V., Huntington, K.E., Zhou, L., and **El-Deiry, W.S.** Combination of 5-Fluorouracil (5-FU) or ONC212 plus KRAS G12D inhibitor MRTX1133 against colorectal and pancreatic cancer cells results in immune-stimulatory cytokine patterns and observed synergies independent of G12D mutation. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

483- Tajiknia, V., Zhou, L., and **El-Deiry, W.S.** Enhanced efficacy of HDAC inhibitor panobinostat and ONC206 combined with radiation therapy against human glioblastoma cell lines. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

484- Tian, X., and **El-Deiry, W.S.** Targeting mutant p53 and KRAS for novel pancreatic cancer therapy by combination treatment of Simvastatin and imipridones. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

485- Tian, X., and **El-Deiry, W.S.** TIC10/ONC201 activates ClpP to degrade ALAS1 while PG3 does not degrade ALAS1 in pathway to HRI, ATF4 and CHOP activation leading to tumor cell death. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

486- Totiger, T.M., Baca, Y., Chiraphapphaiboon, W., Chaudhry, S., Montoya, S., Chojnacka, M., Gaidosh, G., Afaghani, J., Affer, M., Zabroski, J., Jahn, J., Nawaratne, V., Notti, R., Verdun, R., Nguyen, H.D., Nabhan, C., Herzog, T.J., Walker, P., Elliott, A., Lou, E., **El-Deiry, W.S.**, Mitchell, E., Rodriguez, J., DePinho, R.A., and Taylor, J. Pan-cancer analysis of *XPO1* R749Q mutations across 217,570 patients is associated with high TMB and therapy resistance. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

487- Tummala, T., Sanchez Sevilla Uruchurtu, A., De La Cruz, A., Liguori, N.R., Abbas, A.E., Zhang, L., Azzoli, C., Zhou, L., and **El-Deiry, W.S.** Synergistic Combinations of Lurbinectedin with Irinotecan and ONC212 in Pancreatic Cancer. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

488- Sanchez Sevilla Uruchurtu, A., Liguori, N.R., Zhang, L., Huntington, K., Abbas, A.E., Lee, Y.S., Zhou, L., Azzoli, C.G., and **El-Deiry, W.S.** Preclinical experiments with ONC201 and lurbinectedin provide novel insights into the molecular landscape of small cell lung cancer. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

489- Verschleiser, B., MacDonald, W., Carlsen, L., Huntington, K.E., Zhou, L., and **El-Deiry, W.S.** Integrin inhibitor GLPG-0187 promotes T-cell killing of mismatch repair-deficient colorectal cancer cells by suppression of SMAD/TGF-β Signaling. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

490- Wu, L.J., Zhou, L., Zhang, L., Huntinton, K.E., Malpass, R., Seyhan, A.A., Carneiro, B., and **El-Deiry, W.S.** Synergistic combination therapy with ONC201/TIC10, Enzalutamide and Darolutamide in castration-resistant prostate cancer. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

491- Xia, Y.L., Schwermann, M.P., George, A., Ochsner, A., Carneiro, B.A., **El-Deiry, W.S.** The anti-tumor efficacy of combining oral ATR kinase inhibitor ceralasertib with TIC10/ONC201, an oral Akt/ERK inhibitor, TRAIL pathway and integrated stress response inducer, in prostate cancer treatment. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

492- Xia, Y.L., Zhou, L., Zhao, S., **El-Deiry, W.S.** Combination of palbociclib, a potent CDK4/6 inhibitor, with anti-PD1 drug pembrolizumab treatment to promote T-cell mediated glioblastoma tumor cell death under hypoxia. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

493- Zhang, J., Zhou, L., Zhao, S., and **El-Deiry, W.S.** TAS102 synergizes with regorafenib against colorectal and gastric cancer cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

494- Zhang, L., Carlsen, L., Zhou, L., Hernandez Borrero, L., and **El-Deiry, W.S.** Establishment and characterization of Vogelgram-mimic colorectal cancer organoids as a laboratory tool. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

495- Zhang, S., Huntington, K.E., Zhou, L., and **El-Deiry, W.S.** p21 (WAF-1/CIP-1) drives a secretory phenotype in senescent fibroblasts and promotes bystander cancer cell growth in the tumor microenvironment. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

496- Zhang, S., and **El-Deiry, W.S.** Tumor suppressor p73 primes extrinsic apoptosis via transcriptional activation of DR5 and c-FLIP. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

497- Zhang, S., and **El-Deiry, W.S.** Functional analysis of p53 codon 72 polymorphism with cysteine substitution in cancer cells. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

498- Zhang, Y., Huntington, K.E., and **El-Deiry, W.S.** Imipridones and EZH2 inhibitors induce similar changes in cytokines and regulated genes in GBM and DMG while vorinostat potentiates anti-tumor efficacy despite variability in cytokine profiles. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

499- Zhang, Y., and **El-Deiry, W.S.** Imipridones ONC201 and ONC206 reduce expression of neogenin and EZH1/2 which correlate with synergy following their combination with EZH1/2 or HDAC inhibitors in treatment of DMG and other tumors. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

500- Zhao, S., and **El-Deiry, W.S.** Inhibition of Smurf2 E3 ubiquitin ligase by heclin and its analogues enhances HIF-1α expression and transcriptional activity in normoxia or hypoxia. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

501- Zhou, L., Zhang, L., Carlsen, L., Huntington, K.E., Tajiknia, V., George, A., De La Cruz, A., Navaraj, A., Srinivasan, P., Schwermann, M., Carneiro, B., and **El-Deiry, W.S.** Co-culture of circulating tumor cell (CTC)-derived 3D organoids and autologous cytotoxic $CD8^+$ T cells: a new functional precision oncology platform. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

502- Zhou, L., Wu, L., Zhang, J., George, A., Hahn, M., Zhang, L., Seyhan, A., and **El-Deiry, W.S.** Preclinical combination of ONC201 with radiotherapy and Temozolomide in a GBM mouse orthotopic model results in reduced tumor burden and prolonged survival. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

503- Zhou, L., Zhang, S., Huntington, K.E., Carneiro, B.A., and **El-Deiry, W.S.** Heterogeneity of cytokine secretion in single senescent fibroblasts is impacted by ONC201 and ABT-263. 114th Annual AACR meeting, April 14-19, 2023, Orlando, FL.

504- **El-Deiry, W.S.**, Graff, S.L., Azzoli, C.G., Dizon, D.S., Fenton, M.A., Sikov, W.M., Safran, H., Khan, H., Khurshid, H., Schumacher, A., Zhou, L., Zhao, S., Seyhan, A., Ryspayeva, D., Wood, R., Winer, A., Calleja, E.M., Ross, E.A. BrUOG 387: Phase Ib investigator-initiated trial of a Heat Shock Protein 90 inhibitor (HSP90i) combined with a CDK4/6i in advanced breast cancer progressing on CDK4/6i and in solid tumorswith retinoblastoma (Rb)-deficiency (IND163592; NCT05655598). 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

505- **El-Deiry, W.S.**, Huntington, K., Louie, A., Srinivasan, P., Schorl, C., Lu, S., Silverberg, D., Newhouse, D., Wu, Z., Zhou, L., Ryspayeva, D., Borden, B., Giles, F.J., Dooner, M., Carneiro, B.A. GSK-3 inhibitor elraglusib (9-ING-41) enhances tumor-infiltrating immune cell activation intumor biopsies and synergizes with anti-PD-L1 in a murine model of colorectal cancer. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

506- Gupta, B., Wu, S., Ignatius Ou, S-H., Darabi, S., Mileham, K.F., Gandhi, N., Weinberg, B.A., Nagasaka, M., Borghaei, H., Ma, P.C., Farrell, A.P., Sledge Jr., G.W., Vanderwalde, A.M., **El-**

Deiry, W.S., Liu, S.V. *NRG1* fusions in solid tumors. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

507- Ribizzi-Akhtar, I., Elliott, A., Golemis, E., Wise-Draper, T.M., Abdulla, F.R., Shimanovsky, A., **El-Deiry, W.S.**, Birnbaum, A.E. Analysis of the NOTCH pathway in HNSCC: a target with a wide prognostic andtherapeutic potential. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

508- Schwermann, M., Tajiknia, V., Zhou, L., George, A., Srinivasan, P., De Souza, A., Mega, A.E., Safran, H., Carneiro, B.A., **El-Deiry, W.S.** Androgen receptor inhibitors and anti-NKG2A checkpoint inhibitor enhance NK cell-mediated killing of prostate cancer cell lines in vitro. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

509- Seeber, A., Gruber, R., Kocher, F., Zimmer, K., Puccini, A., Krause, H., Neureiter, D., Klieser, E., Salcher, S., Martowicz, A., Lou, E., **El-Deiry, W.S.**, Fontana, E., Gulhati, P., Khushman, M.M., Fong, D., Lenz, H-J., Wolf, D., Oberley, M.J., Sokolova, V. Comprehensive Molecular Mapping of Pancreatic Ductal Adenocarcinoma Relates *XPO1*mRNA Expression Levels to Potential Clinical Targets. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

510- Rehman, M., Baca, Y., Xiu, J., Walker, P., Lou, E., **El-Deiry, W.S.**, Lenz, H-J., Shields, A.F., Marshall, J., Johnston, C., Oberley, M.J., Goel, S., Weinberg, B.A., Holowatyj, A.N. Molecular profiling and characterization of the tumor immune microenvironment (TME) inappendiceal carcinoma (AC). 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

511- Warnecke, B., Nagasaka, M., Al Hallak, M.N., Bannoura, S., Kim, C., Elliott, A., Halmos, B., Hoon, D.S., Darabi, S., Farrell, A.P., Sukari, A., Radovich, M., Lou, E., Sledge Jr., G.W., **El-Deiry, W.S.**, Azmi, A.S. Multi-omic characterization of RCC1 expression and its association with molecularalterations, immune phenotypes, and cancer outcomes. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

512- Zorko, N., Hwang, J., Lozada, J.R., Seifert, H., Elliott, A., Radovich, M., Sledge Jr., G.W., Felices, M., Heath, E.I., Hoon, D.S.B., **El-Deiry, W.S.**, Miller, J., and Antonarakis, E.S. Pan-Cancer Analysis of Natural Killer (NK) Cell Infiltration in Human Malignancies: Molecular Features and Clinical Implications. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

513- Weiskittel, T., Huntington, K., Carneiro, B.A., Calvalcante, L., Mahalingam, D., Giles, F.J., Munster, P.N., **El-Deiry, W.S.**, Li, H., and Mazar, A.P. Plasma cytokine profiles and survival outcomes in the 1801 phase 1/2 clinical trial of 9-ING-41 (elraglusib) in patients with advanced cancer. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

514- Hadfield, M.J., Gandhi, N., Farrell, A.P., Azzoli, C.G., Vanderwalde, A.M., Halmos, B., Liu, S.V., **El-Deiry, W.S.**, and Naqash, A.R. Stimulator of interferon gene (STING) expression as a biomarker for overall survival in PDL1-negative, TMB-Low non-small cell lung cancer (NSCLC) treated with immune checkpoint inhibitors (ICIs). 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

515- Tajiknia, V., **El-Deiry, W.S.**, Schwermann, M., Huntington, K., Zhou, L., and Srinivasan, P. Synergistic combination of 5-FU plus KRAS G12D inhibitor MRTX1133 against humancolorectal and pancreatic cancer cells results in nM inhibition of pERK & immune-stimulatory cytokinepatterns in in KRAS G12D & KRAS G12V tumor cells. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

516- Krause, H., Darabi, S., Elliott, A., Farrell, A.P., Wise-Draper, T.M., **El-Deiry, W.S.**, Vanderwalde, A.M., Oberley, M.J., Sledge Jr., G.W., Spetzler, D., and Demeure, M.J. The Genomic Landscape and Prognostic Significance of 11.q.13 Amplification in Breast, Head & Neck, and Lung Cancer. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

517- Trabolsi, A., Kareff, S.A., Rodriguez, E., Krause, H., Tan, H., Morgenstern-Kaplan, D., Antonarakis, E.S., Lou, E., Nagasaka, M., Algaze, S., Lenz, H-J., Liu, S.V., Halmos, B., Hoon, D.S., Seeber, A., Ma, P.C., **El-Deiry, W.S.**, Vanderwalde, A.M., Sledge Jr., G.W., and Lopes, G. The Genomic, Transcriptomic, and Immunological Landscape of TROP2 in Solid Tumors. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

518- Jones, S., Krause, H., Noy, J., Kareff, S.A., Trabolsi, A., Elliott, A., Farrell, A.P., Halmos, B., Ma, P.C., **El-Deiry, W.S.**, Vanderwalde, A.M., Radovich, M., Sledge Jr., G.W., and Lopes, G. The genomic, transcriptomic, and immunologic landscape in solid tumors expressing leukocyte immunoglobulin-like receptor B2 (*LILRB2*). 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

519- Khushman, M.M., Gandhi, N., Xiu, J., Manne, U., Lou, E., Shields, A.F., **El-Deiry, W.S.**, Braxton, D.R., Oberley, M.J., Marshall, J., Lenz, H-J., and Seeber, A. The molecular signature of gain-of-function (GOF) vs. non-GOF classification *TP53* mutations in colorectal cancer. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

520- Borderias, N.P., Abraham, J., Radovich, M., Oberley, M.J., Swensen, J., Heath, E.I., Dietrich, M.F., Liu, S.V., Nabhan, C., Hahn-Lowry, R., Lou, E., **El-Deiry, W.S.**, Shields, A.F., Marshall, J., Miglarese, M.R., Antani, S., Sledge Jr., G.W., Halbert, D.D., Spetzler, D., and Domenyuk, V. Validation of a Whole Exome/Whole Transcriptome Liquid Biopsy Assay with Correctionfor Clonal Hematopoiesis. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

521- Carlsen, L., Elliott, A., Capelletti, M., Lou, E., Marshall, J., Lenz, H-J., Philip, P.A., Hall, M.J., Sledge Jr., G.W., Raufi, A., Breakstone, R., Almhanna, K., Carneiro, B.A., Safran, H., and **El-Deiry, W.S.** Variation in FOLFOX, FOLFIRI, and FOLFOXIRI effects on CD8+ T cell and PDL1 levels inMSS CRC patients. 2023 ASCO Annual Meeting, June 2-6, 2023, Chicago, IL.

522- Holder, S.L., Winn, R.A., and **El-Deiry, W.S.** The historically black colleges and universities cancer trial consortium: A way forward to diversifying cancer clinical trials. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

523- Carlsen, L., Pinho-Schwermann, M., Zhang, L., Elliott, A., Huntington, K., MacDonald, W.J., Verschleiser, B., Wu, L.J., and **El-Deiry, W.S.** Modulation of the MSS and MSI colorectal cancer immune microenvironment with FOLFOX and FOLFIRI -/+ anti-PD-1 immunotherapy. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

524- Zhao, S., Zhou, L., Zhang, S., and **El-Deiry, W.S.** Targeting the convergence on HIF-1α of CDK4/6 and MAPK pathway: Implications for enhanced anticancer strategies. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

525- Srinivasan, P.R., George, A., Chou, C., Pinho-Schwermann, M., Ghandali, M., Tajiknia, V., Porat, Y., Giladi, M., Armstead, A., Uzun, A., Wong, E.T., and **El-Deiry, W.S.** Tumor treating fields induce the integrated stress response, alter the transcriptional signatures of cellular metabolism, and modulate immune-related cytokines dependent and independent of p53. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

526- Tian, X., Srinivasan, P., and **El-Deiry, W.S.** ClpP-dependent and -independent activation of HRI kinase by small molecules. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

527- Srinivasan, P.R., De La Cruz, A.J., Pinho-Schwermann, M., George, A., MacDonald, W.J., Zhang, S., and **El-Deiry, W.S.** Small molecule NSC59984 stimulates mitochondria-dependent ferroptosis and overcomes integrated stress response pro-survival signaling in pre-clinical pancreatic and colorectal cancer models. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

528- Strandberg, J., Louie, A., MacDonald, W., Srinivasan, P., Zhang, L. Zhou, L., Lee, S., and **El-Deiry, W.** Post-exposure suppression of radiation pneumonitis suggests non-redundant independent effects of TGF-beta and TRAIL/DR5. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

529- Muquith, M. Espinoza, M., Elliott, A., Xiu, J., Seeber, A., **El-Deiry, W.**, Antonarakis, E.S. Graff, S., Hall, M.J., Borghaei, H., Hoon, D.S., Liu, S.V., Ma, P.C., McKay, R.R., Wise-Draper, T., Marshall, J., Sledge, G.W., Spetzler, D., Zhu, H., and Hsieh, D. Tissue-specific thresholds and microenvironment correlates of tumor mutation burden associated with immunotherapy benefit and prognosis in microsatellite stable cancers. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

530- Chan, J., Lannigan, A.J., Sun, G., Prabhu, V.V., Edwards IV, R., Zhang, L. Zhou, L., **El-Deiry, W.S.** and Raufi, A.G. The imipridone ONC212 cooperates with MEK and immune checkpoint inhibition to elicit *in vivo* regression of KPC mouse pancreatic tumors. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

531- Tajiknia, V., Srinivasan, P., PInho-Schwermann, M., MacDonald, W., Purcell, C., and **El-Deiry, W.** Co-treatment with KRAS G12D inhibitor MRTX1133 plus TTFields against human pancreatic and Colorectal cancer cell lines results in synergistic up-regulation of cleaved PARP in KRAS G12D & unexpectedly in KRAS G12V as well. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

532- Abraham, J., Domenyuk, V., Borderias, M., Yoshino, T., Heath, E.I., Lou, E., Liu, S., Marshall, J, **El-Deiry, W.S.**, Shields, A., Dietrich, M., Nakamura, Y., Fujisawa, T., Halbert, D.D., Sacchetti, D., Stahl, S., Stark, A., Klimov, S., Antani, S., Nabhan, C., Swensen, J., Poste, G., Oberley, M. Radovich, M., Sledge, Jr., G.W., and Spetzler, D. AI enabled whole exome& transcriptome liquid biopsy addressing MCED, MRD, and therapy selection on a single platform. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

533- Costeas, C.P., Purcell, C., and **El-Deiry, W.S.** Potential for a novel therapeutic target: Effects of lactate & lactylation in expression of key regulatory cancer proteins. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

534- Schwermann, M., Hadfield, M., Lu, S., Srinivasan, P., Tajiknia, V., MacDonald, W., George, A., Zhang, S., Zhang, L., Meza, K.S., De Souza, A., Golijanin, D., Hyams, E., Lagos, G., Holder, S., Mega, A., Sedivy, J., Safran, H., **El-Deiry, W.**, and Carneiro, B. Androgen deprivation therapy (ADT) and senescence-associated secretory phenotype (SASP) *in vitro*: Correlation with SASP in tumor specimens as well as in the serum of patients after ADT. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

535- Ding, E.C., Pinho-Schwermann, M., Zhang, S., Purcell, C., and **El-Deiry, W.S.** Sensitivity of ONC201/TIC10 cancer therapeutic on neuroendocrine prostate cancer (NEPC) and neuroendocrine differentiation (NED). 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

536- Roady, T.J., Stubbs, N., Chen, J., Xia, Y., Uruchurtu, A.S., Tian, X., Zhou, L., and **El-Deiry, W.S.** Impact of hypoxia on the integrated stress response activated by imipridones ONC201 and ONC206 in pediatric diffuse midline glioma cells. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

537- Sanchez Sevilla Uruchurtu, A., Roady, T., Anderson, A., and **El-Deiry, W.S.** Chk1/2 inhibition enhances response to lurbinectedin treatment in small cell lung cancer. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

538- Zhou, L., Zhang, L., Zhang, J., Zhang, S., and **El-Deiry, W.S.** Preclinical combination of ONC206 with radiotherapy and temozolomide in a GBM mouse orthotopic model. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

539- Tian, X., and **El-Deiry, W.S.** Combined treatment with PG3 and Nelfinavir induced synergistic apoptosis though sustained activation of integrated stress response. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

540- Schwermann, M., Srinivasan, P., MacDonald, W., Tajiknia, V., Schmidt, A., Zhang, S., Carlsen, L., George, A., Purcell, C., Lu, S., Hadfield, M., Mega, A., Carneiro, B., and **El-Deiry, W.** TRAIL-NK-92 MI as a novel adoptive therapy for castration-resistant prostate cancer (CRPC): Preliminary *in vitro* results. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

541- Schwermann, M., Carneiro, B., Lu, S., De Souza, A., Hadfield, M., Mega, A., Lagos, G., Khaleel, S., Golijanin, D., Holder, S., Srinivasan, P., MacDonald, W., George, A., Zhou, L., Zhang, L., and **El-Deiry, W.** Patient-derived MTAP-deleted bladder cancer organoid model: A unique platform for drug development. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

542- Tummala, T., Sevilla Uruchurtu, A.S., Liguori, N.R., Abbas, A.E., Azzoli, C.G., and **El-Deiry, W.S.** Synergistic combinations of lurbinectedin with ONC212 in pancreatic cancer. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

543- Sun, G., Lannigan, A.J., Chan, J., Schwermann, M., Prabhu, V.V., Zhou, L., **El-Deiry, W.S.**, and Raufi, A.G. Imipridones ONC201 and ONC212 exhibit anti-tumor activity in biliary tract cancers and synergy when combined with trametinib and olaparib *in vitro.* 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

544- Lannigan, A.J., Chan, J., Schwermann, M., Zhou, L., Prabhu, V.V., Dame, M., Brenner, D., **El-Deiry, W.S.**, and Raufi A.G. TRAIL-inducing imipridone ONC201/TIC10 demonstrates anti-neoplastic effects in colonic adenoma-derived organoids. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

545- Clark, J.S., Jimenez-Macias, J., Vaughn-Beaucaire, P., Zhang, S., **El-Deiry, W.**, Lulla, R., and Lawler, S. Exploring the effects of Indirubins in pediatric diffuse high grade glioma models**.** 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

546- MacDonald, W.J., Srinivasan, P.R., Pinho-Schwermann, M., Tajiknia, V., Purcell, C., Carlsen, L., and **El-Deiry, W.S.** ITGB6 as a predictive biomarker for overall prognosis and PD-(L)1 immune checkpoint blockade response in various cancer types. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

547- Xia, Y., Zhang, L., Ghandali, M., Schwermann, M.P., and **El-Deiry, W.** The anti-tumor efficacy and immune effects of combining of ceralasertib, an oral ATR kinase inhibitor, with imipridones, in prostate cancer treatment *in vitro* and *in vivo.* 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

548- Zhang, S., Zhou, L., Zhang, L., Pinho-Schwermann, M., Carneiro, B., Sedivy, J., and **El-Deiry, W.S.** Small molecule NSC59984 synergizes with PARP inhibitors in BRCA1 wild type ovarian cancer. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

549- Weiskittel, T., Huntington, K., Zhang, L., Koukol, A., Carneiro, B.A., Li, H., Ugolkov, A., **El-Deiry, W.**, and Mazar, A. Identification of potential immune biomarkers for GSK-3 inhibitor elraglusib (9-ING-41) in patients with relapsed/refractory metastatic cancer. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

550- MacDonald, W.J., Srinivasan, P.R., Pinho-Schwermann, M., Zhang, S., Tajiknia, V., Purcell, C., Strandberg, J., Stubbs, N., and **El-Deiry, W.S.** Integrin αvβ6 upregulation as a mechanism of T-cell evasion in head and neck squamous cell carcinoma. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

551- Chen, J., Roady, T.J., Zhou, L., and **El-Deiry, W.S.** Synergy between ONC201 and temozolomide on ATF4 integrated stress response in glioblastoma. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

552- Purcell, C., Srinivasan, P., Pinho-Schwermann, M., MacDonald, W., Ding, E.C., Tajiknia, V., and **El-Deiry, W.** In-vitro efficacy of Dordaviprone/GSK126 combination therapy on castration resistant and neuroendocrine prostate cancer. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

553- Ghandali, M., Srinivasan, P., Xia, Y., Wong, E.T., Sobol, R.W., Zhou, L., Carneiro, B.A., Graff, S.L., and **El-Deiry, W.S.** Tumor Treating Fields (TTFields) show efficacy in Triple-Negative breast cancer (TNBC) cells alone and in combination with PARP inhibitor Talazoparib. 115th Annual AACR meeting, April 5-10, 2024, San Diego, CA.

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March 22, 2018 Neoadjuvant therapy improves outcomes for locally advanced rectal cancer https://goo.gl/TS9E49

April 13, 2018 Shorter adjuvant chemotherapy duration may be sufficient for stage III colon cancer https://goo.gl/U2Jcuf

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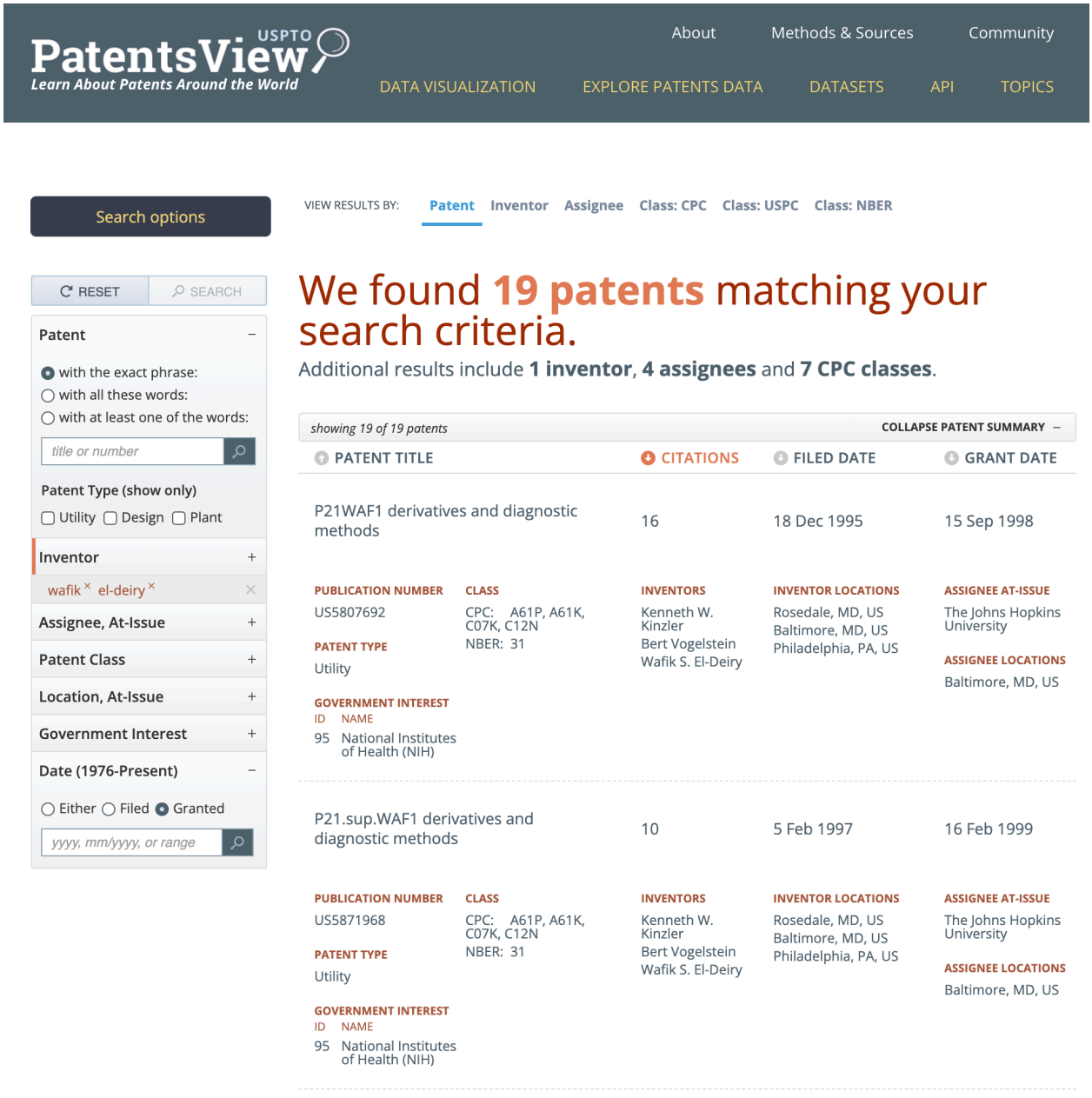

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PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Small molecule trail gene induction by normal and tumor cells as an anticancer therapy	8	30 Apr 2012	18 Mar 2014

PUBLICATION NUMBER US8673923

PATENT TYPE Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

CLASS CPC: A61K, A61P, C07K, G01N
NBER: 31

INVENTORS Gen Sheng Wu, Joshua E. Allen, Wafik S. El-Deiry

INVENTOR LOCATIONS Troy, MI, US; Hershey, PA, US; Via Enrico Fermi, PA, US

ASSIGNEE AT-ISSUE The Penn State Research Foundation

ASSIGNEE LOCATIONS State College, PA, US

Small molecule trail gene induction by normal and tumor cells as an anticancer therapy	5	17 Sep 2015	31 Jan 2017

PUBLICATION NUMBER USRE46290

PATENT TYPE Reissue

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

CLASS

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Compound for anti-cancer therapy that acts by targeting GOF mutant P53 and stimulates P73 to restore the P53 pathway signaling	1	29 Sep 2015	18 Jun 2019

PUBLICATION NUMBER US10322123

PATENT TYPE Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

CLASS CPC: A61K, A61P, C07D

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PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Molecular beacons, methods and kits for detecting DNA damage response	1	1 Sep 2006	30 Jun 2009

PUBLICATION NUMBER
US7553955

CLASS
CPC: C12Q
NBER: 14

PATENT TYPE
Utility

GOVERNMENT INTEREST

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95	National Institutes of Health (NIH)

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Small molecule TRAIL gene induction by normal and tumor cells as an anticancer therapy — 1 — 19 Sep 2016 — 25 Apr 2017

PUBLICATION NUMBER
US9629842

CLASS
CPC: A61K, A61P, C07K, G01N

PATENT TYPE
Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

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Small molecule TRAIL gene induction by normal and tumor cells as an anticancer therapy — 1 — 8 Jun 2015 — 27 Sep 2016

PUBLICATION NUMBER
US9452165

CLASS
CPC: A61K, A61P, C07K, G01N

PATENT TYPE
Utility

GOVERNMENT INTEREST

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95	National Institutes of Health (NIH)

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PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Small molecule trail gene induction by normal and tumor cells as an anticancer therapy	1	22 Jul 2014	7 Jul 2015

PUBLICATION NUMBER
US9072744

CLASS
CPC: A61K, A61P, C07K, G01N

PATENT TYPE
Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

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ASSIGNEE AT-ISSUE
The Penn State Research Foundation

ASSIGNEE LOCATIONS
State College, PA, US

Small molecule trail gene induction by normal and tumor cells as an anticancer therapy	1	27 Feb 2014	23 Jun 2015

PUBLICATION NUMBER
US9061032

CLASS
CPC: A61K, A61P, C07K, G01N

PATENT TYPE
Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

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ASSIGNEE AT-ISSUE
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ASSIGNEE LOCATIONS
State College, PA, US

Compound for anti-cancer therapy that acts by targeting GOF mutant p53 and stimulates p73 to restore the p53 pathway signaling	0	29 Apr 2019	18 Aug 2020

PUBLICATION NUMBER
US10744133

CLASS
CPC: A61K, A61P, C07D

PATENT TYPE
Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

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PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Compounds for repressing cancer cell growth	0	23 Jan 2019	21 Dec 2021

PUBLICATION NUMBER US11203598

CLASS CPC: A61K, A61P, C07D

PATENT TYPE Utility

GOVERNMENT INTEREST

ID	NAME
95	National Institutes of Health (NIH)

INVENTORS Wafik S. El-Deiry; Shengliang Zhang; Liz J. Hernandez Borrero

INVENTOR LOCATIONS Philadelphia, PA, US; Philadelphia, PA, US; Philadelphia, PA, US

ASSIGNEE AT-ISSUE Institute For Cancer Research

ASSIGNEE LOCATIONS Philadelphia, PA, US

PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Dual inhibition of CDK and HSP90 destabilize H1F1 α and synergistically induces cancer cell death	0	12 Nov 2019	27 Apr 2021

PUBLICATION NUMBER US10987356

CLASS CPC: A61K, A61P

PATENT TYPE Utility

GOVERNMENT INTEREST

ID	NAME
—	

INVENTORS Wafik S. El-Deiry; Shuai Zhao

INVENTOR LOCATIONS Philadelphia, PA, US; Philadelphia, PA, US

ASSIGNEE AT-ISSUE Institute For Cancer Research

ASSIGNEE LOCATIONS Philadelphia, PA, US

PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Dual inhibition of CDK and HSP90 destabilize HIF1alpha and synergistically induces cancer cell death	0	26 Feb 2018	4 Aug 2020

PUBLICATION NUMBER US10729692

CLASS CPC: A61K, A61P

PATENT TYPE Utility

GOVERNMENT INTEREST

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INVENTORS Wafik S. El-Deiry; Shuai Zhao

INVENTOR LOCATIONS Philadelphia, PA, US; Philadelphia, PA, US

ASSIGNEE AT-ISSUE Institute For Cancer Research

ASSIGNEE LOCATIONS Philadelphia, PA, US

○ with at least one of the words:

title or number

Patent Type (show only)

☐ Utility ☐ Design ☐ Plant

Inventor +

wafik × el-deiry ×

Assignee, At-Issue +

Patent Class +

Location, At-Issue +

Government Interest +

Date (1976-Present) −

○ Either ○ Filed ◉ Granted

yyyy, mm/yyyy, or range

showing 19 of 19 patents — COLLAPSE PATENT SUMMARY −

PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
miR-3132 upregulation of the TRAIL pathway and apoptotic activity in cancer cells	0	11 Mar 2019	14 Feb 2023

PUBLICATION NUMBER: US11578324
CLASS: CPC: A61K, A61P, C07K, C12N, C12Q
PATENT TYPE: Utility
GOVERNMENT INTEREST — ID NAME: —
INVENTORS: Wafik S. El-Deiry; Amriti R. Lulla
INVENTOR LOCATIONS: Philadelphia, PA, US; Philadelphia, PA, US
ASSIGNEE AT-ISSUE: Institute For Cancer Research
ASSIGNEE LOCATIONS: Philadelphia, PA, US

Prodigiosin analogs	0	10 Apr 2017	19 May 2020

PUBLICATION NUMBER: US10654801
CLASS: CPC: A61K, A61P, C07D
PATENT TYPE: Utility
GOVERNMENT INTEREST — ID NAME: 95 National Institutes of Health (NIH)
INVENTORS: Wafik S. El-Deiry; Shengliang Zhang; Xiaobing Tian
INVENTOR LOCATIONS: Philadelphia, PA, US; Philadelphia, PA, US; Philadelphia, PA, US
ASSIGNEE AT-ISSUE: Institute For Cancer Research
ASSIGNEE LOCATIONS: Philadelphia, PA, US

Prodigiosin analogs and methods of use	0	21 Oct 2020	27 Dec 2022

PUBLICATION NUMBER: US11535608
CLASS: CPC: A61P, C07D
PATENT TYPE: Utility
GOVERNMENT INTEREST — ID NAME: 95 National Institutes of Health (NIH); 113 National Heart, Lung, and Blood Institute (NHLBI)
INVENTORS: Wafik S. El-Deiry; Xiaobing Tian
INVENTOR LOCATIONS: Philadelphia, PA, US; Philadelphia, PA, US
ASSIGNEE AT-ISSUE: Institute For Cancer Research
ASSIGNEE LOCATIONS: Philadelphia, PA, US

Prodigiosin analogs and methods of use	0	27 Apr 2019	22 Dec 2020

PUBLICATION NUMBER: US10870640
CLASS: CPC: A61P, C07D
PATENT TYPE: Utility
GOVERNMENT INTEREST — ID NAME: 95 National Institutes of Health (NIH)
INVENTORS: Wafik S. El-Deiry; Xiaobing Tian
INVENTOR LOCATIONS: Philadelphia, PA, US; Philadelphia, PA, US
ASSIGNEE AT-ISSUE: Institute For Cancer Research
ASSIGNEE LOCATIONS: Philadelphia, PA, US

Treatment of tumors with miRNA targeting CDK4/CDK6	0	26 Feb 2018	15 Jun 2021

PUBLICATION NUMBER: US11034959
CLASS: CPC: A61P, A61K, C12N
PATENT TYPE: Utility
GOVERNMENT INTEREST — ID NAME: —
INVENTORS: Wafik S. El-Deiry; Amriti R. Lulla
INVENTOR LOCATIONS: Philadelphia, PA, US; Philadelphia, PA, US
ASSIGNEE AT-ISSUE: Institute For Cancer Research
ASSIGNEE LOCATIONS: Philadelphia, PA, US

Ongoing Research Support

HS OTHER SUPPORT
For All Application Types – DO NOT SUBMIT UNLESS REQUESTED

*Name of Individual: El-Deiry, Wafik Commons ID: WEL-DEIRY
Other Support – Project/Proposal

Title: COBRE: Center for Computational Biology of Human Disease
Major Goals: The long-term goal of the Center is to grow a nexus of computational biology infrastructure for the greater Brown and hospital environments that will benefit all of Rhode Island. The objective of this Phase 2 program is to strengthen the infrastructure of the CBHD COBRE to ensure the transition of junior faculty Project Leaders to R01-funded scientists and raise the computational proficiency and diversity of the broader biomedical research community.
Dr. El-Deiry serves as mentor to a Jr. Project Leader.

Status of Support: Current
Project Number: 5P20GM109035-08 Name of PD/PI: Rand, David
Source of Support: National Institute of General Medical Sciences Primary Place of Performance: Brown University
Project/Proposal Start and End Date: (MM/YYYY) (if available): 08/2021-07/2026 Total Award Amount (including Indirect Costs): $10,822,554
Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.15 AY, 0.03 S

Title: FIA-Morehouse School of Medicine and the Legorreta Cancer Center at Brown University

Major Goals: The goal of this research is to support the ACS Diversity in Cancer Research Institutional Development Grant (DCR-IDG) awarded to Morehouse School of Medicine (MSM) through collaboration with Dr. Brian Rivers at MSM, with a primary focus on reducing cancer disparities in the United States. This is a very important initiative from the ACS that over the next several years will launch and guide the careers of 80 faculty and 24 students at 4 HBCUs. At MSM, the DCR-IDG program supports 4 pilot awards to junior faculty per year, 2 K awards, 2 post-doctoral fellows and 6 masters scholars.

Status of Support: Current
Project Number: FIA-22-002-01-FIA
Name of PD/PI: El-Deiry, Wafik
Source of Support: American Cancer Society Primary Place of Performance: Brown University

Project/Proposal Start and End Date: (MM/YYYY) (if available): 04/2022-03/2026 Total Award Amount (including Indirect Costs): $125,000
Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.3 AY, 0.06 S

Title: Institutional Research Grant
Major Goals: The American Cancer Society Institutional Research Grant (ACS-IRG) to Brown University's Legorreta Cancer Center (LCC) supports pilot projects by junior investigators doing cancer research. The awards will provide up to $40,000 in support for cancer pilot projects, and three awards will be made each year.
Status of Support: Current

Project Number: IRG-23-1154606-01-IRG Name of PD/PI: Wafik El-Deiry
Source of Support: American Cancer Society Primary Place of Performance: Brown University
Project/Proposal Start and End Date: (MM/YYYY) (if available): 01/2024-12/2026
Total Award Amount (including Indirect Costs): $360,000
Person Months (Calendar/Academic/Summer) per budget period

Year (YYYY)	Person Months (##.##)
2026	0.0 AY, 0.0 SS

Title: Characterization of MTAP-deleted and wild-type urothelial carcinomas and development of organoids from fresh specimens from MTAP-deleted urothelial carcinoma for drug screens.
Major Goals: Using MTAP-deficient urothelial carcinomas we here aim to investigate molecular features by investigating tumor gene expression analysis, characterizations of TME by immune cell profiling using IHC and spatial transcriptomics technologies, and correlation with clinical features and outcomes. We also aim to prospectively develop organoids from fresh specimens from MTAP-deleted urothelial carcinoma.
Status of Support: Current
Project Number: 10052235 (OIP 6631) Name of PD/PI: El-Deiry, Wafik
Source of Support: AstraZeneca International
Primary Place of Performance: Brown University

Project/Proposal Start and End Date (MM/YYYY) (if available): 04/2024-11/2026
Total Award Amount (including Indirect Costs): $861,300
Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.05 AY, 0.01 SS

Title: Preclinical therapeutic modulation of HIF and TRAIL responses
Major Goals: We hypothesize that modulation by therapeutic agents targeting HIF1-alpha or TRAIL will reduce HIF1-alpha and increase TRAIL, there will be anti-tumor efficacy in vivo with less toxicity from pneumonitis. We will test the hypothesis through the following goal: Testing of miR-6883 and 3132 -/+ LNP formulations in cell culture and tumor models in vivo.
Status of Support: Current
Project Number: N/A
Name of PD/PI: El-Deiry, Wafik
Source of Support: Smurf-Therapeutics, Inc.
Primary Place of Performance: Brown University
Project/Proposal Start and End Date (MM/YYYY) (if available): 01/2025-11/2026 Total Award Amount (including Indirect Costs): $240,451
Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.3 AY, 0.06 SS

Title: Stem Cells and Aging
Major Goals: This application focuses on neural and hematopoietic stem cells, their microenvironments and the impact of aging, fibrosis, and senescence on their regulation and evolution to diseases of the central nervous system and bone marrow. Dr. Wafik El-Deiry will assist the program members with efforts to translate discoveries to clinical protocols and to patients.
Status of Support: Pending Project Number: P20GM119943 Name of PD/PI: Quesenberry, Peter J.
Source of Support: NIGMS
Primary Place of Performance: Rhode Island Hospital
Project/Proposal Start and End Date: (MM/YYYY) (if available): 07/2023-06/2028
Total Award Amount (including Indirect Costs): $931,239 (Brown University subaward) Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.2 AY, .04 S
2027	0.2 AY, .04 S
2028	0.2 AY, .04 S

Title: Innate immune agonists to rescue cancer therapy-induced tissue injury
Major Goals: We hypothesize that TRAIL pathway agonists including ONC201/TIC10 and TLY012 mitigate lethality, severe pneumonitis, fibrosis, dermatitis, and other adverse effects of radiotherapy for cancer. Specific Aim 1: Investigate mechanisms by which cytokines and chemokines contribute to the pathogenesis of radiation-induced pneumonitis or rescue from it after treatment with TRAIL pathway agonists. Specific Aim 2: Investigate therapeutic implications of rescue from tissue injury by TRAIL pathway agonists

Status of Support:Current
Number: N/A
Name of PD/PI: El-Deiry, Wafik
Source of Support: Warren Alpert Foundation Primary Place of Performance: Brown University
Project/Proposal Start and End Date: (MM/YYYY) (if available):6/2025-5/2027
Total Award Amount (including Indirect Costs): $852,895 Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2026	0.5 AY, 0.1 SS
2027	0.5 AY, 0.1 SS

P**ENDING**

Title: Investigating the role of GABA type A ion channel (GABA A) receptors in Triple Negative Breast cancer (TNBC) growth
Major Goals: The overall objective of the proposal is to investigate the role of membrane-bound GABA type A ion channel (GABAA) receptors in Triple Negative Breast cancer (TNBC) cells as well as tumor-infiltrating immune cells.
Status of Support: Pending Project Number: N/A
Name of PD/PI: Suryanarayanan, Asha Source of Support: National Cancer Institute Primary Place of Performance: Brown University
Project/Proposal Start and End Date: (MM/YYYY) (if available):12/2025-11/2026
Total Award Amount (including Indirect Costs): $21,904

Person Months (Calendar/Academic/Summer) per budget period.

Year (YYYY)	Person Months (##.##)
2025	0.5 AY, 0.1 SS
2026	0.5 AY, 0.1 SS

OVERLAP

There is currently no funding support or scientific overlap between the aims in my current and pending grants.

I, PD/PI or other senior/key personnel, certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with Public Health Services terms and

conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

Completed Research Support

Howard Hughes Medical Institute (PI: El-Deiry) 1/1/95-8/31/04
The Hughes Institute provided support for Dr. El-Deiry's research program in the form of entire salary support for Dr. El-Deiry and four post-doctoral Associates, a Research Specialist, an Administrative Assistant, as well as a supply budget to support their work.

NIH R01-CA075454 (PI: El-Deiry) 7/1/98-6/30/02
KILLER/DR5 and tumorigenesis
The major goals were: (1) To investigate loss of expression of KILLER/DR5 in cancer cells as a mechanism of inactivation. (2) To investigate loss of function and dominant negative effect of a human head and neck tumor derived truncating mutation in the death domain of KILLER/DR5. (3) To investigate the role of targeted disruption of the KILLER/DR5 gene in development and tumorigenesis.

NIH R01CA097100 (PI: El-Deiry) 8/1/02-7/31/07
CARP1, a novel cell death regulator
Goals included: (1) To map determinants of ubiquitin ligase activity and downstream function. (2) To understand regulation and cleavage of CARP. (3) To study the functional consequences of perturbing or blocking CARP expression.

NIH R01CA094975 (PI: El-Deiry) 4/1/02-3/30/07
Unique BRCA1 transcriptional response leading to repair
Major goals included: (1) To investigate which p53 targets BRCA1 is required for and how BRCA1 directs p53 towards arrest and repair and away from death. (2) To evaluate the contribution of DDB2 and transcription towards the repair activity of BRCA1 and breast cancer. (3) To determine the structural features within BRCA1 that are required for activation of p53 targets.

NIH P01CA098101 (PI: Rustgi) 7/1/03-8/30/08
Project 3 (Project Leader: El-Deiry): TRAIL apoptotic pathway in esophageal cancer
Major goals included: (1) To delineate the mechanisms of TRAIL sensitivity and resistance in esophageal cancer. (2) To investigate the role of TRAIL receptors in p53-mediated cell death and chemosensitivity in normal esophagus and esophageal cancer. (3) To investigate the physiological consequences of targeting TRAIL decoy expression to esophageal epithelium. (4) To investigate the consequences of manipulation of the TRAIL pathway in an esophagus reconstruct (organotypic cell culture) model.

NIH P01CA75138 (PI: McKenna) 7/1/98-6/30/08
Project 3 (Project Leader: El-Deiry): p53 targets and chemo/radiosensitivity
Major goals included: (1) Identify and characterize candidate p53 target genes that regulate tissue radiosensitivity. (2) Investigate the molecular basis of tissue and cell-specific p53 activation and p53 target gene regulation. (3) Investigate the relative importance of specific p53 targets to irradiation-induced cell death of normal and tumor tissues using in-vitro and in-vivo strategies. (4) Investigate the role of polo-like kinase 2 as a p53 target in control of a G2/M checkpoint and therapeutic response to radiation.

Littlefield-AACR Grant in Metastatic Colon Cancer Research (PI: El-Deiry) 7/1/06-6/30/09
Novel therapy for resistant metastatic colon cancer

NIH U54 CA105008 (PI: El-Deiry) 9/30/03-8/31/09
Network for Translational Research in Optical Imaging Administrative Core (Core Director: El-Deiry), Bioluminescence Core (Core Director: El-Deiry), Project 1 Leader: Imaging Cancer Therapeutic Response; Major goals included: (1) Imaging apoptosis as a marker of therapeutic response in tumor xenografts. (2) Imaging gene induction responses during cancer therapeutic responses in vivo, and (3) Using molecular imaging to identify and test novel anti-cancer agents capable of reversing therapeutic resistance.

Anaphore sponsored research agreement (PI: El-Deiry) 6/1/10-5/31/12
5% effort – 0.6 Calendar Months Total Direct Costs: $120,000
Atrimer-induced cell death through TRAIL death receptors
Major goals: (1) To test atrimers for cell death induction in human cancer cell lines. (2) To evaluate uptake and anti-tumor effects of atrimers in a tumor xenograft model.

Genentech sponsored clinical trial support (PI: El-Deiry) 3/3/11-2/28/12
Contract Award Number: APO3583G Total Costs: $918,258
A Phase 1b, open-label, dose-escalation study of the safety and pharmacokinetics of multiple doses of Dulanermin (TRAIL/APO-2L) administered intravenously in combination with Camptosar/Erbitux chemotherapy or the FOLFIRI regimen with or without Bevacizumab in subjects with previously treated metastatic colorectal cancer. It should be clear that the total cost listed for a clinical protocol is not awarded in the same way as an NIH grant but rather funds are dispensed as patients are accrued on trial. In this case 50K were awarded for patient enrollement before the protocol ended.

NIH R01 CA123258 (PI: El-Deiry) 07/01/06-06/30/12
15% effort – 1.8 Calendar Months Direct Costs/yr: $165,066
Hypoxia signaling to checkpoint activation and apoptosis
Major goals: (1) To investigate hypoxia-induced apoptotic checkpoint. (2) To examine requirements in tumor suppression of p53 targets and other pathways modulated by hypoxia in vivo.

NIH N01-CN43302-WA-17 (PI: El-Deiry) 07/01/09-10/29/12
9% effort – 1.08 Calendar Months Total Direct Costs: $150,513
Targeting the TSGp53 signaling pathway in cancer prevention
Major goals: (1) To identify hits from a high-throughput 140,000 NCI chemical library screen, with the ability to restore functional transcriptional activity and induce tumor cell death or inhibit cell growth. (2) To prioritize hits with regard to genotoxicity, therapeutic window in culture, and target validation and scale up synthesis for in vivo chemoprevention studies in an animal model.

N01-CN43302-WA-27 (PI: El-Deiry) 04/01/11-10/29/12
Total Direct Costs: $139,870
"NCI PreClinical In Vitro/In Vivo Screening Assays for Cancer Preventive Agent Development"
Major Goals: (1) To identify hits from an additional 50K commercially available (Chembridge) chemical library, by screening for compounds with the ability to restore functional transcriptional activity and induce tumor cell death. (2) To prioritize hits with regard to genotoxicity, therapeutic window in culture, and target validation and scale up synthesis for in vivo chemoprevention studies in an animal model.

NIH R43 CA177002-01A1 (PI: Olson/El-Deiry) 08/01/2014 – 07/31/2015
TRAIL upregulation by TIC10 analogues Direct Costs: $140,533
Subcontract for this SBIR with Provid Pharmaceuticals to conduct biological assays on ONC201/TIC10 derivatives.

NIH R21 CA141395 (PI: El-Deiry) 07/01/2011-06/30/2014 (NCE)
3% effort – 0.3 Calendar Months Direct Costs: $125,000/year
Novel myeloma stem cell markers for therapy
Major Goals: (1) Identify novel MM cancer stem cell specific antigens and generate antibodies using phage display technology. (2) Validate antibody specificity for clonogenic MM precursor cells using *in vitro* clonogenicity assays as well as *in vivo* tumorigenicity models in mice.

Genentech Clinical Trial Support (PI: El-Deiry) 06/26/13 – 9/30/14
Contract Award Number: ML28442 Total Costs: $209,121
STEAM (Sequencing Triplet with Avastin and Maintenance): Folfoxiri/Bevacizumab Regimens (Concurrent and Sequential) vs Folfox/Bevacizumab in first-line metastatic colorectal cancer.

Morphotek sponsored research agreement (PI: El-Deiry) 11/01/08-10/31/13 (NCE)
2% effort – 0.24 Calendar Months Total Costs: $106,000

Therapeutic targeting of carbonic anhydrase activity in tumors
Major goals: (1) To evaluate CA-IX expression by western blotting and immunofluorescence in colon tumor cell lines such as HT29 or renal cell cancer cell lines such as A498. (2) To make correlations between CA-IX expression under normoxia and hypoxia with HIF expression as well as carbonic anhydrase activity using the DNSA assay. (3) To knockdown CA-IX in cell culture as well as in xenografts of HT29 and compare cell survival in culture under hypoxic serum-starved conditions over time as well as in vivo comparisons of tumor growth rates (KD versus control HT29 tumors). (4) To overexpress wild-type or active site mutant CA-IX in human tumor cells with undetectable CA-IX and evaluate effects on cell survival in culture and in vivo.

Human Genome Sciences clinical trial support (PI: El-Deiry) 3/30/11-3/31/13
Contract Award Number: HGS1012-C1103 Total Costs: $203,060
A randomized, multi-center, blinded, placebo-controlled study of Mapatumumab ([HGS1012], a fully-human monoclonal antibody to TRAIL-R1) in combination with Sorafenib as a first-line therapy in subjects with advanced hepatocellular carcinoma.

ACS RSG-13-009-01-CCD (Zheng) 01/01/2013-12/31/2016
6% effort – 0.6 Calendar Months $240,000 / yr. – Direct Costs
Proposal Title: CTC Enrichment and Analysis toward Personalized Cancer Treatment
Major goals of the project: (1) To Optimize FMSA device for viable CTC enrichment; (2) to develop a CTC size fractionation device to study CTC size distribution in clinical samples; (3) to develop a high throughput microfluidic device for CTC genetic analysis after size based enrichment; (4) to develop in vitro and in vivo technologies for primary CTC culture and drug sensitivity tests.

ACS 124171-IRG-13-042-01-IRG (PI: El-Deiry) 1/1/2013 – 12/31/2015
2% effort - 0.24 calendar Direct Costs/yr: $90,000
Proposal Title: American Cancer Society Institutional Research Grant
Major Goals of the project: The ACS IRG award will provide vital resources that will have a direct and rapid impact on the growth of our cancer research base and will support the career development of junior investigators at a time of historic lows in the availability of extramural support. The IRG pilot awards will be given to investigators within their first 6 years of independent research.

NIH R01 CA135273 (PI: El-Deiry) 05/18/2009 – 02/28/2015
15% effort – 1.8 Calendar Months Direct Costs/yr: $206,603
Modulation of sensitivity & imaging therapeutic response of hypoxic cancer cells
Major goals: (1) To investigate mechanisms of resistance to TRAIL therapy under hypoxia with specific focus on c-Myc, Mcl-1, HIF and NFkB signaling pathways. (2) To investigate mechanisms of sensitization to TRAIL under hypoxia by novel small molecules, SLMs, isolated from high throughput chemical library screening. (3) To investigate the impact of the tumor microenvironment on TRAIL plus SLM sensitivity through non-invasive in vivo imaging to tumor hypoxia and anti-tumor effects.

NIH R21 CA181419 (PI: El-Deiry) 09/09/2014 – 08/31/2017
Immunophenotyping of circulating tumor cells
Major Goals: (1) Develop a multiplex-marker based algorithm system to predict primary sites in carcinoma of unknown primary. (2) Utilize the FMSA device and other approaches for isolating live CTCs to study the heterogeneous biological properties of these cells in the context of metastatic spread.

W81XWH-16-1-0231 (PI: Gokare) 8/15/2016 - 8/14/2017
DOD Role: Mentor
Modulation of Therapeutic Response and Pharmacokinetics of 5-FU by P53 through Repression of the Pyrimidine Catabolic Gene Dihydropyrimidine Dehydrogenase (DPYD)
The major goals of this project are: 1) To assess if cancer somatic mutations of the p53 gene cause drug resistance to 5-FU through derepression of DPYD expression; and 2) To investigate the functional effects of the proline (P) polymorphic codon 72 allele (p53P72/P72) over arginine (R) (p53R72/R72) of the p53 gene in repressing DPYD expression and subsequent modulation of the efficacy of 5-FU treatment.

Morphotek sponsored research agreement (PI: El-Deiry) 08/30/16-05/31/18

2% effort – 0.24 Calendar Months Total Costs: $236,388
Assessment of cancer 3D organoid cultures as predictive assays for therapeutic efficacy in immunosuppressive tumor microenvironments (ITM).
Major goals: (1) Address if primary tissue slices from non-small cell lung cancer (NSCLC), triple-negative breast cancer (TNBC), liver cancer and pancreatic cancer grown as organoids contain sufficient stromal and immune cells that may contribute to the proprietary "Activator Signature " (AS) and "Repressor Signature" (RS). (2) Address if such organoids *de facto* produce proprietary AS and RS or other novel immune suppressive biomarkers following in vitro treatment with chemotherapy and Morphotek's proprietary mAb's. (3) Investigate a potential correlation between the expression of proprietary immune suppressive biomarkers such as AS and RS in patient organoid culture with that present in serum of the same patient. (4) Investigate correlations between AS and RS, treatment responses, biomarker expression and the molecular make-up of the tumor of origin.

Loxo sponsored research agreement (PI: El-Deiry) 08/2017-07/2018
2% effort - 0.24 calendar months Total costs: $67,500
Relative sensitivities of NTRK fusions to LOXO-101 and resistance mechanisms.
Major goals: (1) To generate stable tumor cell lines expressing various tumor-associated TRK fusions. (2) To identify the genetic background underlyning resistance to LOXO-101.

Tarmeta sponsored research agreement (PI: El-Deiry) 07/2017-01/2018
4% effort Total costs: $50,000
Determine the potential of the olaparib-JS-K hybrid prodrug as a treatment for ovarian cancer.
Major goals: (1) cell viability studies. (2) ADME, PK. (3) in vivo mouse models. (4) formulation.

P30 CA006927 (PI: Fisher) 8/12/2016 - 7/31/2021 (Until 12/18)
NIH Role: Deputy Director, Translational Res.
Comprehensive Cancer Center Program at Fox Chase
The major goal of this Cancer Center Support Grant is to provide partial salary support for professional personnel, including senior and program leadership, administration, planning and evaluation, and developmental funds, as well as support for 5 established peer-reviewed Research Programs, 12 Shared Research Resources and 2 Support Elements.

RP-09-095-01 American Cancer Society Research Professorship (PI: El-Deiry) 01/01/09-12/31/18
2% effort – 0.24 Calendar Months Direct Costs/yr: $80,000
Molecularly targeted therapy for colon and liver cancer
The Professorship provides discretionary funding to support Dr. El-Deiry's research program focused on rationally designed anti-cancer therapy based on understanding mechanisms of therapy resistance in the laboratory. Translational efforts will develop and test novel combinations in preclinical animal models and eventually clinical trials.

NIH R01 CA176289 (PI: El-Deiry) 04/18/2014 – 02/28/2019
15% effort – 1.8 Calendar Months Direct Costs/yr: $206,581
Targeting the oncogenic mutant p53 signaling in colorectal cancer therapy
Major Goals of the Project:
(1) Evaluate the efficacy and safety of Prodigiosin and other p53-restoring compounds as lead compounds to target mutant p53 in colorectal cancer. (2) Test the ability of p53-restoring compounds to target cancer stem cells in colorectal cancer harboring mutant p53.

NIH 3R01CA176289-03S1 (PI: El-Deiry) 08/01/2016-02/28/2019
Direct costs in current yr: $30,454
Diversity Supplement: Targeting the oncogenic mutant p53 signaling in colorectal cancer therapy
Major Goals of the Project:
(1) Determine molecular mechanism of CB-77xxxxx in restoring p53 pathway through p73. (2) Determination of the mechanism involved in mt p53 degradation in response to CB-77xxxxx.

Bayer support for investigator-initiated clinical protocol (PI: El-Deiry) 09/2017-08/2019

5% effort Total costs: $228,885
A Pilot Phase II, single arm, open label, investigator-initiated clinical trial of Regorafenib plus 5-FU/LV beyond progression on Regorafenib monotherapy in metastatic colorectal cancer (mCRC)

590052 (PI: Abbosh) 7/15/2018 - 7/14/2019
BCAN Role: Co-Mentor
Next Generation Sequencing to Enhance Initial Staging and Dynamically Monitor Disease Response in Upper Tract Urothelial Carcinoma. The major goals of this project are: 1) To correlate presence of MT with mutations in uDNA (MU); 2) To correlate MU persistence status with nonresponder status; and 3) To correlate MU to pathological stage and grade in RNU specimens.

COVID-19 Research Seed Grant (PI: El-Deiry) 5/15/2020-5/15/2021 0.0 academic/0.0 summer
Brown University $40,000
Reducing the lethality of SARS-CoV-2 infection through immune modulation and drug discovery
This research aims to reduce the virus' capacity to cause death, through immune modulation and drug discovery.

D&D Pharmatech Grant (PI: El-Deiry) 1/1/2020 – 12/31/2022 0.20 academic/0.04 summer
D&D Pharmatech $1,007,500
Therapeutic utility of TLY012 combinations against fibrosis-driven cancer in preclinical models and suppression of radiation-induced fibrosis and inflammation by repeated doses of TLY012
This study evaluates the efficacy and safety of combination of TLY012 plus anti-PDI and ONC201 in preclinical studies using immune-competent mouse models of cancer and cell-lines, as well as evaluate the ability of TLY012 to suppress radiation-induced tissue toxicity.

Chimerix, Inc. (PI: El-Deiry) 09/01/2022-8/30/2024 $1,000,000 total costs
Imipridone mechanisms and combinatorial therapeutics
Major Goals: To unravel the mechanisms of action of ONC201 and other existing imipridone compounds as cancer therapeutics; evaluate ONC201 and other existing imipridones as suppressors of toxic inflammatory responses; conduct preclinical studies on ONC201 and other existing imipridones in combinatorial therapeutics with translational potential; and conduct experiments in cell culture and in vivo along with assessment of biomarkers of drug efficacy.

R01CA173453-07A1 (PI: El-Deiry) 4/1/2019 – 3/31/2025 1.80 academic
NIH/NCI $2,425,123
ONC201/TIC10 Anti-tumor Effect through Regulation of the TRAIL pathway
Major Goals of the Project: (1) Investigate ONC201 effects on the tumor microenvironment through NK and T cells leading to anti-tumor and anti-metastasis effects. (2) Investigate the role of the immediate binding target for ONC201, the sub-family of dopamine receptors DRD2/DRD3, in mediating its anti-tumor effects.

WAF Research Grant (PI: El-Deiry) 1/1/2020 – 12/31/2024 1.50 academic/0.30 summer
Warren Alpert Foundation (WAF) $3,409,127
ONC212 as novel therapy for pancreatic cancer
This research investigates the hypothesis that ONC212 has anti-tumor efficacy in pancreatic cancer through engagement of GPR132 and ClpP, and the integrated stress response leading to growth arrest and cell death phenotypes, and that ONC212 may be novel, well-tolerated therapy that can be translated in the clinic as a Phase I clinical trial for patients with pancreatic cancer.

Actuate Therapeutics grant (PI: El-Deiry) 03/2022-02/2024 $133,913 total costs
GSK3β inhibition by small molecule 9-ING-41 decreases VEGF and other cytokines, and boosts NK and T cell-mediated killing of colorectal tumor cells
Major Goals: Proposed work to study if a 9-ING-41-mediated decrease of VEGF in conjunction with a 9-ING-41-mediated increase of BRAK secreted by the tumor cells increases the capacity of NK- and T cell-mediated killing of the tumor cells, utilizing a compound such as 9-ING-41 to potentially increase the host's anti-tumor immune response and decrease tumor burden along with other therapeutic agents.

AACR-Novocure TTF grant (PI: El-Deiry) 07/01/2022-06/30/2024 $250,000 total costs

Integrated Stress Response induction by TTF + ONC201 in cancer treatment
Major Goals: The goal of this research is to develop novel therapy combinations that exploit pro-apoptotic pathways due to cell stress responses engaged by imipridones and TTFields. The combinations can be developed into clinical protocols that address major unmet needs for GBM and other solid tumors. ONC201 has a superior safety profile in clinical trials with no adverse events more than grade 2, and thus its addition to TTFields in different tumor types provides a rational approach in future combination therapy development. The work addresses the problem of drug resistance in cancer and creates new treatment options for patients.