

Curriculum Vitae

Date: July 9, 2023

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



Current Position: Director, Legorreta Cancer Center at Brown University



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

American Cancer Society Research Professor

Mencoff Family University Professor of Medical Science, Brown University

Director, Joint Program in Cancer Biology, Brown Institute for Translational Science and Lifespan Cancer Institute, 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, Lifespan Cancer Institute, Rhode Island Hospital

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Link to bibliography on PubMed:

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

Link to invited Brown University Provost Richard Locke's By Faculty for Faculty Lecture series:

<https://www.youtube.com/watch?v=aOQtQUr33bE>

Link to December, 2021 Faculty Seminar at Brown: <https://www.youtube.com/watch?v=rHpptGWpbcU>

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

Link to 2015 Philadelphia 6ABC interview about President Carter's Diagnosis:

<https://www.youtube.com/watch?v=3Cg2k8XOvJk>

Link to 2021 interview about new breast cancer research from EL-DEIRY LAB:

<https://www.youtube.com/watch?v=nyw1AQI72O4&t=1s>

Link to Special Interview with Prof. Wafik S. El-Deiry (Cancer Drug Resistance) 12-22-2022

<https://cdrjournal.com/announcement/view/517>

Link to Comments by Dr. El-Deiry about Rhode Island's Legoretta Cancer Center at Brown Univ. 1-6-2023

<https://www.youtube.com/watch?v=oSnoosD4RgQ>

Link to Partnering with the State of Rhode Island to build a world-class cancer center 1-16-2023

<https://www.youtube.com/watch?v=8JQN4I6jTt8&t=4s>

Link to Cancer Rates in Rhode Island NBC10 interview with Dr. El-Deiry 2-16-2023

<https://youtu.be/f1a7pCng1k>

Curriculum Vitae

Date: July 9, 2023

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

Home Address: 1 Nayatt Point Court
Barrington, RI 02806

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

Cell Phone: (610) 800-2443

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

Date of Birth: January 23, 1961

Marital Status: Married, Evelyn; 4 children: James 21, John 19, Jennifer 19 (disabled), Julie 18

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:

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|-----------|---|
| 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 |

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| H-index: 127 Citations: 97,882 July 9, 2023 Google Scholar |
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|-------------|--|
| 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- | Director, Cancer Center at Brown University |
| 12/21- | 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)

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|------------|--|
| 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- | Member, Faculty Executive Committee (FEC), Brown University |
| 9/21- | FEC Representative, Medical Faculty Executive Committee (MFEC), Warren Alpert Medical School, Brown University |

Specialty Certification:

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

Licensure:

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|--------------|---|
| Pennsylvania | MD 054226L exp 12/31/24 (Initial License Date 8/30/1994) |
| Rhode Island | MD16548 exp 06/30/24; Controlled Substance Registration CMD16548 |
| DEA# | BE4121860 exp 8/31/24 |
| 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 |

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|------|---|
| 2020 | 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 |

Administrative Experience:

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|--------------|--|
| 7/94-2/10 | Director, Laboratory of Molecular Oncology and Cell Cycle Regulation, School of Medicine |
| 95-97 | Member, 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- 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- Faculty Advisor, Warren Alpert Medical School Cancer Research Journal Club #AMS_CRJC
- 12/21- Director, Legorreta Cancer Center at 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, 13 th Annual Young Investigator's Day, The Johns Hopkins University School of Medicine |
| 1992 | Citation, <i>Who's Who</i> (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, 1 st 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, 25 th 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 |

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| 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 9 th 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, 20 th 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- | 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 50 th Anniversary of the National Cancer Act |
| 12/21- | 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 |

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

Co-Chair P01 study section: Nov, 2021; March, 2022

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

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

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-

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:

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| 1996 | Editorial Board, <u>International Journal of Oncology</u> |
| 1997-01 | Editorial Board, <u>ASCO OnLine Journal Club</u> |
| 1999-02 | Associate Editor, <u>Cancer Research</u> |
| 1999-05 | Associate Editor, <u>Clinical Cancer Research</u> |
| 2000-06 | Editorial Board, <u>Leukemia</u> |
| 2001 | Associate Editor, <u>Cell Cycle</u> |
| 2001-19 | Founding Editor-in-Chief, <u>Cancer Biology and Therapy</u> |
| 2002-05 | Editorial Board, <u>Journal of Biological Chemistry</u> |
| 2003 | Editor, <u>Tumor Suppressor Genes</u> , Vol I & II, Methods in Mol. Biol., Humana Press |
| 2003-10 | Editorial Board, <u>Cell Death and Differentiation</u> |

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| 2003-08 | Editorial Board, <u>Molecular and Cellular Biology</u> |
| 2003-08 | Editorial Board, <u>International Journal of Cancer</u> |
| 2003 | Editorial Board, <u>Cancer Therapy</u> |
| 2004 | Editor, <u>Death Receptors in Cancer Therapy</u> , Humana Press |
| 2004 | Editorial Board, <u>Journal of Experimental and Clinical Cancer research</u> |
| 2006-08 | Section Editor, <u>Reviews in Basic and Clinical Gastroenterology, Gastroenterology</u> |
| 2006- | Series Editor, <u>Current Cancer Research</u>, Humana Press/Springer |
| 2007-10 | Associate Editor, <u>Journal of Clinical Investigation</u> |
| 2010- | Editorial Board, <u>Cancer Research</u> |
| 2010 | Academic Editor, <u>PLoS ONE</u> |
| 2010-12 | Editorial Board, <u>Journal of Cell Science and Therapy</u> |
| 2016- | Editorial Board, <u>HemOnc Today</u> (Section on Molecular Oncology) |
| 2018- | Associate Editor, Molecular Oncology, <u>HemOnc Today</u> |
| 2019- | Chief Editor for Cancer Molecular Targets and Therapeutics, <u>Frontiers in Oncology</u> |
| 2021- | Senior Editor for Medicine and Cancer Biology, <u>eLife</u> |
| 2021- | Editorial Board, <u>Cancer History Project</u> (The Cancer Letter) in commemoration of the 50 th Anniversary of the National Cancer Act |
| 2021- | Associate Editor-in-Chief, <u>American Journal of Cancer Research</u> |
| 2023-25 | Associate Editor, <u>Cancer Drug Resistance</u> |

Academic Committees at the University of Pennsylvania:

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| 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 |

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| 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 |

Academic Committees at Penn State University:

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| 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/Eribitux 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 & Utilizing Post-Veridex Single Cell Multiplex Assay in an Attempt 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.

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

- 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 Network™ 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 Sponsor 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” (Khalidoun 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 Pharmaceuticals, 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 from 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

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 algorithm" concept stage

Community Service:

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| 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," 8 th 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; 6 th 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 8 th 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 9 th 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

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

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| <u>Dipa Bhaumik, PhD</u> ; Scientist in Campisi Lab | 2001-03 |
| <u>Paul G. Corn, MD, PhD</u> (Instructor in Hem/Onc; K08 awarded 9/03); Assistant Professor, Department of GU Medical Oncology, MD Anderson Cancer Center | 2000-04 |
| <u>Peiwen Fei, M.D. Ph.D.</u> ; Staff scientist at NIH | 2001-04 |
| 2005- Assistant professor, Mayo Clinic, MN | |
| 2010- Associate Professor, Univ. of Hawaii, HI | |
| 2017- Professor, U. Hawaii | |
| <u>Bipin C. Dash, PhD</u> ; Staff Scientist, Thomas Jefferson Univ. | 1999-05 |
| <u>M. Stacey Ricci, ScD</u> ; FDA fellowship | 1999-05 |
| 2007- Pharm/Tox Reviewer, Division of Biologic Oncology products, Office of Oncology Drug Products, Office of New Drugs, CDER, FDA | |
| <u>Shulin Wang, MD PhD</u> ; 2007- Professor, Institute of Genetics, School of Life Sciences, Fudan University | 2002-05 |
| <u>John Plastaras, MD PhD</u> ; Radiation Oncology Resident, Holman Pathway, U. Penn | 2004-06 |
| 2007 Instructor in Radiation Oncology, U. Penn | |
| 2008- Assistant Professor, Radiation Oncology, U. Penn | |
| <u>Laura Rozan, PhD</u> ; Senior Consultant at Navigant Consulting | 2003-06 |
| 2012 Account Director, Oncology Franchise, ImpactRx | |
| <u>Kazuhiro Ogi, MD PhD</u> ; Faculty at Sapporo Medical University | 2005-07 |
| <u>Akiva Mintz, MD PhD</u> ; Nuclear Medicine Fellowship at Penn | 2005-07 |
| 2008- Assistant Professor, Wake Forest University | |
| 2017- Head, Nuclear Medicine, Columbia University | |
| <u>Jay Dorsey, MD PhD</u> ; Radiation Oncology Residency at Penn | 2005-07 |
| 2008- Assistant Professor, Radiation Oncology, U. Penn | |
| 2016- Associate Professor, Rad Onc, Penn | |
| <u>Paul C. Tumei, MD</u> ; Dermatology Residency at UCLA, Clinical Instructor at UCLA | 2006-07 |
| <u>Seok-Hyun Kim, MD PhD</u> ; 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, India 2003-08
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 Radiation Oncology, U. Penn 2006-10
 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 Professor Hematology-Oncology, Penn State Hershey Cancer Institute 2003-10
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

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| | <u>Bora Lim, MD</u> ; Faculty, Breast Med Onc, MDACC | 2012-14 |
| | <u>Mala Talekar, MD</u> ; Staff, CHOP, Philadelphia; GSK | 2012-14 |
| | <u>Niklas Finnberg, PhD</u> ; industry, Sweden | 2010-17 |
| | <u>Leah Kline, PhD</u> ; AACR/SU2C Grant Program | 2012-17 |
| | <u>Avital Lev, PhD</u> ; Assoc Editor, Cancer Discovery | 2016-18 |
| | <u>Jocelyn Ray, MD/PhD</u> ; GYN-ONC resident FCCC | 2018-20 |
| | <u>Fabio Tavora, MD, PhD</u> ; Pathologist, Brazil | 2019 |
| | <u>Ilyas Sahin, MD</u> ; Hem-Onc Fellow, Brown; Faculty, University of Florida | 2019-20 |
| | <u>Isacco Ferrarini, MD</u> , Oncologist, Italy | 2019-20 |
| | <u>Robyn Borsuk, MD</u> ; 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) Duke University | 2020-22 |
| Predoctoral: | <u>Kyran O. Mitchell</u> (MD, PhD Student), University of Pennsylvania School of Medicine; Resident in Surgery, Brigham and Women's Hospital (03-08) | 1996-00 |
| | <u>Raymond D. Meng</u> (MD, PhD Student) Resident, Department of Medicine, Duke University (01-04); MSKCC Hem/Onc Fellowship 2004 (Chief fellow '05-'06) 2007 Assistant Attending Physician, MSKCC 2011 Assistant Medical Director, Early Clinical Development, Genentech | 1997-00 |
| | <u>Nesrin Ozoren</u> (PhD, Biology) Post-doc with Gabriel Nunez, University of Michigan 2005- Assistant Professor, Molecular Biology and Genetics, Bogazici University, Istanbul, Turkey 2008- Associate Professor, Bogazici University | 1998-02 |
| | <u>Joanna K. Sax</u> (Cell and Molecular Biology); in law school at U. Penn 2006- Legal Associate, Morgan Lewis & Bockius, LLP, San Francisco 2009- Faculty, California Western Law School | 2000-03 |
| | <u>E. Robert McDonald, III</u> (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 Scholar) 2005-07
 Graduate admission to Harvard
Robyn T. Sussman (B.S.); Graduate admission to 2006-07
 Thomas Jefferson University
Patrick A. Mayes (Ph.D. in Pharmacology); post-doc 2006-09
 with John Maris at Children's Hospital of Philadelphia
 2010 Principal Scientist, GSK
 2011 Investigator, Glaxosmithkline
Luv Patel (Penn undergraduate Vagelos Scholar); 2007-10
 Medical Student at Harvard Medical School
Lanlan Zhou (Ph.D. in Bioengineering at Penn); Pos 2007-10
 doc in El-Deiry Lab at Penn State
Joshua E. Allen (Ph.D. in Biochem & Mol Biol at 2009-12
 Univ. of Pennsylvania)
Jean-Nicolas Gallant (MSTP Program, Vanderbilt) 2010-12
Varun Prabhu (Ph.D. in Molecular Medicine at 2011-16
 Penn State); Associate Director at Oncoceutics
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 2012-17
 Joshi Lab at Yale University School of Medicine
Jessica Wagner (Ph.D. from Temple); post-doc at 2014-18
 St. Jude Children's Research Hospital
Amriti Lulla (Ph.D. from Penn State); post-doc in 2014-18
 Keyomarsi Lab at MD Anderson Cancer Center
Marie Ralff (MD/PhD student Temple/FCCC) 2015-19
Aakash Jhaveri (Masters in Biotechnology at 2019-20
 Brown University); MD/PhD program at Jefferson

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| <u>Liz Hernandez Borrero</u> (PhD at Brown Univ); Fellow | 2017-21 |
| at Johnson & Johnson | |
| <u>Shuai Zhao</u> (PhD at Brown University) | 2014-21 |
| Young Lee (Brown Undergraduate); industry | 2019-22 |
| Kelsey Huntington (PhD student, Pathobiology) | 2020-23 |
| Laura Wu (Masters in Biotechnology student) | 2020-22 |
| Jared Mompont (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 |
| Ujwal Punyamurtula (Masters Student) | 2021-22 |
| Tej Tummala (Brown Undergraduate) | 2022-23 |
| Thomas Brown (Brown Undergraduate) | 2022-23 |

Current Laboratory Mentees:

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| Shengliang Zhang, MD, PhD (Assistant Professor) | 2019- |
| Lanlan Zhou, MD, PhD (Assistant Professor) | 2019- |
| Xiaobing Tian, PhD (Assistant Professor) | 2019- |
| Yiqun Zhang, MD, PhD (visiting scientist from China) | 2019- |
| Alexander Raufi, MD (Assistant Professor) | 2019- |
| Lindsey Carlsen (PhD student, Pathobiology) | 2020- |
| Shuai Zhao (post-doc after PhD defense, Brown) | 2021- |
| Ash Uruchurtu (PhD Student, Pathobiology) | 2021- |
| Alex Wong (MD/PhD Student) | 2021- |
| Jillian Strandberg (Masters Student) | 2021- |
| Vida Tajiknia, MD (Visiting Scientist from Iran) | 2022- |
| Maryam Ghandali, MD (Visiting Scientist from Iran) | 2022- |
| William MacDonald (Brown Undergraduate) | 2022- |
| Brooke Verschleiser (Brown Undergraduate) | 2022- |
| Linda (Yutong) Xia (Masters Student) | 2022- |
| Dinara Ryspayeva, MD, PhD (Visiting Assistant Professor from Ukraine) | 2023- |
| Nataliia Verovkina, MD, PhD (Visiting Assistant Professor from Ukraine) | 2023- |
| Jun Zhang, MD (Visiting Scientist from China) | 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-interacting 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, Tucson, 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 Philadelphia, 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 Approach 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 School 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 Therapeutics 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, Upstate Medical University, Syracuse, NY
- Oct 19, 2018 “Molecular Therapeutics Targeting Cell Death and Tumor Suppression,” Hematology/Oncology Grand Rounds, Upstate 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 Meeting, 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 Commencement 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, Istanbul, 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, Boehringer 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

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| Oct 4, 2022 | Alterations” Global Cancer Consortium p53-Therapeutics Mini-Symposium “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” 9 th 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 |

Organizing Roles in Scientific Meetings:

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| April, 1998 | Minisymposium Chair “Function of Tumor Suppressor Genes” - AACR 89 th Annual Meeting, New Orleans, LA |
| April, 2000 | Minisymposium Co-Chair “Cell Cycle in Prognosis and Therapy” - AACR 91 st Annual Meeting, San Francisco, CA |
| April, 2000 | Member, Program Committee (Cell Cycle), 91 st Annual Meeting, American Association for Cancer Research, San Francisco, CA |
| March, 2001 | Poster Discussion Chair “Death Receptors” - AACR 92 nd Annual Meeting, New Orleans, LA |
| March, 2001 | Member, Cell Death Committee, 92 nd Annual Meeting of American Association for Cancer Research, New Orleans, LA |
| March, 2001 | Chair, Cell Cycle Committee, 92 nd 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, 1 st 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, 11 th International p53 Workshop, Barcelona, Spain |
| March, 2004 | Program Committee and Minisymposium Co-Chair, 95 th 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, 2 nd International Conference on Tumor Progression and Therapeutic Resistance, Burlington, MA |

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| 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 <i>in vivo</i> 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, 3 rd 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 <i>In Vivo</i> 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, 3 rd 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 "14 th International p53 Workshop," Shanghai, China |
| Apr, 2009 | Organizer, 199 th 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 "15 th 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, 4 th International Conference on Tumor Progression and Therapeutic Resistance (organized 1 st , 2 nd , and 3 rd conferences in 2004-2006) |
| June, 2014 | Member, International Organizing Committee, 16 th 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 |

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| | Conference, Salt Lake City, UT |
| April, 2017 | Organizer and host, 1 st 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 105 th 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 105 th 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) |

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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.**, Kumaraswamy, 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.
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- 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.
- 23- Lu, C.-D., **El-Deiry, W.S.**, Downey, K.M., and So, A.G. Base Selection by E. coli DNA Polymerase I. *Chinese J. of Biochem. and Biophys.* 28:259-268, 1996.
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- 26- Wu, G.S., and **El-Deiry, W.S.** Apoptotic Death of Tumor Cells Correlates with Chemosensitivity, Independent of p53 or Bcl2. *Clin. Cancer Res.*, 2:623-633, 1996.
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- 36- Zeng, Y.-X., Somasundaram, K., Prabhu, N.S., Krishnadasan, R., and **El-Deiry, W.S.** Detection and analysis of living growth inhibited mammalian cells following transfection. *BioTechniques*, 23:88-94, 1997.
- 37- Blagosklonny, M.V., Giannakakou, P., **El-Deiry, W.S.**, Kingston, D., Neckers, L., and Fojo, T. Activation of Raf-1/bcl-2 pathway by microtubule active drugs links microtubule damage to cell death. *Cancer Res.*, 57:130-135, 1997.
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- 39- Blagosklonny, M.V., Wu, G.S., Somasundaram, K., and **El-Deiry, W.S.** Wild-type p53 is not sufficient for serum starvation-induced apoptosis in cancer cells but accelerates apoptosis in sensitive cells. *Int. J. Oncol.*, 11:1165-1170, 1997.
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- 95- **El-Deiry, W.S.** TRAIL Receptor Signaling, p53, and Cancer Therapy. AACR Special Conference in Cancer Research "Apoptosis and Cancer: Basic Mechanisms and Therapeutic Opportunities in the Post-Genomic Era, Waikoloa, HI, 2/02.
- 96- Ricci, M.S., Sun, S-Y., **El-Deiry, W.S.** Myc sensitization to TRAIL-mediated apoptosis may involve upregulation of Death Receptor 4. Late Breaking Session, AACR 93rd Annual Meeting, San Francisco, CA 2002.
- 97- **El-Deiry, W.S.** p53 downstream targets, tissue specificity and chemosensitivity. Late Breaking Session, 11th International p53 Workshop, Barcelona, Spain, 2002.
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- 99- Wang, S. and **El-Deiry, W.S.** Mechanisms of reversal of TRAIL resistance in Bax-null human colon cancer cells. AACR 94th Annual Meeting, Toronto, Canada, 2003.
- 100- Wang, W., Rastinejad, F., and **El-Deiry, W.S.** CP31398-mediated enhancement and bioluminescent imaging of p53 activity following p53 therapeutic gene transfer to human cancer cells subsequently treated with TRAIL. AACR 94th Annual Meeting, Toronto, Canada, 2003.
- 101- Kim, S-H., Ricci, M.S., Kim, K., Nakagawa, H., Herlyn, M., Rustgi, A., and **El-Deiry, W.S.** Induction of apoptosis by His-tagged or native TRAIL in cultured primary human esophageal keratinocytes of hTert, T-antigen, and c-Myc-transformed esophageal cells. AACR 94th Annual Meeting, Toronto, Canada, 2003.
- 102- Ricci, M.S., and **El-Deiry, W.S.** c-Myc sensitizes TRAIL-resistant cells to TRAIL by downregulating cellular FLIP expression. AACR 94th Annual Meeting, Toronto, Canada, 2003.
- 103- Kim, S-H., Nakagawa, H., Ricci, M.S., Rustgi, A., and **El-Deiry, W.S.** Human esophageal tumor cells generated by Myc but not Ras or EGFR overexpression. AACR 94th Annual Meeting, Toronto, Canada, 2003.
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- 108- Jin, Z., and **El-Deiry, W.S.** Deficient TRAIL Death Receptor transport to the cell surface in human colon cancer cells selected for resistance to TRAIL-induced apoptosis. AACR 94th Annual Meeting, Toronto, Canada, 2003.
- 109- Wang, S., and **El-Deiry, W.S.** Silencing of KILLER/DR5 promotes bioluminescent colon tumor xenograft growth and confers resistance to 5-FU. AACR 95th Annual Meeting, Orlando, Florida, 2004.
- 110- Fei, P., Wang, W., and **El-Deiry, W.S.** Bnip3L is induced by p53 under hypoxia and its knockdown promotes tumor growth. AACR 95th Annual Meeting, Orlando, Florida, 2004.
- 111- Dash, B.C., and **El-Deiry, W.S.** Cyclin A- Cdk2 phosphorylates p21 WAF1 and phosphorylated p21 promotes assembly and cyclinB1-Cdc2 kinase activity at G2/M. AACR 95th Annual Meeting, Orlando, Florida, 2004.
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- 113- Navaraj, A., and **El-Deiry, W.S.** Cooperation between p53 and BRCA1 in repair of cyclobutane pyrimidine dimers but not (6-4) photoproducts following UV exposure of human breast cancer cells. AACR 95th Annual Meeting, Orlando, Florida, 2004.
- 114- Kim, S-H., and **El-Deiry, W.S.** Proteasomal degradation of SV40 T-antigen after exposure to DNA damaging agents or c-Myc overexpression: A potential obstacle to efficient human cell transformation. AACR 95th Annual Meeting, Orlando, Florida, 2004.
- 115- Kim, S-H., Nakagawa, H., Rustgi, A., and **El-Deiry, W.S.** In vivo bioluminescence imaging of tumor formation following EGFR, Akt or Ras overexpression in immortalized primary human esophageal epithelial cells. AACR 95th Annual Meeting, Orlando, Florida, 2004.
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- 117- Corn, P.G., Ricci, M.S., Arsham, A.M., Simon, M.C., and **El-Deiry, W.S.** Hypoxia causes downregulation of the c-Myc signaling pathway through proteasomal degradation of c-Myc and the transcriptional upregulation of Mad1 and Mxi1, repressors of c-Myc. AACR 95th Annual Meeting, Orlando, Florida, 2004.
- 118- Dash, B.C., and **El-Deiry, W.S.** Phosphorylated p21 has a positive regulatory effect on cell cycle progression at G2/M. 2004 Meeting on The Cell Cycle, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
- 119- Rozan, L., and **El-Deiry, W.S.** Functional characterization of Traf4, a p53 transcriptional target. AACR 96th Annual Meeting, Anaheim, California, 2005.
- 120- Yang, W-S., and **El-Deiry, W.S.** Caspase-8/-10 associated RING domain proteins (CARP) 1/2 are novel E3 ligases for p53. AACR 96th Annual Meeting, Anaheim, California, 2005.
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123- Scata, K.A., and **El-Deiry, W.S.** BRCA1-mediated repression of p53 proapoptotic targets. AACR 96th Annual Meeting, Anaheim, California, 2005.

124- Wang, S., and **El-Deiry, W.S.** p73 or p53 directly regulate human p53 transcription under cellular stress. AACR 96th Annual Meeting, Anaheim, California, 2005.

125- Dash, B.C., and **El-Deiry, W.S.** p21 Ubiquitination by SCF-Skp2 and APC/C. AACR 96th Annual Meeting, Anaheim, California, 2005.

126- Matthew, E., and **El-Deiry, W.S.** Localization of the p53 target Polo-like kinase 2 to centrosome-like cytoplasmic structures. AACR 96th Annual Meeting, Anaheim, California, 2005.

127- Mochizuki, K., Liu, Y.Y., Wang, S., Kim, C., Gewirtz, D., Alavi, A., and **El-Deiry, W.S.** 3-Dimensional bioluminescent imaging of tumor xenografts. AACR 96th Annual Meeting, Anaheim, California, 2005.

128- Plastaras, J.P., and **El-Deiry, W.S.** Role of insulin-induced Akt activation in TRAIL-induced apoptosis. AACR 96th Annual Meeting, Anaheim, California, 2005.

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., Plataras, 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- Plataras, 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 μ -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 NF κ B 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 \square 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 β . 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 β 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- Natsuzaka, 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 β /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., Krigsfeld, 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., Navaraj¹ 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 α 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 Stem 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., Lamparella, 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 α 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 activity 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., Astsaturon, 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- Astsaturon, 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 rearrangements 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-fluorouracil 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 HIF1 α 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., Nallaganachu, 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 compound 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 radiosensitizer 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., Dicker, 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 synthetic 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 α 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., Ruser, 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 HIF1 α 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., Xiu, 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 HIF1 α 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 studies 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-3 β) 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-1 α 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 glycolysis 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.** GSK3 β inhibition by small molecule 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-molecule 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., Mompoin, 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 cell 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 immunotherapy. 113th Annual AACR meeting, April 8-13, 2022, New Orleans, LA.

434- Zhao, S., and **El-Deiry, W.S.** HIF-1 α 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 synchronization 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 chemotherapeutic 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 lines 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 correlates 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., Nabhan, 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 CDKN1A/p21(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.
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- 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.
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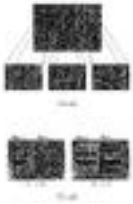
Patents (Google Patent Search July 2023)

[Small molecule trail gene induction by normal and tumor cells as an anticancer ...](#)

WO EP US JP CA DK ES HR HU LT MX PL PT RS SI [US20220288079A1](#) Joshua E. Allen The Penn State Research Foundation
Priority 2011-04-29 • Filed 2022-03-21 • Published 2022-09-15
Methods and compositions relating to TIC10 are described according to aspects of the present invention. The compositions and methods have utility in treating disease, particularly cancer in a

subject in need thereof, including a human subject as well as subjects of other species. The compositions ...

[Small molecule modulators of p53 family signaling](#)



WO US [US20160151403A1](#) Wafik S. El-Deiry The Trustees Of The University Of Pennsylvania
Priority 2006-06-20 • Filed 2014-12-02 • Published 2016-06-02

This invention relates to methods for identifying compound capable of activating p53-responsive transcriptional activity in a p53-deficient tumor cell and the use of these compounds.

[Dual inhibition of CDK and HSP90 destabilize H1F1 \$\alpha\$ and synergistically induces ...](#)

US [US10987356B2](#) Shuai ZHAO Institute For Cancer Research

Priority 2017-02-26 • Filed 2019-11-12 • Granted 2021-04-27 • Published 2021-04-27

The present disclosure provides pharmaceutical compositions including a CDK inhibitor and an HSP90 inhibitor, as well as methods of treating cancer or a tumor in a subject by administering a CDK inhibitor and an HSP90 inhibitor to the subject.

[Acridine activation of p53 and uses thereof](#)

WO WO2008010984A9 Wafik S El-Deiry Univ Pennsylvania

Priority 2006-07-17 • Filed 2007-07-16 • Published 2008-03-06

This invention relates to the stabilization of p53 in cells, thereby inducing either cell cycle arrest or apoptosis or both and the consequence of such stabilization on the treatment of cancer. Specifically, the use of acridine and its derivatives in stabilizing p53 through blockage of its ...

[Methods and compositions relating to treatment of cancer](#)

WO EP US CN JP KR AU CA RU SG [US20150328310A1](#) Joshua E. Allen Joshua E. Allen

Priority 2012-12-20 • Filed 2013-12-20 • Published 2015-11-19

Compositions and methods for treating cancer in a subject in need thereof are provided according to aspects of the present disclosure which include both cetuximab and ISC-4, as a combination formulation or as separate formulations. Methods of treating cancer in a subject in need thereof are ...

[Angiogenesis monitoring using in vivo hyperspectral radiometric imaging](#)

WO US [WO2009005549A2](#) Wafik S. El-Deiry The Trustees Of The University Of Pennsylvania

Priority 2007-03-23 • Filed 2008-03-20 • Published 2009-01-08

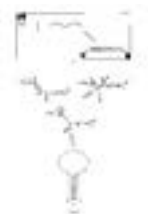
This invention relates to the use of in-vivo hyperspectral imaging to monitor angiogenesis. Specifically, the invention provides systems and methods of obtaining hyperspectral images of a field of view comprising an area sought to be monitored.

[Compound For Anti-Cancer Therapy That Acts By Targeting GOF Mutant P53 And ...](#)

WO EP US AU CA [US20190247391A1](#) Wafik S. El-Deiry The Penn State Research Foundation
Priority 2014-09-29 • Filed 2019-04-29 • Published 2019-08-15

The invention includes compositions comprising NSC59984 or a derivative or analogue thereof and a pharmaceutically acceptable carrier. The invention further includes methods of treating or preventing cancer in a subject, comprising the step of administering to the subject the compositions ...

[Molecular beacons, methods and kits for detecting DNA damage response](#)



US [US20070178485A1](#) Wafik El-Deiry El-Deiry Wafik S
Priority 2005-09-01 • Filed 2006-09-01 • Published 2007-08-02

This invention relates to embodiment to a molecular beacon, methods and kits for the detection of expression of p21(Waf1/Cip1), in response to chemotherapy. Specifically, the introduction of a phosphorothioate-modified p21-beacon by transfection in human tumor cells yields increased signal in a ...

[Frequent egfr and ntrk somatic mutations in colorectal cancer \(crc\) with ...](#)



WO US [US20210054463A1](#) Safoora Deihimi Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2017-02-26 • Filed 2018-02-26 • Published 2021-02-25

The present disclosure provides methods for identifying subjects having a cancer or tumor that may be susceptible to treatment with a therapeutic agent used to EGFR-related cancer an/or NTRK-related cancer.

[Compounds For Repressing Cancer Cell Growth](#)



US [US20190225613A1](#) Wafik S. El-Deiry Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2018-01-24 • Filed 2019-01-23 • Published 2019-07-25

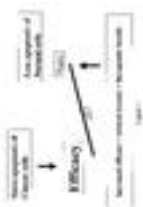
The disclosure generally relates to compounds, compositions, and methods for the treatment of cancer by restoring the P53 pathway signaling to repress cancer cell growth.

[P21WAF1 derivatives and diagnostic methods](#)



WO US [US5807692A](#) Kenneth W. Kinzler The Johns Hopkins University
 Priority 1993-11-10 • Filed 1995-12-18 • Granted 1998-09-15 • Published 1998-09-15
 The striking compartmentalization of p21 WAF1 expression found in normal tissues is completely abrogated in neoplastic tissues. Methods are provided for using p21 WAF1 expression as a tool to assess neoplasia and to discover new drugs. A truncated p21 WAF1 protein is more active than full-length p21 ...

Modulation of cellular apoptosis and methods for treating cancer



US [US20020048566A1](#) Wafik El-Deiry El-Deiry Wafik S.
 Priority 2000-09-14 • Filed 2001-09-13 • Published 2002-04-25
 This invention relates to modulating cellular apoptosis in an animal by regulating the quantity of functional KILLER/DR5 receptor protein molecules in the target cell(s) of said animal, increasing the effectiveness of certain therapies such as chemotherapy and radiotherapy. Such modulation ...

Bioluminescent imaging of trail induced apoptosis

WO [WO2008011008A1](#) Wafik S. El-Deiry The Trustees Of The University Of Pennsylvania
 Priority 2006-07-17 • Filed 2007-07-17 • Published 2008-01-24
 This invention relates to methods and kits to be used in the imaging apoptosis in vivo. Specifically, the invention relates to the use of a proluminescent reagent, capsase substrate, operably linked to aminoluciferin in the imaging of TRAIL-induced apoptosis in nucleated cells.

Compositions and methods for controlling brca1-mediated p53-dependent and - ...

WO AU [AU3547899A](#) Wafik S. El-Deiry Trustees Of The University Of Pennsylvania, The
 Priority 1998-03-31 • Filed 1999-03-31 • Published 1999-10-18

Regulating apoptosis in TRAIL-resistant cancer cells, while protecting normal, ...



US [US20020169123A1](#) Wafik El-Deiry The Trustees Of The University Of Pennsylvania
 Priority 2001-02-27 • Filed 2002-02-27 • Published 2002-11-14

Provided are compositions and methods for controlling, modulating or regulating extrinsically-induced apoptosis in a population of cells, comprising treating the cell population with a synergistically combined composition comprising an amount of TRAIL in conjunction with an amount of at least one ...

HIF-1a MODULATORS AND USES THEREOF



US [US20230183356A1](#) Wafik S. El-Deiry Brown University
Priority 2021-12-14 • Filed 2022-12-13 • Published 2023-06-15

Provided herein are compounds useful in treating diseases. In some embodiments, the disease is associated with regulation of hypoxia-induced factor 1 α (HIF-1 α).

Inhibition of glycogen synthase kinase-3 (gsk-3)

WO [WO2022109057A1](#) Wafik S. El-Deiry Brown University
Priority 2020-11-17 • Filed 2021-11-17 • Published 2022-05-27

The invention provides small-molecule inhibition of GSK-3 to increase efficacy of ICB and improve response in patients with microsatellite stable colorectal cancer, and possibly other tumor types. These results demonstrate 9-ING-41 in combination with α PD-1/PD-L1 therapy.

Mir-3132 upregulation of the trail pathway and apoptotic activity in cancer ...



WO US [US20210254060A1](#) Amriti R. Lulla Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2018-03-13 • Filed 2019-03-11 • Published 2021-08-19

The present disclosure provides compositions comprising miR-3132 and one or more pharmaceutical agents that upregulate TNF-related apoptosis-inducing ligand (TRAIL) or activate TRAIL signaling pathway, and methods for treating a cancer comprising administering miR-3132, or a composition comprising ...

Methods for optimizing the treatment of colorectal cancer

WO [WO2022216725A1](#) Wafik S. El-Deiry Brown University
Priority 2021-04-05 • Filed 2022-04-05 • Published 2022-10-13

The invention provides a method for optimizing the treatment of colorectal cancer in a subject comprising the steps of extracting colorectal cancer cells from the subject, determining the transcriptional response in colorectal cancer cells across four or more clinically used chemotherapeutic drugs ...

Treatment of tumors with mirna targeting cdk4/cdk6

WO US [WO2018157026A1](#) Amriti R. LULLA Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2017-02-26 • Filed 2018-02-26 • Published 2018-08-30

The present disclosure provides miRNA mimics targeting CDK4 and/or CDK6, and compositions comprising the same. Methods for the treatment of tumors, including but not limited to colon cancer, comprising administering a modified oligonucleotide comprising a miRNA are also disclosed herein.

[Prodigosin Analogs And Methods Of Use](#)



US [US20210139465A1](#) Wafik S. El-Deiry Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2016-04-08 • Filed 2020-10-21 • Published 2021-05-13

Prodigosin analogs which reactivate the p53 pathway are provided, as well as compositions of these compounds, and methods for reactivation of the p53 pathway using these compounds are provided. The prodigosin analogs may be used to treat cancer in which p53 mutation plays a role, including ...

[Small molecule cb002-analogues restore the p53 pathway and target s-phase ...](#)

WO [WO2021232012A1](#) Wafik S. El-Deiry Brown University

Priority 2020-05-15 • Filed 2021-05-17 • Published 2021-11-18

The inventors had earlier discovered a class of anticancer xanthine-related drugs that restores p53 activity in tumors with mutated p53 and perturbs an S-phase checkpoint. Based upon the properties of this class of p53- pathway restoring drugs, the inventors developed uses in cancer treatment. The ...

[Urinary tract cancer treatment guided by mutational landscape](#)

WO [WO2023287839A2](#) Wafik S. El-Deiry Brown University

Priority 2021-07-13 • Filed 2022-07-13 • Published 2023-01-19

A method of treating urinary tract cancer in a subject in need thereof is described. The method includes determining if there are loss-of-function mutations in the CDKN1A and RB1 genes in a biological sample from the subject; and treating the subject with a combination of a checkpoint kinase ...

[Compositions and methods for inducing apoptosis in e6-expressing cells](#)

WO AU AU4706199A Wafik S. El-Deiry Trustees Of The University Of Pennsylvania, The

Priority 1998-06-24 • Filed 1999-06-23 • Published 2000-01-10

[Prodigosin analogs](#)

WO US [WO2017177216A1](#) Wafik S. El-Deiry Institute For Cancer Research D/B/A The Research Institute Of Fox Chase Cancer ...

Priority 2016-04-08 • Filed 2017-04-10 • Published 2017-10-12

Prodigiosin analogs which reactivate the p53 pathway are provided, as well as compositions of these compounds, and methods for reactivation of the p53 pathway using these compounds are provided. The prodigiosin analogs may be used to treat cancer in which p53 mutation plays a role, including ...

[Nucleic acid encoding a novel chemotherapy-induced protein, and methods of use](#)

WO AU AU8400398A Wafik S. El-Deiry Trustees Of The University Of Pennsylvania, The
Priority 1997-07-11 • Filed 1998-07-10 • Published 1999-02-08

Ongoing Research Support

R01CA173453-07A1 (PI: El-Deiry) 4/1/2019 – 3/31/2024 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 – 12/31/2022 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

GSK3 β 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 TTFs. 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 TTFs 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.

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.

ACS Fostering Innovation grant (PI: El-Deiry) 01/01/2022-12/31/2026 \$100,000 total costs

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.

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/Eribitux 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 enrollment 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): Folfexiri/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 underlying 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.