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CURRICULUM VITAE
HOWARD SAFRAN, MD

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Clinical Sites: The Rhode Island Hospital
The Miriam Hospital
Newport Hospital

EDUCATION

Undergraduate: 1979-1983 Boston University
B.S. Biology, 6/83
Phi Beta Kappa
Summa cum laude

Medical School: 1983-1987 Boston University
MD, 6/87
AOA

HONORARY DEGREES: Master of Arts Ad Eundum
Brown University 2003

POST GRADUATE AWARDS: Award for outstanding teacher
Hematology Oncology Fellowship
Brown University 2007

POST GRADUATE TRAINING

Internship/Residency 1987-1990 Internal Medicine
The Boston University Medical Center
Boston, Massachusetts

Fellowship: 1990-1993 Hematology/Oncology
The Boston University Medical Center
Boston, Massachusetts

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Certification:	1990 -	Diplomate, American Board of Internal Medicine (ABIM)
	1994 -	Diplomate, Oncology, ABIM
	1995 -	Diplomate, Hematology, ABIM
	2000	Recertified, Internal Medicine
	2004	Recertified Hematology and Oncology
	2013	Recertified Oncology
	2013	Recertified Hematology
Licensure:	1990 -	Commonwealth of Massachusetts
	1993 -	State of Rhode Island

HOSPITAL APPOINTMENTS

1993 -	The Miriam Hospital Department of Medicine Division of Hematology/Oncology
1995 -	Co-Chairman Gastrointestinal Oncology Brown University Oncology Group
1997-	The Rhode Island Hospital Department of Medicine
2001 -	Rhode Island Hospital Clinical Director GI Cancer
2008-	Director Brown University Oncology Group
2009-	Director, Lifespan Oncology Cancer Research
2015	Interim Director Division of Hematology/Oncology
2017	Division Director Division of Hematology/Oncology

ACADEMIC APPOINTMENT

1993 - Assistant Professor of Medicine
Brown University

2002 Associate Professor of Medicine
Brown University

2012 Professor of Medicine
Brown University

JOURNAL REVIEWER

1997 - Cancer

1998 - Journal of Clinical Oncology

1999 - European Journal of Cancer

2007 - New England Journal of Medicine

2009 - Lancet

EDITORIAL BOARDS

2005- Up-To-Date Online: GI Oncology

NATIONAL COMMITTEES / APPOINTMENTS:

1997 - Radiation Therapy Oncology Group (RTOG)
(An NCI supported National Oncology
Cooperative Group)
Gastrointestinal Oncology Committee

1998- National Cancer Institute
Ad Hoc Member, Study Section

2000- Radiation Therapy Oncology Group
Medical Oncology Liaison to Translation
Research Program

2005- 2013	RTOG Chairman Medical Oncology Gastrointestinal Committee
2013-2016	NRG Vice -Chair Gastrointestinal Oncology
2006-	CTEP (NCI) Gastrointestinal Oncology Steering Committee, alternate member
2006-2016	CTEP: Esophagogastric Cancer Task Force
2006 - 2016	CTEP: Pancreatic Cancer Task Force
2014	NIH: Reviewer for Cancer Clinical Investigator Team Leadership Award (CCITLA) (Grant for investigator at NCI comprehensive cancer center 3-10 years post fellowship.)

International Roles:

2010	Key U.S. role facilitating the European Organization for Research and Treatment of Cancer (EORTC) joining the U.S.Adjuvant RTOG pancreatic cancer trial RTOG 0848. Currently on monthly conference calls with the NCI, EORTC and RTOG.
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Phase II Cooperative Group Trials

1998 -	Radiation Therapy Oncology Group: Medical Oncology Principle Investigator RTOG 9812: “A Phase II Trial of External Irradiation and Weekly Paclitaxel for Non-Metastatic Unresectable Pancreatic Cancer.”
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- 2000- Radiation Therapy Oncology Group
 Medical Oncology Principle Investigator for
 RTOG 0020, "Phase II Study of Paclitaxel,
 Gemcitabine and Radiation Followed by the
 Farnesyl Transferase Inhibitor R115777 for
 Locally Advanced Pancreatic Cancer."
- 2010 Radiation Therapy Oncology Group, Medical
 Oncology Principal Investigator, RTOG-
 1102: "A Phase I Study of Induction AMG
 479 and Gemcitabine, Followed by AMG
 479, Capecitabine, and 3D-Conformal
 Radiation Therapy (3D-CRT) with
 Subsequent Maintenance Therapy for
 Locally Advanced Pancreatic Cancer"

Phase III Cooperative Group Trials

- 2001 Medical Oncology Chair: RTOG 9704. "A
 Phase III Study of Pre and Post
 Chemoradiation 5-FU Vs. Pre and Post
 Chemoradiation Gemcitabine for
 Postoperative Adjuvant Treatment of
 Resected Pancreatic Adenocarcinoma"
- 2007 RTOG: Developed RTOG 0436
 Phase III esophageal cancer: "A Phase III
 Trial Evaluating the Addition of Cetuximab
 to Paclitaxel, Cisplatin, and Radiation for
 Patients With Esophageal Cancer Who Are
 Treated Without Surgery"
- 2008 Medical Oncology Chair: Phase III Adjuvant
 pancreatic cancer trial RTOG 0848 "A Phase
 III Trial Evaluating both Erlotinib And
 Chemoradiation as Adjuvant Treatment for
 Patients with Resected Head of Pancreas
 Adenocarcinoma"
- 2010 Principal Investigator: Phase III esophageal
 cancer trial: RTOG 1010: A Phase III Trial
 Evaluating the Addition of Trastuzumab to

Trimodality Treatment of Her2 Expressing
Esophageal Adenocarcinoma

2016 Medical Oncology Principle Investigator:
NRG GI1525: A Phase III Trial Evaluating
ADXS11-001 with Mitomycin, 5-
Fluorouracil (5-FU) and IMRT for Locally
Advanced Anal Cancer

HOSPITAL COMMITTEES

2005 - 2016 Leader of GI tumor board.

MEMBERSHIP IN SOCIETIES

1994 - American Society of Clinical Oncology
1996 - American Association of Cancer Research
2010 Society of Neuro-Oncology

PEER REVIEWED PUBLICATIONS

1. McCaffrey R, Torres E, Cronin K, **Safran H**, Dhawan R. Dideoxynucleosides as specific antileukemic agents in lymphoblastic diseases. *Leukemia* 6:suppl 3:181-183, 1991.
2. Choy H, Akerley W, **Safran H**, Clark J, Rege V, Papa A, Glantz M, Puthawala Y, Soderberg C, Leone L. A phase I trial of concurrent weekly taxol administered as a 3 hour infusion and radiation therapy for advanced non-small cell lung cancer. *J Clin Oncol* 12:2682-2686, 1994.
3. Mark HFL, Sikov W, **Safran H**, King T, Griffith R: Fluorescent in situ hybridization (FISH) for assessing the proportion of cells with trisomy 4 in a patient with acute non-lymphoblastic leukemia,. *Ann Clin I* 25:330-335, 1995.
4. King T, **Safran H**. Monoclonal B-cell population mimicking lymphoma in a patient with multiple sclerosis. *Arch path Lab Med* 120:275-278, 1996.

5. **Safran H**, King T, Choy H, Gollerkeri A, Kwakwa H, Lopez F, Myers J, Tarpey J, Moulton A, Rosmarin A: p53 mutations do not predict response to paclitaxel/radiation for non-small cell lung cancer. *Cancer* 78:1209-1216, 1996.
6. Choy H, Akerley W, Glantz M, **Safran H**, Graziano S, Chung C. Concurrent paclitaxel and radiation therapy for solid tumors. *Cancer Control* 3:310-318, 1996.
7. **Safran H**, King T, Choy H, Hesketh P, Wolf B, Altenhein E, Sikov W, Rosmarin A, Akerley W, Radie-Keane K, Cicchetti G, Lopez F, Bland K, Wanebo H. Paclitaxel and Concurrent Radiation for Locally Advanced Pancreatic and Gastric Cancer: A Phase I Study. *J Clin Oncol* 15:901-907, 1997.
8. Sikov W, **Safran H**. Paclitaxel as a radiation sensitizer for locally advanced pancreatic and gastric cancer: The Brown University Oncology Group experience. *Front Bioscience* 2:21-27, 1997.
9. Choy H, **Safran H**, Akerley W, Graziano SL, Bogart JA, Cole B. Phase II trial of weekly paclitaxel and concurrent radiation therapy for locally advanced non-small cell lung cancer. *Clin Cancer Res* 4:1931-1936, 1998.
10. Choy H, Akerley W, **Safran H**, Graziano S, Chung C, Williams T, Cole B, Kennedy T. Multi-institutional phase II trial of paclitaxel, carboplatin and concurrent radiation therapy for locally advanced non-small cell lung cancer. *J Clin Oncol* 16:3316-3332, 1998.
11. Dupuy DE, Zagoria RJ, Akerley W, Mayo-Smith WW, Kavanagh PV, **Safran H**. Percutaneous radiofrequency ablation of malignancies in the lung. *Am J Roentgenol* 174:57-9, 2000.
12. **Safran H**, Wanebo HJ, Hesketh PK, Akerman P, Iannitti D, Cioffi W, Dipetrillo T, Wolf B, Koness J, McAnaw R, Moore T, Chen M, Radie-Keane K. Paclitaxel and concurrent radiation for gastric cancer. *Int J Radiat Oncol Biol Phys* 46:889-894, 2000.
13. King T, Akerley W, Fan A, Walsh K, Mangray S, Chen MH, **Safran H**. p53 mutations do not predict response to paclitaxel in metastatic non-small cell lung cancer. *Cancer* 89:769-773, 2000.
14. **Safran H**, Gaissert H, Akerman P, Hesketh P, Chen MH, Moore T, Koness J, Graziano S, Wanebo H. Paclitaxel, cisplatin and concurrent radiation for esophageal cancer. *Cancer Invest* 1:1-7, 2001.
15. **Safran H**, Moore T, Iannitti D, DiPetrillo T, Akerman P, Cioffi W, Harrington D, Quirk D, Ramesh R, Cruff D, Vakharia J, Vora S, Savarese D, Wanebo H. Paclitaxel and concurrent radiation for locally advanced pancreatic cancer. *Int J Radiat Oncol Biol Phys* 49:1275-9, 2001.

16. Koutkia P, **Safran H**, Kahn C. Metastatic carcinoma mimicking primary thyroid cancer. *Med Health RI* 84:204-6, 2001.
17. **Safran H**, Rathore R. Paclitaxel as a radiation sensitizer for locally advanced pancreatic cancer. *Crit Rev Oncology/Hematology* In Press 2001.
18. **Safran H**, King TC, Steinhoff MM, Rathore R, Mangray S, Chai L, Berezein K, Moore T, Iannitti D, Pasquariello T, Akerman P, Quirk D, Goldstein L, Reiss P, Mass R and Tantravahi U. Overexpression of the HER-2/*neu* Oncogene in Pancreatic Adenocarcinoma. *Am J Clin Oncol* 24:496-499, 2001.
19. Ajani J, Ettinger D, Kelsen DP, Hudis C, Kudelka A, Langer C, Pienta K, **Safran H**, Vokes E, Yung WK. Medical Oncology Committee. *Int J Radiat Oncol Biol Phys* 51(3 Suppl2):88-91, 2001
20. Okunieff P, Hammond E, Grignon D, Langer C, Pajak TF, Aug K, Bruner DW, Travis E, Greven K, Guha A, Moulder J, Pollack A, Scarantino C, Sniege N, Watson J, Amin M, Boundy M, Chakravarti A, Chapman JD, Dicker A, Harris J, Koch W, Komake R, Lnage C, McBride W, Mitchell J, Milas L, Movsas B, Pandy K, Peinta K, Regine W, Ritter M, Rubin P, **Safran H**, Sauter E, Schell M, Stevens C, Trotti A, Vikram B. Translational Research Program. *Int J Radiat Oncol Biol Phys* 51:3 Suppl 2):75-87, 2001
21. Palumbo KS, Wands JR, **Safran H**, King T, Carlson RI, De La Monte SM. Human Aspartyl (Asparaginyl) beta-Hydroxylase monoclonal antibodies: Potential biomarkers for pancreatic carcinoma. *Pancreas* 25:39-44, 2002
22. Ramdin N, **Safran H**. Evaluation and treatment of hepatic metastases from unknown GI primary. *Med Health RI* 85:181-3, 2002.
23. **Safran H**, DiPetrillo T, Iannitti D, Quirk D, Akerman P, Cruff D, Cioffi W, Greenspan N, Shah S, Vakharia J, Ramdin N, Moore T, and Rich T. Gemcitabine, paclitaxel and radiation for locally advanced pancreatic cancer: A phase I trial. *Int J Rad Onc Biol Phys.* 54:137-141, 2002.
24. **Safran H**, Ramanathan RK, Schwartz JD, Nadeem A, Tantravahi U, Steinhoff M. The emerging role of trastuzumab in gastrointestinal malignancies. *HER2 in Oncology* 3:1-4, 2002.
25. Willett CG, **Safran H**, Abrams RA, Regine WF, Rich TA, Clinical Research in Pancreatic Cancer: The Radiation Therapy Oncology Group (RTOG) Trials, *Int J Radiat Oncol Biol Phys* 2003;56 (4 suppl):31-7.

26. Zhou P, Fernandes N, Dodge II, Reddi AL, Rao N, **Safran H**, DiPetrillo TA, Wazer DE, Band V, Band H. Erb2 degradation mediated by the co-chaperone protein CHIP. *J Biol Chem* 2003 18:278 (16)138299-37.
27. Tsai JY, **Safran H**: Status of treatment for advanced gastric carcinoma. *Curr Oncol Rep* 2003 5(3):210-8.
28. Tsai JY, Iannitti DA, **Safran H**. Combined modality therapy for pancreatic cancer. *Semin Oncol* 2003 4 Suppl 71-9
29. Constantou M, Tsai JY, **Safran H**. Paclitaxel and concurrent radiation in upper gastrointestinal cancers. *Cancer Invers* 21 (6):887-96. 2003
30. Rich T, Harris J, Abrams R, Erickson B, Doherty M, Paradelo J, Small J, **Safran H**, Wanebo HJ. Phase II Study of External Irradiation and Weekly paclitaxel for nonmetastatic, unresectable pancreatic cancer. *Am J Clin Oncol* 27:51-6, 2004
31. Van Cutsem E, Van De Velde H, Karasek P, Oettle H, Vervenne WL, Szawlowski A, Schoffski A, Post S, Verslype C, Neumann H, **Safran H**, Humblet Y, Perez RJ, Ma Y, Von Hoff D. Phase III trial of gemcitabine plus tipifarnib compared with gemcitabine in advanced pancreatic cancer *J Clin Oncol* 22:1430-1438, 2004
32. Tsai JY, Nadeem A, **Safran H**. Chemotherapy for pancreatic cancer. *Med Health RI* 87:132-134, 2004.
33. Heymach JV, Johnson DH, Fadlo RK, **Safran H**, Schlabach LL, Yunus F, DeVore RF, De Porre PM, Richards HM, Jia X, Zhang S, Johnson BE: Phase II Study of the Farnesyl Transferase Inhibitor R115777 in Patients with Sensitive Relapse Small Cell Lung Cancer *Ann Oncol* 15 (8):1187-1193, 2004
34. **Safran H**, DiPetrillo T, Nadeem A, Steinhoff M, Tantravahi U, Rathore R, Wanebo H, Hughes M, Maia C, Tsai J, Pasquariello T, Pepperell JR, Cioffi W, Kennedy T, Reeder L, Thomas NG, Alyn Adrian, Goldstein L, Chak B, Choy H. Trastuzumab, paclitaxel, cisplatin and radiation for adenocarcinoma of the esophagus: A phase I study. *Cancer Investigation* 22:670-677, 2004.
35. **Safran H**, Iannitti D, Ramanathan R, Schwartz JD, Steinhoff M, Naumann C, Hesketh P, Rathore R, Wolff R, Tantravahi U, Hughes M, Maia C, Pasquariello T, King T, Tsai Y, Kennedy T. Herceptin and gemcitabine for metastatic pancreatic cancers that overexpress HER-2/neu. *Cancer Investigation* 22:706-712, 2004
36. Ramanathan RK, Hwang JJ, Zamboni WE, Sinicrope FA, **Safran H**, Wong MK, Earle M, Brufsky A, Evans T, Troetschel M, Walko C, Day R, chen HX, Finkelstein S. Low overexpression of HER-2/neu in advanced colorectal cancer

- limits the usefulness of trastuzumab (Herceptin) and irinotecan as therapy. A phase II trial. *Cancer Invest* 22:858-865, 2004.
37. Tsai JY, Iannitti D, Berkenblit A, Akerman P, Nadeem A, Rathore R, Harrington D, Roye D, Miner T, Barnett M, Maia C, Hughes M, Stuart K, Kennedy T and **Safran H**. Phase I Study of Docetaxel, Capecitabine and Carboplatin in Metastatic Esophagogastric Cancer. *Am J Clin Oncol* 28:329-333, 2005
 38. Iannitti D, Dipetrillo T, Akerman P, Barnett JM, Maia-Acuna C, Cruff D, Miner T, Martel D, Cioffi W, Remis M, Kennedy T, **Safran H**. Erlotinib and chemoradiation followed by maintenance erlotinib for locally advanced pancreatic cancer: A phase I study. *Am J Clin Oncol* 28:570-575, 2005
 39. Ajani JA, **Safran H**, Bokemeyer C, Shah MA, Lenz HF, Cuttsen E, Burris HA, Lebwohl D, Mullaney B, A multicentere phase II study of BMS-247550 (ixabepilone) by two schedules in patients with metastatic gastric adenocarcinoma previously treated with a taxane. *Invest New Drugs*. 24:441-446, 2006
 40. Ng T, Dipetrillo T, Purviance J, **Safran H**. Multimodality treatment of esophageal cancer : a review of the current status and future directions. *Curr Oncol Rep* 3:174-82, 2006.
 41. Akerley W, **Safran H**, Zaner K, Ready N, Mega T, Kennedy T. Phase II trial of weekly paclitaxel and gemcitabine for previously untreated, stage IIIB-IV nonsmall cell lung cancer. *Cancer* 107:1050-1054, 2006
 42. Dipetrillo T, Milas L, Evans D, Akerman P, Ng T, Miner T, Cruff D, Chauhan B, Iannitti D, Harrington D, **Safran H**. Paclitaxel poliglumex (PPX-Yyotax) and concurrent radiation for esophageal and gastric cancer: a phase I study. *Am J Clin Oncol* 29:376-9, 2006.
 43. **Safran H**, DiPetrillo T, Akerman P, Ng T, Evans D, Steinhoff M, Benton D, Purviance J, Goldstein L, Tantravahi U, Kennedy T. Phase I/II study of trastuzumab, paclitaxel, cisplatin and radiation for locally advanced, HER2 overexpressing esophageal adenocarcinoma. *Int J Rad Oncol Biol Phys* 67: 405-9. 2007
 44. Berz D, Miner T, McCormack E, **Safran H**. HER family inhibitors in pancreatic cancerL current status and future directions. *Expert Opin Ther Targets*. 11:337-7, 2007.
 45. Simon CJ, Dupuy DE, DiPetrillo TA, **Safran HP**, Grieco CA, Ng T, Mayo Smith WW. Pulmonary radiofrequency ablation: long term safety and efficacy in 153 patients. *Radiology* 243:268-75, 2007

46. Evans D, Miner T, Iannitti D, Akerman P, Cruff D, Maia-Acuna C, Harrington D, Habr F, Chauhan B, Berkenblit A, Stuart K, Sears D, Kennedy T, **Safran H**. Docetaxel, capecitabine and carboplatin in metastatic esophagogastric cancer: a phase II study. *Cancer Invest* 25: 445-8, 2007.
47. Evans D, Miner T, Akerman P, Millis R, Jean M, Kennedy T, **Safran H**. A phase I study of doxorubicin, oxaliplatin and capecitabine in patients with metastatic gastroesophageal cancer. *Am J Clin Oncol* 30:346-9, 2007.
48. **Safran H**, Suntharalingham M, DiPetrillo T, Ng T, Doyle LA, Krasna M, Plette A, Evans D, Wanebo H, Akerman P, Spector J, Kennedy N, Kennedy T. Cetuximab with concurrent chemoradiation for esophagogastric cancer: Assessment of toxicity *Int J Rad Oncol Biol Phys* 70:391-5, 2008
49. Regine WF, Winter KA, Abrams RA, **Safran H**, Hoffman JP, Konski A, Benson AB, MacDonald JS, Kudrimoti MR, Fromm ML, Haddock MG, Schaefer P, Willett CG, Rich TA. Fluorouracil vs gemcitabine chemotherapy before and after fluorouracil-based chemoradiation following resection of pancreatic adenocarcinoma: a randomized controlled trial. *JAMA* 299: 1019-26, 2008
50. **Safran H**, Miner T, Resnick M, et al. Lapatinib/gemcitabine and lapatinib/gemcitabine/oxaliplatin : A phase I study for Advanced pancreaticobiliary cancer. *Am J Clin Oncol* 31:140-4, 2008
51. Berger AC, Garcia M Jr, Hoffman JP, Regine WF, Abrams RA, **Safran H**, Konski A, Benson AB 3rd, MacDonald J, Willett CG. Postresection CA 19-9 predicts overall survival in patients with pancreatic cancer treated with adjuvant chemoradiation: a prospective validation by RTOG 9704. *J Clin Oncol*. 2008 Dec 20;26(36):5918-22. Epub 2008 Nov 24.
52. Zhu AX, Ready N, Clark JW, **Safran H**, Amato A, Salem N, Pace S, He X, Zvereva N, Lynch TJ, Ryan DP, Supko JG. Phase I and pharmacokinetic study of gimatecan given orally once a week for 3 of 4 weeks in patients with advanced solid tumors. *Clin Cancer Res*. 2009 Jan 1;15(1):374-81.
53. Crane CH, Winter K, Regine WF, **Safran H**, Rich TA, Curran W, Wolff RA, Willett CG. Phase II study of bevacizumab with concurrent capecitabine and radiation followed by maintenance gemcitabine and bevacizumab for locally advanced pancreatic cancer: Radiation Therapy Oncology Group RTOG 0411. *J Clin Oncol*. 2009 Sep 1;27(25):4096-102. Epub 2009 Jul 27.
54. Rathore R, **Safran H**, Soares G, Dubel G, McNulty B, Ahn S, Iannitti D, Kennedy T. Phase I Study of Hepatic Arterial Infusion of Oxaliplatin in Advanced Hepatocellular Cancer: A Brown University Oncology Group Study.

- Rathore R, Safran H, Soares G, Dubel G, McNulty B, Ahn S, Iannitti D, Kennedy T. *Am J Clin Oncol*. 2010 Feb;33(1):43-6.
55. Birnbaum A, Dipetrillo T, Rathore R, Anderson E, Wanebo H, Puthwala Y, Joyce D, **Safran H**, Henderson D, Kennedy T, Ready N, Sio TT. Cetuximab, Paclitaxel, Carboplatin, and Radiation For Head and Neck Cancer: A Toxicity Analysis. *Am J Clin Oncol*. *Am J Clin Oncol*. 2010 Apr;33(2):144-7.
 56. Ng T, Birnbaum AE, Fontaine JP, Berz D, **Safran HP**, Dipetrillo TA. Pneumonectomy After Neoadjuvant Chemotherapy and Radiation for Advanced-Stage Lung Cancer. *Ann Surg Oncol*. 2010 Feb;17(2):476-82.
 57. Dupuy ED, Liu D, Hartfeil D, Hanna L Blume JD, Ahrar K, Lopez R, **Safran H**, Dipetrillo T, Percutaneous radiofrequency ablation of painful osseous metastases: A multicenter American College of Radiology Imaging Network Trial. *Cancer* 2010;116 (4): 989-97,
 58. Showalter TN, Winter KA, Berger AC, Regine WF, Abrams RA, **Safran H**, Hoffman JP, Benson AB, Macdonald JS, Willett CG. The influence of total nodes examined, number of positive nodes, and lymph node ration on survival after surgical resection and adjuvant chemoradiation for pancreatic cancer: A secondary analysis of RTOG 9704. *Int J Radiat Oncol Biol Phys*. 2010 Oct 7. [Epub ahead of print]
 59. Dipetrillo T, Pricolo V, Lagares-Garcia J, Vrees M, Klipfel A, Sikov W, McNulty B, Shipley J, Anderson E, Khurshid H, O'Connor B, Oldenburg NB, Radie-Keane K, Hussain S, **Safran H**. Neoadjuvant bevacizumab, oxaliplatin, 5-fluorouracil and radiation for rectal Cancer. *Int J Radiat Oncol Biol Phys* 1010 Oct 13. (Epub ahead of print)
 60. Abrams RA, Winter KA, Regine WF, **Safran H**, Hoffman JP, Lustig R, Konski AA, Benson AB, Macdonald JS, Rich TA, Willett CG. Failure to adhere to protocol specified radiation therapy guidelines was associated with decreased survival in RTOG 9704 – A phase III trial of adjuvant chemotherapy and chemoradiation for patients with resected adenocarcinoma of the pancreas. *Int J Radiat Oncol Biol Phys* 2011 Jan 28. (Epub ahead of print)
 61. Dipetrillo T, Suntharalingam M, Ng T, Fontaine J, Horiba M, Oldenburg N, Perez K, Birnbaum A, Battafarano R, Burrows W, **Safran H**. Neoadjuvant paclitaxel, poliglumex, cisplatin, and radiation for esophageal cancer: A phase 2 trial. *Am J Clin Oncol* 2011 Feb 3 (Epub ahead of print)
 62. Regine WF, Winter KA, Abrams R, **Safran H**, Hoffman JP, Konski A, Benson AB, Macdonald JS, Rich TA, Willett CG. Fluorouracil-based chemoradiation with either gemcitabine or fluorouacil chemotherapy after resection of pancreatic

- adenocarcinoma 5-year analysis of the U.S. Intergroup/RTOG 9704 phase III trial. *Ann Surg Oncol* 2011; May 18 (5) 1319-29.
63. Crane CH, Varadhachary GR, Yordy JS, Staerke GA, Javie MM, **Safran H**, Haque W, Hobbs BD, Krishnan S, Fleming JB, Das P, Lee JE, Abbruzzese JL, Wolff RA. Phase III trial of cetuximab, gemcitabine and oxaliplatin followed by chemoradiation with cetuximab for locally advanced (T4) pancreatic adenocarcinoma: Correlation of Smad4(Dpc4) immunostaining with pattern of disease progression. *J Clin Oncol* 2011, Jun 27 (Epub ahead of print)
 64. Showalter TN, Winter KA, Berger AC, Regine WF, Abrams RA, **Safran H**, Hoffman JP, Benson AB, MacDonald JS, Willett CG. The influence of total nodes examined, number of positive nodes, and lymph node ratio on survival after surgical resection and adjuvant chemoradiation for pancreatic cancer: a secondary analysis of RTOG 9704. *Int J Radiat Oncol Biol Phys.* 2011 Dec 1;81(5):1328-35. Epub 2010 Oct 8.
 65. Dipetrillo T, Pricolo V, Lagares-Garcia J, Vrees M, Klipfel A, Cataldo T, Sikov W, McNulty B, Shipley J, Anderson E, Khurshid H, Oconnor B, Oldenburg NB, Radie-Keane K, Husain S, **Safran H**. Neoadjuvant bevacizumab, oxaliplatin, 5-fluorouracil, and radiation for rectal cancer. *Int J Radiat Oncol Biol Phys.* 2012 Jan 1;82(1):124-9. Epub 2010 Oct 13.
 66. Dipetrillo T, Suntharalingam M, Ng T, Fontaine J, Horiba N, Oldenburg N, Perez K, Birnbaum A, Battafarano R, Burrows W, **Safran H**, Abrams RA, Winter KA, Regine WF, **Safran H**, Hoffman JP, Lustig R, Konski AA, Benson AB, Macdonald JS, Rich TA, Willett CG. Failure to adhere to protocol specified radiation therapy guidelines was associated with decreased survival in RTOG 9704--a phase III trial of adjuvant chemotherapy and chemoradiotherapy for patients with resected adenocarcinoma of the pancreas. *Int J Radiat Oncol Biol Phys.* 2012 Feb 1;82(2):809-16. Epub 2011 Feb 1.
 67. Dipetrillo T, Suntharalingam M, Ng T, Fontaine J, Horiba N, Oldenburg N, Perez K, Birnbaum A, Battafarano R, Burrows W, **Safran H**. Neoadjuvant paclitaxel, cisplatin, and radiation for esophageal cancer: a phase 2 trial. *Am J Clin Oncol.* 2012 Feb;35(1):64-7.
 68. Regine WF, Winter KA, Abrams R, **Safran H**, Hoffman JP, Konski A, Benson AB, Macdonald JS, Rich TA, Willett CG. Fluorouracil-based chemoradiation with either gemcitabine or fluorouracil chemotherapy after resection of pancreatic adenocarcinoma: 5-year analysis of the U.S. Intergroup/RTOG 9704 phase III trial. *Ann Surg Oncol.* 2011 May;18(5):1319-26. Epub 2011 Mar 10.
 69. Crane CH, Varadhachary GR, Yordy JS, Staerke GA, Javle MM, **Safran H**, Haque W, Hobbs BD, Krishnan S, Fleming JB, Das P, Lee JE, Abbruzzese JL, Wolff RA. Phase II trial of cetuximab, gemcitabine, and oxaliplatin followed by

- chemoradiation with cetuximab for locally advanced (T4) pancreatic adenocarcinoma: correlation of Smad4(Dpc4) immunostaining with pattern of disease progression. *J Clin Oncol*. 2011 Aug 1;29(22):3037-43. Epub 2011 Jun 27.
70. Ahmed S, Birnbaum AE, **Safran HP**, Dipetrillo TA, Aswad BI, Ready NE, Ng T.J Pathologic response after neoadjuvant carboplatin and weekly paclitaxel for early-stage lung cancer: a Brown University oncology group phase II study. *Thorac Oncol*. 2011 Aug;6(8):1432-4.
 71. Shimoda M, Tomimaru Y, Charpentier KP, **Safran H**, Carlson RI, Wands J. J Tumor progression-related transmembrane protein aspartate- β -hydroxylase is a target for immunotherapy of hepatocellular carcinoma. *Hepatology*. 2012 May;56(5):1129-35. doi: 10.1016/j.jhep.2011.12.016. Epub 2012 Jan 13.
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INVITED PUBLICATIONS

1. Choy H, **Safran H**. Preliminary analysis of a phase I study of weekly paclitaxel and concurrent radiation therapy for locally advanced non-small cell lung cancer. *Semin Oncol* 22:4 suppl 55-58, 1995.
2. Choy H, **Safran H**. Preliminary analysis of a phase I study of weekly paclitaxel and concurrent radiation therapy for locally advanced non-small cell lung cancer. *Semin Oncol* 22:4 suppl 55-58, 1996.

3. Choy H., Akerley W, **Safran H**, Graziano S, Chung C. Paclitaxel, carboplatin and concurrent radiation for patients with locally advanced non-small cell lung cancer. *Semin Rad Oncol* 7:1, 15-18, 1997.
4. Choy H, King TC, **Safran H**. Paclitaxel and concurrent radiation for lung, pancreatic and gastric carcinomas: significance of p53 gene mutations for treatment response. *Semin Rad Oncol* 7:2, 7-81, 1997.
5. **Safran H**, Wanebo H. Phase I/II study of neoadjuvant paclitaxel and concurrent radiation for locally advanced gastric cancer. Book Chapter. 2nd International Gastric Cancer Congress. Moduzzi Editore, Bologna, Italy, 1977.
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9. Choy H, **Safran H**. Paclitaxel and radiation for locally advanced non-small cell lung cancer. In *Taxanes and Radiation Therapy in Solid Tumors*. Marcel Dekker Inc. New York, New York, 1998. Edited by Johnson D, Klastersky J.
10. **Safran H**, Cioffi W, Iannitti D, Akerman P. Paclitaxel and concurrent radiation for locally advanced pancreatic cancer. *Front Bioscience* 3:e204-206, 1998.
11. Butera J, Malachovsky M, Rathore R, **Safran H**. Novel approaches in development for the treatment of pancreatic cancer. *Front Bioscience* 3:e226-229, 1998.
12. **Safran H**, Akerman P, Cioffi W, Gaissert H, Joseph P, King T, Wanebo H. Paclitaxel and concurrent radiation for locally advanced adenocarcinomas of the pancreas, stomach and GE junction. *Semin Radiat Oncol* 9:53-57, 1999.
13. King TC, Estalilla OC, **Safran H**. Role of p53 and p16 gene alterations in determining response to paclitaxel and radiation in solid tumors. *Semin Radiat Oncol* 9(2 suppl 1):4-11, 1999.
14. **Safran H**, Rathore R. Paclitaxel as a radiation sensitizer for locally advanced pancreatic cancer. *Crit Rev Oncol Hematol* 43:57-62, 2002.

SELECTED NATIONAL & INTERNATIONAL PRESENTATIONS

1. American Society of Clinical Oncology. "Phase I study of paclitaxel and concurrent radiation for locally advanced gastric and pancreatic cancer". Philadelphia, May, 1995.
2. American Society of Clinical Oncology. "Phase I study of paclitaxel and concurrent radiation for locally advanced gastric and pancreatic cancer". Philadelphia, May, 1996.
3. Third International Conference on Gastrointestinal Malignancies, "A phase I study of paclitaxel and concurrent radiation for locally advanced pancreatic and gastric cancer". Bordeaux, France, September, 1996.
4. 2nd International Gastric Cancer Congress. "Phase I/II study of neoadjuvant paclitaxel and concurrent radiation for locally advanced gastric cancer". Munich, German, April, 1997.
5. Gastrointestinal Oncology Grand Rounds, Memorial Sloan Kettering Cancer Center. "Paclitaxel and radiation for pancreatic and gastric cancer". New York, February, 1997.
6. Radiation Therapy Oncology Group. "Paclitaxel and Radiation for Pancreatic Cancer". Houston, February, 1997.
7. Gastrointestinal Grand Rounds, M.D. Anderson Cancer Center. "Paclitaxel and Radiation for Pancreatic Cancer". Houston, February 1997.
8. Radiation Therapy Oncology Group. "Noncytotoxic approaches in GI cancers". Washington, July, 1998.
9. Radiation Therapy Oncology Group. "Farnesyl transferase inhibitors as potential agents in pancreatic cancer". Atlanta, January, 1999.
10. American Society of Clinical Oncology. "Paclitaxel and Concurrent Radiation for Locally Advanced Gastric Cancer. Atlanta, May, 1999.
11. 6th International Conference on Gastrointestinal Malignancies. "Paclitaxel and concurrent radiation for pancreatic cancer." Williamsburg Virginia. October 20-22, 1999

12. 6th International Conference on Gastrointestinal Malignancies. "HER-2/neu gene overexpression as a therapeutic target in pancreatic cancer. Williamsburg Virginia. October 20-22, 1999
13. 10th International Congress on Anticancer Treatment. "Paclitaxel and concurrent radiation for locally advanced pancreatic cancer. Paris, January 31-February 3, 2000.
14. Translational Research Program, RTOG. "HER-2/neu Gene Overexpression as a Therapeutic Target in Pancreatic Cancer." Tampa, February 6-8, 2001.
15. Herceptin and gemcitabine for metastatic pancreatic cancers that overexpress HER-2/neu. Am Society Clinical Oncology, San Francisco, May 12-14, 2001
16. Eighth International Conference on Gastrointestinal Malignancies. "Neoadjuvant Herceptin, paclitaxel and cisplatin and radiation for adenocarcinoma of the Esophagus." Washington, October 4-6, 2001.
17. ECCO: "A phase II trial of Herceptin and Gemcitabine for Metastatic Pancreatic Cancers That Overexpress HER-2/neu." Lisbon October 22-26, 2001.
18. ECCO: "Neoadjuvant Herceptin, paclitaxel and cisplatin and radiation for adenocarcinoma of the Esophagus." Lisbon October 22-26, 2001.
19. ASCO January 2001, oral presentation. Herceptin and gemcitabine for metastatic pancreatic cancers that overexpress HER2.
20. ASCO June 2002, oral presentation. Neoadjuvant herceptin, paclitaxel, cisplatin and radiation for adenocarcinoma of the esophagus.
20. American College of Surgeons: Dallas April 2004. Multimodality treatment of rectal cancer.
21. Emory University: Cancer Group rounds: 2006 Management of esophageal cancer
22. University of Maryland: Cancer Grand rounds: 2006 Management of esophageal cancer.
23. Carolinas Health Center: 2006 Radiofrequency ablation for treatment of cancers. Cancer Grand Rounds
24. ASCO 2006, oral presentation: GW572016, gemcitabine and GW572016, gemcitabine and oxaliplatin a two part phase I trial in pancreaticobiliary cancer.
25. ASCO 2006, oral presentation: Cetuximab, paclitaxel, carboplatin and radiation for esophageal cancer

26. American Hepatopancreaticobiliary cancer meeting. Miami March 9-12, 2007: Lapatinib for advanced pancreaticobiliary cancer
27. ASCO GI January 2007 Integration of Targeted Agents into chemotherapy and Chemoradiation for esophagogastric cancer ASCO GI January 2007
28. University of Massachusetts, Cancer Grand Rounds, February, 2008
29. ASCO 2010 Annual Meeting Poster Presentation. Lenalidomide for advanced hepatocellular cancer (HCC) in patients progressing on or intolerant to sorafenib.
30. International Society of GI Oncology, August 2010 Philadelphia A Placebo-Controlled, Randomized Phase 2 Study of Conatumumab (C) or AMG 479 (A) or Placebo (P) + Gemcitabine (G) in Patients (pts) With Metastatic Pancreatic Cancer (mPC)
31. International Society of GI Oncology 2012, Treatment of Gastric Cancer.
32. Tufts Medical Center Boston, Grand Rounds, February 2013, Treatment of Esophageal Cancer
33. ASCO GI 2013, HER2 Clinical Trials and Their Use in Upper Gastrointestinal Cancers.
35. ASCO 2016: RTOG 0436: A phase III trial evaluating the addition of cetuximab to paclitaxel, cisplatin, and radiation for patients with esophageal cancer treated without surgery.
36. ASCO 2016: Avelumab (MSB0010718C), an anti-PD-L1 antibody, as a third-line treatment in patients with advanced gastric or gastroesophageal junction cancer: A phase Ib JAVELIN Solid Tumor trial.
37. ASCO 2017, GI plenary session: Results of the randomized phase II portion of NRG Oncology/RTOG 0848 evaluating the addition of erlotinib to adjuvant gemcitabine for patients with resected pancreatic head adenocarcinoma.

GRANTS:**NIH/NCI**

American College of Radiology	Role: Contract with RTOG	\$57,752	1/1/05- completed
	Radiation Therapy Oncology Group Chair of Gastrointestinal Medical Oncology Committee		
National Cancer Institute	Principal Investigator 5U10CA021661-36	\$1,600,000	3/1/11 – completed
	HER2 testing for RTOG 1010: A Phase III Trial Evaluating the Addition of Trastuzumab to Trimodality Treatment of HER2 Overexpressing Esophageal Adenocarcinoma		

BrUOG
Investigator
Initiated Studies

Celgene	Principal Investigator FOLFOX-A For Locally advanced Pancreatic cancer A Phase II Brown University Oncology Research Group Trial	\$400,000/50 pts	2016- present
Celgene	Principal Investigator FOLFOX-A For Metastatic Pancreatic Cancer: A Phase II Brown University Oncology Research Group Trial	\$400,000/50 pts	2015- present
Advaxis	Principal Investigator BrUOG 276 A phase II evaluation of ADX11-001, mitomycin, 5- fluorouracil and IMRT for anal cancer.	\$281,250	2/13 – completed
Sanofi	Principal Investigator BrUOG 261: Single Agent Adjuvant aflibercept for patients with resected of ablated metastatic colorectal cancer: A randomized phase II study	\$786,838	12/12 – completed

Eisai Pharmaceuticals	Principal Investigator Eribulin Mesylate and Cetuximab in advanced head and neck cancer: A Brown University Oncology Group Phase I Study.	\$260,000	4/12 – completed
Cell Therapeutics Incorporated	Principal Investigator BrUOG 244: PPX and Concurrent Radiation for Newly Diagnosed Glioblastoma Without MGMT	\$608,000 (60 patients)	6/11-completed
Sanofi Aventis	Principal Investigator A Phase II Study of Cabazitaxel for Metastatic Gastroesophageal Adenocarcinomas That Have Relapsed After At Least One Line of Treatment: BrUOG 243	\$208,000	6/11-6/13
Cell Therapeutics	Principal Investigator BrUOG Br-223 - A Phase II Study of (25 patients) Paclitaxel Poliglumex: CT-2103, Temozolomide, and Concurrent Radiation for Newly Diagnosed Brain Tumors	\$147,700	12/1/08-2010
Bristol-Myers	Principal Investigator BrUOG PROS 221 Neoadjuvant Weekly Ixabepilone for High Risk, Clinically Localized Prostate Cancer: A Phase II Study	\$172,500 (30 patients)	12/1/08-12/10
Celgene	Principal Investigator BrUOG HC 212: Lenalidomide for Hepatocellular Carcinoma: A Phase II Trial	\$186,776 (40 patients)	6/1/08-6/13
Cell Therapeutics	Principal Investigator Neoadjuvant Paclitaxel Poliglumex (PPX;CT2103), Cisplatin and Radiation for Esophageal Cancer: A Phase II Trial	\$249,840 (40 patients)	8/27/07-8/09
GSK	Principal Investigator BrUOG PA 209 - Lapatinib and Gemcitabine for Metastatic Pancreatic Cancer: A Phase II Trial	\$147,223 (31 patients)	2/7/07-5/13/09
Bristol-Myers	Principal Investigator: BrUOG Hn 204, Concurrent Chemoradiotherapy with Cetuximab for Stage III and IV Locally	\$240,000 (37 patients)	12/16/05-12/08

Advanced Squamous Cell
Carcinoma of the Head and Neck-A
Phase II Trial

Sanofi	Principal Investigator	\$134,500 (32 patients)	7/20/05-9/17/10
	BrUOG R-201 Phase II Study of Bevacizumab, Oxaliplatin, 5-Flourouracil and Radiation in Rectal Cancer		
Lilly	Dr. Neil Ready was principal investigator for this trial but I assumed leadership after he went to Duke	\$223,000 (31 patients)	6/22/05-1/31/08
	BrUOG HN 206 Cisplatin and Pemetrexed in Metastatic or Recurrent Squamous Cell Carcinoma of the Head and Neck		
Genentech	Principal Investigator	\$165,000 (31 patients)	3/25/05-2008
	BRUOG R-201 A Phase II Study of Bevacizumab, Oxaliplatin, 5-FU and Radiation in Clinical Stage II-III Rectal Cancer		
Roche	Principal Investigator	\$179,500 (34 patients)	12/23/04-3/19/10
	BrUOG EG 103 A Phase I/II Trial of Oxaliplatin, Taxotere and Capecitabine in Advanced CA of the Esophagus and Stomach		
Sanofi	Principal Investigator	\$99,500 (34 patients)	12/16/04-6/17/09
	BrUOG EG-103 A Phase I/II Trial of Oxaliplatin, Taxotere and Capecitabine in Advanced CA of the Esophagus and Stomach		
GSK	Principal Investigator	\$20,000 (27 patients)	12/7/04-9/16/08
	BrUOG PA 205 A Phase I Trial of GW572016, Gemcitabine and Oxaliplatin for Metastatic Pancreaticobiliary Cancer		
Bristol-Myers	Principal Investigator:	\$201,600 (60 patients)	11/26/04-9/16/10
	BrUOG EG 203 Cetuximab, Paclitaxel, Carboplatin and Radiation for Esophageal, Gastroesophageal Junction and Gastric Cancer		

Bristol-Myers	Co-investigator with Dr. Christopher Crane (principal investigator at M.D. Anderson)	\$265,650 (10 patients at RIH and TMH)	11/26/04-4/2/10
	BrUOG PA-207 Phase II Trial of Induction Cetuximab, Gemcitabine and oxaliplatin, Followed by RT with concurrent Capecitabine and Cetuximab, Followed by Maintenance Cetuximab and Gemcitabine for Patients with Locally Advanced pancreatic Cancer		
Roger Williams (subcontract)	Co-PI investigator	\$16,633 (18 patients)	5/19/04-9/19/08
	BrUOG HC-100 A Phase I Study of Hepatic Arterial Infusion of Oxaliplatin in Advanced Hepatocellular Carcinoma		
Cell Therapeutics	Principal Investigator	\$25,000 (36 patients)	1/1/04-8/20/08
	A Phase I Trial of CT-2103, Cisplatin and Radiation for Esophageal and Gastric Cancer		
Genentech	Principal Investigator	\$60,000 (19 patients)	12/13/02-12/2/06
	BrUOG PA94 Phase I Trial of Tarceva, Gemcitabine, Paclitaxel and Radiation for Locally Advanced Pancreatic Cancer		
Roche	Principal Investigator	\$88,000 (44 patients)	1/11/02-1/31/08
	BrUOG ES-88 Phase I/II Trial of Capecitabine, Taxotere, and Carboplatin in Metastatic Adenocarcinoma of the Esophagus and Stomach		
Genentech	Principal Investigator	\$26,200 (49 patients)	4/1/00-12/2/06
	BrUOG ESO-78 A Phase I/II Trial of Herceptin, Paclitaxel, Cisplatin and Radiation Followed by Maintenance Herceptin for Adenocarcinomas of the Esophagus		
RTOG	Principal Investigator	\$6,400	7/1/99-10/5/01
	HER-2/neu Overexpression in Pancreatic Cancer (Evaluated tumor tissue)		
Genentech	Principal Investigator	\$31,000 (34 patients)	3/28/99-2/28/05

BrUOG PA-77 Herceptin and
Gemcitabine for Metastatic Pancreatic
Cancers that Overexpress HER-
2/neu

The Liposome Company	Principal Investigator BrUOG HB-71 Phase II Study of TLC D-99 for Hepatobiliary Carcinomas	\$8,000 (18 patients)	3/1/98-2/28/05
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**Pharmaceutical
Industry
Trials**

Astellas	Spotlight gastric trial	\$14,300	11/1/18- Active
Seattle Genetics	SGNTV-001	\$160,785	10/15/18-Active
Astra Zeneca	AZD1775	\$201,589	2/28/18- Active
Astra Zeneca	AZD1775 extension	\$48,696	2/28/18 - Active
Regeneron	R3767 ONC1613	\$178,198	Active
ACCRUE	BACCI trial	\$125,750	Completed
EMD Serono	LS-P-TRAP001	\$168,901	Completed
Chugai	ERY9794	\$522,760	completed

EMD Serono	Javelin study	\$101,153	Completed
EMD Serono	POST study	\$3,631,051	Active
Regeneron	R2810-ONC-1423	\$133,136	Completed
Genentech	A randomized, phase III multicenter double blind, placebo-controlled study evaluating the efficacy and safety of onartuzumab in patients with advanced gastric cancer.	\$232,770	6/1/13- completed
Amgen	A phase 3 multicenter randomized bould-blind placebo controlled trial of AMG 479 or placebo in combination with gemcitabine as first-line therap for metastatic adenocarcinoma of the pancreas.	\$125,000	12/1/11-completed
Infinity	A Phase 1b/2 Study Evaluating IPI-926 in Combination with Gemcitabine in Patients with Metastatic Pancreatic Cancer	\$349,605	10/1/10-Present
GSK	A double-blind randomized placebo controlled Phase III study to assess the efficacy of recMAGE-A3-+AS15 Antigen-specific Cancer Immunotherapeutic as Adjuvant therapy in patients with resectable MAGE-A3 + Non-Small Cell Lung Cancer	\$108,619	4/21/10-completed
Bristol-Myers	CA196-005-052: A Randomized Double-Blinded Phase II Study of Carboplatin/Paclitaxel/CT-322 versus Carboplatin/Paclitaxel/Bevacizumab as First-Line Treatment for Recurrent or Advanced Non-Small Cell Lung Cancer with Non-Squamous Histology”	\$251,500	3/1/10-completed
Bristol-Myers	A Randomized, Double-blind, Multicenter Phase III Study of Brivanib versus Placebo as Adjuvant Therapy to Trans-Arterial Chemo-Embolization (TACE) in Patients with Unresectable Hepatocellular	\$156,808	2/9/10-completed

Carcinoma: The BRISK TA Study”
CA182-037-049

ImClone	CP12-0712: A Phase II Study to Evaluate the Relationship Between IMC-1121B Therapy and Corrected QT (QTc) Interval Changes in Patients with Advanced Cancer	\$148,460	11/1/09-completed
ImClone	A Phase 3, Randomized, Double-Blinded Study of IMC-1121B and Best Supportive Care (BSC) Versus Placebo and BSC in the Treatment of Metastatic Gastric or Gastroesophageal Junction Adenocarcinoma Following Disease Progression on First-Line Platinum	\$382,805	9/23/09-completed
Novartis	A Phase III Randomized Double-Blind Placebo-Controlled Multi-Center Study of ASA404 in Combination with Paclitaxel and Carboplatin as First-Line Treatment for Locally Advanced or Metastatic Stage IIIb/IV Non-Small Cell Lung Cancer (NSCLC)	\$205,801	7/7/09-1/19/11
Adnexus	Phase 2, 2-Part, Multicenter, Open-Label Study to Evaluate the Safety, Tolerability, and Efficacy of CT-322 (Angiocept™) Monotherapy and Combination Therapy with Irinotecan in Patients with Recurrent Glioblastoma Multiforme” Protocol No. CT-322.002	\$307,312	6/11/09-3/1/11
ImClone	LS-P-IMCL 0710: A Phase 2, Multicenter, Two-Tier Study of IMC-A12 in Combination with Depot Octreotide in Patients with Metastatic, Well - or Moderately Differentiated Carcinoid or Islet Cell Carcinoma	\$207,765	5/21/09-Present
Amgen	A Phase 1b/2 Study to Evaluate the Safety and Efficacy of AMG 655 or AMG 479 in Combination with Gemcitabine as First-Line Therapy for Metastatic Pancreatic Cancer	\$163,435	1/14/09-completed
Newlink	A Phase II Study of Hyper-Acute Pancreatic Cancer Vaccine in	\$282,999	11/1/08-completed

Combination With Chemotherapy
and Chemoradiation in Subjects
with Surgically Resected Pancreatic
Cancer

AstraZeneca	A Randomized, Partially Blinded, Phase II Study to Assess the Safety, Tolerability and Efficacy of ZD6474 Alone or in Combination with Paclitaxel and Carboplatin in Subjects with Previously Untreated Locally Advanced or Metastatic NSCLC	\$55,000	12/15/04-completed
Sigma-Tau	Safety and Efficacy of Oral Gimatecan Administered on a dx4 Schedule every 28 Days as Second line Therapy for Metastatic Colorectal Cancer in Patients without Previous to Camptothecins, a Phase II Trial	\$150,000	5/15/03-1/31/08
Orion	An Open Label Phase I Study to Evaluate the Safety and Tolerability of rV-CEA(6D)/TRICOM Admixed with rV-MUC-1, followed by rF-CEA(6D)/TRICOM in Combination with GM-CSF in Subjects with Unresectable Adenocarcinoma of the Pancreas	\$83,000	3/17/03-1/31/08
Daiichi	LS-P-PA-109 A Randomized, Open-Label, Multicenter Phase III Study Comparing the Efficacy and Safety of a Combination of Intravenous DX-8951F (exatecan mesylate) plus Gemcitabine to Gemcitabine Alone in Patients with Locally Advanced or Metastatic Cancer	\$56,000	9/1/01-2/28/05
Pharmaceutical Research Associates	LS-P-PA103 Randomized Phase II Trial to Evaluate the Effect of Gemcitabine Plus R115777 Versus Gemcitabine Plus Placebo on Time to Deterioration in Patients with Advanced Pancreatic Cancer (R115777-INT-16)	\$80,000	3/20/01-3/31/03
Bristol-Myers	LS-P-GA101 "A Phase II Study of Etoposide Analog BMS-247550 in patients with Metastatic Gastric Adenocarcinoma Previously Treated with a Taxane	\$40,250	2/1/01-completed
Janssen	R115777-INT-11, A Phase III, Double-blind, Placebo-Controlled	\$60,736	10/1/00-12/31/03

Trial of Gemcitabine Plus Placebo
Versus Gemcitabine Plus Placebo
versus Gemcitabine plus R115777 in
Subjects with Advanced Pancreatic
Cancer

Sanofi	A Compassionate Use Study of Oxaliplatin for Previously Treated Colorectal Cancer Patients- LTS7072A/0164	\$2,500	5/1/00-1/31/08
Brown	BrUOG PA-A-128 Phase III, Couple-Blind, Placebo Controlled Trial of Gemcitabine vs. R115777 Plus Gemcitabine in Patients With Advanced Pancreatic Cancer	\$27,000	12/15/99-2/28/05
Brown	BrUOG Br-A-108: Multicenter, 2-arm Phase III Trial Comparing Letrozole 2.5 mg Versus Tamoxifen 20 mg as First-line Therapy in Postmenopausal Women with Advanced Breast Cancer	\$13,405	11/1/99-5/31/2000
Brown	BrUOG LU-A-125 A Phase II Study to Determine the Antitumor Activity of Farnesyltransferase Inhibitor R115777 in Subjects with Relapsed Small Cell Lung Cancer	\$36,750	9/27/99-2/28/05
Brown	BrUOG Co-A-81 Phase II and Pharmacokinetic Study of CPT-11 and Trastuzumab in Advanced Colo-Rectal Cancer with p185 her 2 Overexpression (UPCI 98-056)	\$13,125	5/20/99-2/28/05
Brown	BrUOG LU-A-117 The Silva Study- Survival in an International Phase III Prospective Randomized LD Small Cell Lung Cancer	\$45,035	5/13/99-2/28/05
Brown	Radiation Therapy Oncology Group	\$4,800	10/1/98-4/30/05
Brown	BrUOG PRA-70	\$8,000	4/1/98-2/28/05
Brown	BrUOG Br-A-108: Multicenter, 2-arm Phase III Trial Comparing Letrozole 2.5 mg Versus Tamoxifen 20 mg as First-line Therapy in Postmenopausal Women with Advanced Breast Cancer	\$15,000	11/1/97-6/16/2000
Brown	BrUOG MEL-69 Outpatient, concurrent Chemo-Biotherapy (Cisplatin, Temozolomide, Interleukin-2 and Interferon Alpha-2b) For Metastatic Malignant Melanoma, Phase II	\$10,625	10/1/97-1/31/08

Brown	BrUOG LU-A-109 A Phase III, Multi-Center, Randomized, Double-Blind, Placebo-Controlled Study Marimastat in Patients with Minimal Disease Stage III Non-Small Cell Lung Cancer (CO3/IVB/173)	\$6,000	10/1/97-1/31/08
Brown	Bruog PA-A-110 A Double-Blind, Placebo-Controlled, Randomized Study Comparing Marimastat to Placebo as Adjuvant Therapy in Patients with Respectable Pancreatic Cancer (CO3/IVB/183)	\$9,000	10/1/97-2/28/05

TEACHING EXPERIENCE AND RESPONSIBILITIES:

Throughout my career, I have been closely involved and responsible for clinical training and supervision of Brown University medical students, residents, and hematology/oncology fellows. Furthermore, I have been involved in the clinical research activities and mentoring of young faculty locally at The Miriam and Rhode Island Hospital in my role as medical director of the Brown University Oncology Group.

- 1993- 2017 Hematology/Oncology Noon Conference for Medical Residents
60-minute lectures given approximately 1-2 times annually on hematology/oncology topics to internal medicine residents at The Miriam Hospital, Rhode Island Hospital and The VA Hospital
- 1993- 2008 Medicine Attending Rounds for Medical Residents & Students
Interactive bedside and formal teaching sessions as a one month block (given 4 times a week) every year to medical students and internal medicine residents as part of their attending rounds at The Miriam Hospital
- 1993- 2017 Elective Clinics Rotations for Medicine Residents & Students
These are daily outpatient clinics (4 hour sessions per day, approximately 24 per year) which serve as outpatient teaching sites for the internal medicine residents and students

- 1993- present Hematology/Oncology Grand Rounds for Fellows
These are 60-minute lectures given 1-2 times annually on hematology/oncology topics to hematology/oncology fellows as part of their core lecture series at RIH
- 1993- present Longitudinal Clinics for Hematology/Oncology Fellows
These are year-round weekly outpatient clinics (4 hour sessions) in a longitudinal fashion (3 year duration) which serve as primary outpatient clinical teaching sites for the assigned Hematology/Oncology Fellow. Approximately 1-2 fellows are assigned to me yearly
- 2000- 2016 Moderator, GI Tumor Board, Rhode Island Hospital, Providence, RI: *Moderate the weekly multidisciplinary tumor boards at Rhode Island Hospital for medical oncology, surgical oncology, radiation oncology and pathology and ensure clinical and educational objectives are met in a CME-compatible manner.*

MAJOR MENTORING ACTIVITIES:

- *Brown University medical student*
 - *Tai-Weng Sio (class of 2009): Developed important role in as biostatistician developing preliminary statistics for national trial RTOG 1010 as role as biostatistician for Brown University Oncology Group trials.*
- *Longitudinal Hematology/Oncology Fellows Mentorship (1993-present)*
 - *Anthony Mega, MD, Ashwin Gollerkeri, MD, Felix Lopez, MD Todd Moore, MD, Ritesh Rathore, MD, Brendan McNulty, MD, Nadia Ramdin, MD, James Tsai, MD Maria Constantou, MD, Ahmmed Nadeem, MD, Mark Barnett, MD Barti Chauhan, MD, Devon Evans MD, E.J. Anderson, MD, Brendan McNulty, MD, Joshua Shipley, MD Humera Khurshid, MD Angela Plette MD, Kimberly Perez, MD, Rimini Varghese, MD, Priscilla Merriam MD, Eric Marks were each mentored for 1-3 years during their fellowship. These activities led to publications for all of these fellow and academic careers for many of these Brown University fellow*
- *Longitudinal clinic mentor for residents*
Iris Sheng: 2016 – 2017

Rachel Rome: 2016 - 2018