

CURRICULUM VITAE

THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Martin G. Pomper

DEMOGRAPHIC INFORMATION

Current Appointments

Professor, Departments of Radiology, Pharmacology & Molecular Sciences,
Oncology, Radiation Oncology, Psychiatry and Environmental Health Sciences of the
Bloomberg School of Public Health, Johns Hopkins School of Medicine 2007-

Director, Johns Hopkins Small Animal Imaging Resource 2001-
Associate Director, Johns Hopkins *In Vivo* Cellular and Molecular Imaging Center 2000-

Personal Data

Johns Hopkins Medical Institutions
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Education and Training

Niles Township North High School, Skokie, IL (valedictorian) 1975-79

Undergraduate and graduate: University of Illinois at Urbana-Champaign

B.S. chemistry and biochemistry 1979-82
Ph.D. chemistry (organic) with Katzenellenbogen 1982-89
Thesis: *Fluorine-18 Labeled Estrogens, Progestins
and Corticosteroids for Receptor-Based Imaging of
Breast Tumors and Target Areas of the Brain*

M.D. medicine (Medical Scholars Program) 1982-90

Postgraduate Medical Training: Johns Hopkins University

Intern (Osler Medical Service) 1990-91
Resident (Diagnostic Radiology) 1991-95
Resident (Nuclear Medicine) 1991-95
Fellow (Neuroradiology) 1994-96

Professional Experience

Product Development Tech., Stepan Chemical Co., Northfield, Illinois summer, 1980
Analytical chemistry undergraduate research, University of Illinois spring, 1981
Res. and Development Tech., Stepan Chemical Co., Northfield, Illinois summer, 1981
Res. and Development Tech., Stepan Chemical Co., Northfield, Illinois summer, 1982
Instructor in Radiology, Johns Hopkins School of Medicine 1994-96
Part Time Staff, Maryland General Hospital, Dept. of Nuclear Medicine 1995-96
Assistant Professor, Dept. of Radiology, Johns Hopkins School of Medicine 1996-2001
Associate Professor, Department of Radiology, Johns Hopkins School of Medicine 2002-2007
Associate Professor, Department of Pharmacology & Molecular Sciences, Johns Hopkins School of Medicine 2003-2007
Associate Professor, Department of Oncology, Johns Hopkins School of Medicine 2003-2007
Associate Professor, Department of Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health 2006-2007

RESEARCH ACTIVITIES

My group is dedicated to molecular imaging research: basic, translational and clinical. Our current focus is the development of new radiotracers for PET and SPECT for cancer detection, inflammation/infection and central nervous system disease. We have also embarked recently on a program of molecular-genetic imaging to study signal transduction and cell trafficking. We are comprised of about seven faculty members, a clinical research coordinator, two postdoctoral researchers, three graduate students, two animal technicians and multiple rotating, graduate, undergraduate and medical students and fellows. I currently oversee a wet chemistry laboratory of 1,300 sq. ft. (Cancer Research Building II) and the Johns Hopkins Broadway Research Building Imaging Center (with Dr. Zaver Bhujwalla).

Publications: Peer-Reviewed Scientific Articles

[1] Carlson KE, Brandes SJ, **Pomper MG**, Katzenellenbogen JA. Uptake of three [³H]progestins by target tissues in vivo: implications for the design of diagnostic imaging agents. *Nucl Med Biol* 1988; 15:403-408.

- [2] **Pomper MG**, Katzenellenbogen JA, Welch MJ, Brodack JW, Mathias CJ. 21-[¹⁸F]Fluoro-16 α -ethyl-19-norprogesterone: synthesis and target tissue selective uptake of a progestin receptor based radiotracer for positron emission tomography. *J Med Chem* 1988; 31:1360-1363.
- [3] **Pomper MG**, Pinney KG, Carlson KE, VanBrocklin HF, Mathias CJ, Welch MJ, Katzenellenbogen JA. Target tissue uptake selectivity of three fluorine-substituted progestins: potential imaging agents for receptor-positive breast tumors. *Nucl Med Biol* 1990; 17:309-319.
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- [5] Dehdashti F, Mcguire AH, VanBrocklin HF, Siegel BA, Andriole DP, **Pomper MG**, Katzenellenbogen JA, Welch MJ. Assessment of 21-[¹⁸F]fluoro-16 α -ethyl-19-norprogesterone as a positron-emitting radiopharmaceutical for the detection of progestin receptors in human breast carcinomas. *J Nucl Med* 1991; 32:1532-1537.
- [6] VanBrocklin HF, **Pomper MG**, Carlson KE, Welch MJ, Katzenellenbogen JA. Preparation and evaluation of 17-ethynyl-substituted 16 α -[¹⁸F]fluoroestradiols: selective receptor-based PET imaging agents. *Nucl Med Biol* 1992; 19:363-374.
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- [9] Stone JH, **Pomper MG**, Hellmann DB. Histoplasmosis mimicking vasculitis of the central nervous system. *J Rheumatol* 1998; 25:1644-1648.
- [10] **Pomper MG**, Miller TJ, Stone JH, Tidmore WC, Hellmann DB. Central nervous system vasculitis (CNSV): MR imaging and correlation with angiography. *AJNR Am J Neuroradiol* 1999; 20:75-85.
- [11] Constantinides CD, Gillen JS, Boada FE, **Pomper MG**, Bottomley PA. Sodium MRI and quantification in human skeletal muscle: potential applications in exercise and disease. *Radiology* 2000; 216:559-568.
- [12] **Pomper MG**, Musachio JL, Scheffel U, Macdonald JE, McCarthy DJ, Reif DW, Villemagne V, Yokoi F, Dannals RF, Wong DF. Radiolabeled neuronal nitric oxide synthase inhibitors: synthesis, *in vivo* evaluation and primate PET studies. *J Nucl Med* 2000; 41:1417-1425.
- [13] Port JD, **Pomper MG**. Quantification and minimization of magnetic susceptibility artifacts on GRE images. *J Com Assist Tomogr* 2000; 24:954-964.
- [14] **Pomper MG**, Passe TJ, Burger PC, Brat DJ. Chordoid glioma: a unique neoplasm of the hypothalamus/anterior third ventricle. *AJNR Am J Neuroradiology* 2001; 22:464-469.
- [15] Regan M, Haque UJ, **Pomper MG**, Pardo CA, Stone JH. Central nervous system vasculitis as a complication of refractory dermatomyositis. *J Rheumatol* 2001; 28:207-211.
- [16] Solomon SB, Dogan AS, Nicol TL, **Pomper MG**. PET in the detection and management of sarcomatous transformation in neurofibromatosis. *Clin Nucl Med* 2001; 26:525-528.

- [17] Wasserman BA, Stone JH, Hellmann DB, **Pomper MG**. Reliability of normal MR imaging for precluding the diagnosis of central nervous system vasculitis. *AJR American Journal of Roentgenology* 2001; 177:455-459.
- [18] Tihan T, Burger PC, **Pomper M**, Sanchez O, Ramzan M, Eberhart CG, Hansen C, Smith TW. Subacute diencephalic angioencephalopathy: biopsy diagnosis and radiological features of a rare entity. *Clin Neurol Neurosurg* 2001; 103:160-7.
- [19] Port JD, Brat DJ, Burger PC, **Pomper MG**. Astroblastoma: radiologic-pathologic correlation and distinction from ependymoma. *AJNR Am J Neuroradiol* 2002; 23:243-7.
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- [57] Foss CA, Fox J, Feldman G, Maitra A, Iacobuzio-Donohue C, Kern SE, Hruban R, **Pomper MG**. Radiolabeled anti-claudin 4 and anti-PSCA: initial imaging in experimental models of pancreatic cancer. *Mol Imaging* 2007; 6:131-9.
- [58] Edden RAE, **Pomper MG**, Barker PB. Separate detection of NAA and NAAG using MEGA-PRESS at 3 Tesla. *Magn Reson Med* 2007; 57:977-82.
- [59] Lee JS, Orita H, Gabrielson K, Alvey S, Hagemann RL, Kuhujda FP, Gabrielson EW, **Pomper MG**. Pharmacodynamic assessment of the fatty acid synthase inhibitor C-75 in an experimental model of lung cancer with FDG-PET. *Pharm Res* 2007; 24:1202-7.
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Sharma P, Wax A, Ginsberg GG, Dannenberg AJ, Hawk ET, Messing EM, Grossman HB, Harisinghani M, Bigio IJ, Griebel D, Henson DE, Fabian CJ, Ferrara K, Fantini S, Schnall MD, Zujewski JA, Hayes W, Klein EA, DeMarzo A, Ocak I, Ketterling JA, Tempny C, Shtern F, Parnes HL, Gomez J, Srivastava S, Szabo E, Lam S, Seibel EJ, Massion P, McLennan G, Cleary K, Suh R, Burt RW, Pfeiffer RM, Hoffman JM, Roy HK, Wang T, Limburg PJ, El-Deiry WS, Papadimitrakopoulou V, Hittelman WN, MacAulay C, Veltri RW, Solomon D, Jeronimo J, Richards-Kortum R, Johnson KA, Viner JL, Stratton SP, Rajadhyaksha M, Dhawan A; Workshop Program Committee. Workshop on imaging science development for cancer prevention and preemption. *Cancer Biomark* 2007; 3:1-33.

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- [107] Tsui B, Wang Y, Mok GSP, Walz-flannigan A, Gabrielson K, **Pomper MG**. *Molecular imaging of atherosclerotic plaques in transgenic mice using Tc-99m HYNIC annexin V and high performance SPECT/CT*. 5th Annual Meeting of the Society for Molecular Imaging, Kona, Hawaii, September, 2006.
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- [131] Castanares M, Chowdhury WH, Liu M, Ye Z, Cheng L, Rodriguez R, Lupold SE, **Pomper MG**. *A vector system for generation of site-specific integration of multiple transgenes*. 2008 AACR Annual Meeting, San Diego, CA.
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- [133] Mohamed MA, Lentz MR, Lee V, Sacktor N, Barker PB, **Pomper MG**. *Factor analysis of proton magnetic resonance spectroscopic imaging (MRSI) data reveals differences in HIV dementia status*. Johns Hopkins Bloomberg School of Public Health Conference for the Dissemination of Student Research on Addictions, Infectious Disease and Public Health, Baltimore, MD, April 2008.
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- [136] Hillier SM, Maresca KP, Femia FJ, Zimmerman CN, Barrett JA, Foss CA, Eckelman WC, **Pomper MG**, Joyal JL and Babich JW. Small molecule PSMA inhibitors for targeted molecular imaging of prostate cancer. SNM Annual Meeting, June, 2008.
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- [138] Nimmagadda S and **Pomper MG**. *Immunoimaging of CXCR4 expression in brain tumor xenografts using SPECT/CT*. SNM Annual Meeting, June, 2008.
- [139] Tsui BM, Mok SP, Wang Y, Bedja D, Yu J, Gabrielson K, Nimmagadda S, Bengel F and **Pomper MG**. *Investigation of the development of atherosclerotic plaques in ApoE^{-/-} mice using multi-modality imaging techniques in a longitudinal study*. SNM Annual Meeting, June, 2008.
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- [141] Castanares MA, Chowdhury WH, Cheng L, Liu M, Lupold SE, **Pomper MG**, Rodriguez R, Zhaohui Y. *A vector system for generation of site-specific integration of multiple transgenes*. 2008 AACR Annual Meeting.

- [142] Messersmith WA, Zhang XF, Vilardell F, Song D, Pomper M, Ma WW, Jimeno A, Jacene H, Endres C, Hidalgo M. *FDG-PET in mTOR inhibitor therapy (mTOR Rx): a study of the relationship between Akt/mTOR and glycolytic pathways*. 2008 AACR Annual Meeting.
- [143] **Pomper M**, VanBrocklin H, Anderson C. *What is molecular imaging?* SNM Annual Meeting, June, 2008.
- [144] Barinka C, Byun Y, Dusich CL, Ray S, Chen Y, Castanares M, Kozikowski AP, Mease RC, **Pomper MG**, Lubkowski J. *Structurally-aided development of small-molecule ligands for in vivo imaging of prostate cancer*. NIH Intramural Symposium, 2008.
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- [148] Ratchford JN, Endres CJ, Hammoud D, Watkins C, **Pomper MG**, Calabresi PA. *Effects of glatiramer acetate on microglial activation as measured by PET in multiple sclerosis*. 61st Annual Meeting of the American Academy of Neurology. Seattle, WA, 2009.
- [149] Sedelaar JPM, Isaacs JT, Rosen DM, Mease RC, **Pomper MG**, Denmeade SR. *Targeted imaging of prostate cancer: smart-bomb prodrug mechanism*. American Association for Cancer Research, 100th Annual Meeting. Denver, CO, 2009.

Extramural Funding

Contracts for Clinical Translation:

- National Institutes of Health: Development of Clinical Imaging Drug Enhancers (DCIDE) program
[¹⁸F]DCFBC for Imaging Prostate Cancer
(this award is to provide funds for the National Cancer Institute to subcontract toxicity studies)
- National Institutes of Health: Toxicologic Evaluation of Novel Ligands Program
Intravenous Toxicity Studies of DPA-713 in Sprague-Dawley Rats
(this award is to provide funds for the National Institutes of Mental Health to subcontract toxicity studies)

Grants:

ACTIVE:

9/15/2005-8/31/2009	PSMA-Based Gene Reporter-Probe System 1 R21 EB005324 NIH/NIBIB Total Direct Costs \$947,537 PI, Martin G. Pomper, 10%
5/1/2006-4/30/2008	PSMA-Based SPECT Tracers for Prostate Cancer Imaging 1 R21 CA1114111 NIH/NCI Total Direct Costs \$209,000 PI, Martin G. Pomper, 10%
4/7/2006-3/31/2008	PSMA-Based PET Ligands for Prostate Cancer Imaging 1 R21 CA111982 NIH/NCI Total Direct Costs \$209,000 PI, Martin G. Pomper, 10%
1/1/2006-12/31/2008	Track A Awardee – Brain & Immuno-Imaging Innovations The Dana Foundation Total Direct Costs \$100,000 PI, Martin G. Pomper, 5%
12/1/2005-11/3/2007	PSMA-Based PET Ligands for Prostate Cancer Imaging PC050825 Department of Defense/US Army Total Direct Costs \$264,228 PI, Martin G. Pomper, 5%
9/30/2005-5/31/2007	Imaging Serotonergic Transmission in HIV Depression 1 R21 MH076591 NIH/NIMH Total Direct Costs \$258,459 PI, Martin G. Pomper, 14%
8/8/2005-9/7/2007	GCP-II-Based Inhibitors for Imaging Prostate Cancer AdMeTech Total Direct Costs \$44,794 PI, Martin G. Pomper, 2%

8/27/2001-12/31/2007	<p>Small Animal Imaging Resource Program (SAIRP) 5 R24 CA92871 NIH/NCI Total Direct Costs \$3,578,227 PI, Martin G. Pomper, 10% Notes: Program Director</p>
9/1/2005-8/31/2007	<p>CHARTER Sub-Contract NIMH-00-AI-0005 University of California, San Diego Total Direct Costs \$1,376,089 PI, Justin C. McArthur Co-I, Martin G. Pomper, 5%</p>
8/7/2005-8/7/2007	<p>Gene Transfer Based Prostate Cancer Imaging AdMeTech Total Direct Costs \$45,536 PI, Angelo M. Demarzo Co-I, Martin G. Pomper, 2%</p>
4/8/2005-3/31/2010	<p>Oxidative Stress Markers & HIV Dementia 1 RO1 MH071150 NIH Total Direct Costs \$1,699,485 PI, Ned Sacktor Co-I, Martin G. Pomper, 5%</p>
4/1/2005-3/31/2010	<p>Hedgehog Inhibitors in Pancreatic Cancer 1 RO1 CA113669 NIH Total Direct Costs \$968,932 PI, Anirban Maitra Co-I, Martin G. Pomper, 5%</p>
9/30/2004-8/30/2008	<p>High Resolution SPECT for Molecular Imaging 5 RO1 EB001558 NIH/NIBIB Total Direct Costs \$1,529,185 PI, Benjamin W. Tsui Co-I, Martin G. Pomper, 5%</p>
1/1/2004-12/31/2008	<p>New Approaches to Brain Tumor Therapy CNS Consortium 2 UO1 CA62474 NIH/NCI</p>

	Total Direct Costs	\$162,423
	PI, Henry Brem	
	Co-I, Martin G. Pomper,	2%
9/30/2003-8/31/2007	Development of PET Radioligands for Glutamate Receptors 1 R21 DA16182 NIH/NIDA	
	Total Direct Costs	\$148,013
	PI, William Mathews	
	Co-I, Martin G. Pomper,	3
9/1/2003-8/31/2007	Human Brain Protein MR Imaging & Spectroscopy at 3T 5 R21 EB002666 NIH/NIBIB	
	Total Direct Costs	\$300,000
	PI, Jinyuan Zhou	
	Co-I, Martin G. Pomper,	5%
8/1/2003-7/31/2008	In Vivo Cellular and Molecular Imaging Center (ICMIC) 5 P50 CA103175 NIH/NCI	
	Total Direct Costs	\$6,184,080
	PI, Zaver M. Bhujwala	
	Co-I, Martin G. Pomper,	12%
	Notes: Associate Director	
7/1/2003-6/30/2007	Lung Cancer SPORE 5 R01 CA101232 NIH/NCI	
	Total Direct Costs	\$902,428
	PI, Edward Gabrielson	
	Co-I, Martin G. Pomper,	4%
12/1/2002-11/30/2007	Cervical Cancer SPORE 5 P50 CA098252 NIH/NCI	
	Total Direct Costs	\$1,822,700
	PI, T. C. Wu	
	Co-I, Martin G. Pomper,	5%

GRANTS APPROVED FOR FUNDING:

3/1/2007-2/29/2012	Small Animal Imaging Resource (SAIR) 2 U24 CA92871
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	NIH/NCI	
	Total Direct Costs	\$1,500,000
	PI, Martin G. Pomper,	12%
7/1/2007-6/30/2012	Neutralizing Anti-HGF mAbs and CNS Malignancy Kennedy Krieger Institute Sub-Contract	
	Total Direct Costs	\$158,481
	PI. John Laterra	
	JHU PI, Martin G. Pomper,	5%
7/1/2007-3/30/2012	GCPII-Based Brain Imaging Agents R21 MH080580-01A1	
	NIH/NIMH	
	Total Direct Costs	\$1,023,625
	PI, Martin G. Pomper,	10%
7/1/2008-6/30/2010	Stem Cell Probe Discovery <i>via</i> Bioluminescence TEDCO (Maryland Stem Cell Research Initiative)	
	Total Direct Costs	\$200,000
	PI, Martin G. Pomper,	5%
 <u>COMPLETED:</u>		
1/1/2006-12/31/2006	Small Animal Imaging System Assistance Thomas Jefferson Laboratories	
	RFQ SURA-06-Q023	
	Total Direct Costs	\$18,377
	PI, Martin G. Pomper,	2%
1/1/2005-12/31/2006	Transcription Factor Activity Imaging in Brain & Brain Tumors Kennedy Krieger Institute	
	Total Direct Costs	\$41,266
	PI, Martin G. Pomper,	5%
12/16/2004-12/15/2006	Compound Development for [¹⁸ F]M665017 Astrazeneca Pharmaceuticals	
	Total Direct Costs	\$328,053
	PI, Martin G. Pomper,	5%
9/27/2004-10/31/2006	Vasculitis Outcomes Measures: Development & Validation 5 RO1 AR051874	
	NIH/NIAMSD	
	Total Direct Costs	\$456,358
	PI, John H. Stone	

Co-I, Martin G. Pomper, 3%
Notes: PI has left Johns Hopkins University.

5/1/2003-4/30/2006 Development of NMR Imaging for Tumor Detection
RG020241
Whitaker Foundation
Total Direct Costs \$206,910
PI, Jinyuan Zhou
Co-I, Martin G. Pomper, 5%

4/1/2002-3/31/2006 Imaging of White Matter Architecture
Dana Foundation
Total Direct Costs \$100,000
PI, Susumu Mori
Co-I, Martin G. Pomper, 5%

3/4/2004-3/8/2006 Small Animal Imaging System Evaluation
Jefferson Laboratories (CEBAF)
Total Direct Costs \$58,814
PI, Martin G. Pomper, 2%

1/1/2002-12/31/2005 Imaging Network/Molecular/Functional/Contrast
American College of Radiology
Total Direct Costs \$20,000
PI, Martin G. Pomper,
Notes: **Sub-Committee Chairman**

4/1/2004-6/30/2005 Development of Alpha-7 Nicotinic Cholinergic Radiopharmaceuticals
Astrazeneca Pharmaceuticals
Total Direct Costs \$46,300
PI, Martin G. Pomper, 5%

7/1/2002-6/30/2005 In Vivo Imaging for Hematopoietic Cell Therapies
The V Foundation for Cancer Research (VFRC)
Total Direct Costs \$272,727
PI, Hiyam I. Levitsky
Co-PI, Martin G. Pomper, 10%

6/15/2004-6/15/2005 JHU & GE Show Site Agreement
General Electric Corporation
Total Direct Costs \$2,500
PI, Martin G. Pomper,

7/1/2000-8/31/2003 Multidisciplinary Functional Imaging of Cancer

5 P20 CA086346
NIH/NCI
Total Direct Costs \$743,487
PI, Zaver M. Bhujwalla
Co-I, Martin G. Pomper, 12%

9/28/1999-5/31/2003 CNS Metabolic Correlates of HIV Dementia by MRS Imaging
5 RO1 MH61438
NIH/NINDS
Total Direct Costs \$763,131
PI, Martin G. Pomper, 20%

9/1/2001-8/31/2002 High Resolution Imaging in Small Animals
1 R13 CA94269
NIH/NCI
Total Direct Costs \$8,000
PI, Martin G. Pomper,

7/1/1997-10/1/1999 The Glutamate Hypothesis of Schizophrenia
National Alliance for Research on Schizophrenia & ssion (NARSAD)
Total Direct Costs \$59,740
PI, Martin G. Pomper, 5%

11/17/1997-9/1/1999 MRI & CT Appearance of the Surgical Bed in Brain Tumor Patients
Guilford Pharmaceuticals, Inc.
Total Direct Costs \$4,623
PI, Martin G. Pomper,

7/1/1996-6/30/1998 Radiolabeled Nitric Oxide Synthase Inhibitors
Radiological Society of North America (RSNA)
Total Direct Costs \$110,000
PI, Martin G. Pomper, 20%

4/1/1988-3/31/1990 Imaging Hippocampal Corticosteroid Receptors: An Early Marker for
Alzheimer's Dementia
American Health Assistance Foundation
Total Direct Costs \$250,000
PI, John A. Katzenellenbogen
Graduate student: Martin G. Pomper
Notes: **Primary author – Martin G. Pomper**

Other Funding:

4/1/2004-Present Molecular Radiotherapy for Human Gammaherpesvirus-associated Tumors

- JHU Hematologic Malignancies SPORE (Supplement)
 Total Direct Costs \$62,400
PI, Martin G. Pomper
- 4/1/2006-3/31/2007 Prostate Cancer Imaging: First Clinical Study with a Small Molecule,
 PSMA-based Agent for PET
 Patrick C. Walsh Foundation
 Total Direct Costs \$75,000
PI, Martin G. Pomper
- 1/1/2006-12/31/2006 Imaging Bacterial Infections with Radiolabeled FIAU
 Johns Hopkins Alliance for Science and Technology Development
 Total Direct Costs \$48,500
PI, Martin G. Pomper
- 5/1/2002-4/30/2003 Probing the Mechanism of Parkinsonism in AIDS Dementia
 by Imaging Dopaminergic Transmission
 Johns Hopkins Center for AIDS Research
 Total Direct Costs \$50,000
PI, Martin G. Pomper
- 7/1/1998-6/30/1999 Radiolabeled NAALADase Inhibitors as Imaging Agents for Prostate
 Cancer
 National Cancer Institute: Alexander and Margaret Stewart Trust
 Total Direct Costs \$30,000
PI, Martin G. Pomper
- 10/1/1996-9/30/1998 Metabolic Imaging of Brain Tumors: Focus on Patients with AIDS
 American Cancer Society (IRG)
 Total Direct Costs \$10,000
PI, Martin G. Pomper
- 11/1/1995-10/30/1996 Radiolabeled Nitric Oxide Synthase Inhibitors as Potential In Vivo Probes
 or Cerebrovascular Regulation
 William Gatewood Fellowship (Johns Hopkins University)
 Total Direct Costs \$5,000
PI, Martin G. Pomper

EDUCATIONAL ACTIVITIES

Teaching

Classroom Instruction

General Chemistry, Univ. Illinois (Chemistry 101 -- physical/inorganic; teaching asst.):
First Semester: Fall 1982, 1983, 1984
Second Semester: Spring 1983, 1984, 1985

Lecture/discussion format, 4 days/week, 2 one-hour sessions/day

New Drugs, Univ. Illinois (Chemistry 391 -- special topics; teaching asst.):
First Semester: Fall 1986, 1987
Second Semester: Spring 1987, 1988

MSII Pharmacology Core Curriculum, Johns Hopkins Univ. (molecular imaging)
Fall 2004, 2005
Pharmacology Tutorial, Johns Hopkins Univ. (molecular imaging)
Spring 2006, 2007

Clinical Instruction

Radiology Elective, Johns Hopkins (for medical students) --
monthly, beginning Spring 1992 to present
Neuroradiology Core Curriculum, Johns Hopkins (for residents and fellows)
annually, September 1995 to present
Neurosurgery Resident Oral In-service Examination, Johns Hopkins
annually, 1997, 1998, 2000, 2004, 2005
Director, Neuroradiology Section, Medical Student Coordinator
appointed July, 2001

Continuing Medical Education Instruction

Johns Hopkins Univ. Division of Neuroradiology (annually, since fall, 1999)
Topics: Neuronuclear Imaging, Degenerative Joint Disease of the Spine, Pituitary Imaging,
Orbit Imaging, Molecular Imaging

Mentoring, including dates of training and current position (students with $\geq 50\%$ salary support from Pomper as PI in **bold**; co-mentors are indicated, where appropriate)

- *Andrea Thieme, Ph.D.* (undergraduate student of Dr. John Katzenellenbogen, University of Illinois, Urbana-Champaign)
1987-99: facility manager, GlaxoWellcome
- *Monica Kochanny, Ph.D.* (graduate student of Dr. John Katzenellenbogen, University of Illinois, Urbana-Champaign)
1988-90: Department of Medicinal Chemistry, Berlex Biosciences
- *Amy Ho, M.D.* (medical student, Johns Hopkins University)
1997-98: resident in radiology, Brigham and Women's Hospital, Harvard Medical School
- *Bonaventure Ngu, M.D.* (RSNA Scholar student, University of Maryland);

- 1997: resident in orthopedic surgery, University of Maryland
- *Chris Constantinides, Ph.D.* (graduate student of Dr. Paul Bottomley, Johns Hopkins University)
- 1996-98: physicist, Cambridge Capacitors, Cyprus
- ***Mahaveer Degaonkar, Ph.D.*** (postdoctoral fellow – MR spectroscopy – with Dr. Peter Barker)
- 2001-06: postdoctoral fellow, Department of Radiology, Johns Hopkins University
- *Karen Bleich, M.D.* (Holman Pathway fellow, University of Maryland)
- 2000-02: body imaging fellow, Johns Hopkins Hospital
- ***Jae Sung Lee, Ph.D.*** (postdoctoral fellow – nuclear medicine physics – with Dr. Dean Wong)
- 2002-03: assistant professor, Seoul National University
- ***Melinda Turner, M.D.*** (medical student, Johns Hopkins University)
- 2002, summer: Resident in Emergency Medicine, Johns Hopkins Hospital
- *Sujung Park* (undergraduate student, Johns Hopkins University)
- 2003, summer: undergraduate student, Johns Hopkins University
- ***Catherine Foss, Ph.D.*** (postdoctoral fellow – biology/biochemistry)
- 2003-06: under consideration for promotion to faculty, Johns Hopkins University
- ***Ronnie Mease, Ph.D.*** (visiting associate professor – chemistry/radiochemistry)
- 2003-06: associate professor, Department of Radiology, Johns Hopkins University
- *Aaron LeBeau* (rotating graduate student – pharmacology, Johns Hopkins University)
- 2003, fall: graduate student, Johns Hopkins University
- *Michael Allen* (rotating graduate student – pharmacology, Johns Hopkins University)
- 2003, fall: graduate student, Johns Hopkins University
- ***Christopher Endres, Ph.D.*** (assistant professor – physics)
- 2004-06: assistant professor, Department of Radiology, Johns Hopkins University
- *Dima Hammoud, M.D.* (assistant professor – radiology)
- 2004-06: assistant professor, Department of Radiology, Johns Hopkins University
- *Anku Chander* (medical student, Johns Hopkins University)
- 2004, spring: medical student, Johns Hopkins University
- ***Yimao Zhang, M.S.*** (research associate – molecular biology)
- 2004-06: research associate, Department of Radiology, Johns Hopkins University
- ***Sen Wang, Ph.D.*** (postdoctoral fellow – chemistry)
- 2004-06: postdoctoral fellow, Johns Hopkins University
- ***Sori Lee*** (undergraduate student, McMaster University)
- 2004, summer: undergraduate student, McMaster University
- ***Joyce Rollor*** (undergraduate student, Tufts University)
- 2004, summer: undergraduate student, Tufts University
- *Calvin Moh* (undergraduate student, Johns Hopkins University)
- 2004, fall (undergraduate student, Johns Hopkins University)
- ***Crystal Dusich*** (graduate student – chemistry)
- 2004-06: graduate student, Johns Hopkins University – Homewood chemistry
- *Kevin Khater, M.D.* (clinical postdoctoral fellow, Department of Radiation Oncology, Johns Hopkins University – with Dr. Theodore DeWeese)
- 2004-05: instructor in radiation oncology, Medical College of Wisconsin

- **Yuchuan Wang, Ph.D.** (graduate then postdoctoral student – physics, Department of Radiology, Johns Hopkins University – with Dr. Benjamin Tsui)
2004-06: postdoctoral fellow, Johns Hopkins University
- **Haofan Wang, Ph.D.** (postdoctoral fellow – chemistry, Bloomberg School of Public Health, Johns Hopkins University – with Dr. Kwamena Baidoo)
2005-06: postdoctoral fellow, Johns Hopkins University
- **Michael Freitag** (graduate student – biochemistry and molecular biology, Universitaet Bremen)
2005, summer: graduate student, Universitaet Bremen
- **Carrie Bhang** (graduate student – pharmacology, Johns Hopkins University)
2005-06: graduate student, pharmacology
- **Kristie Stone** (graduate student – chemistry, Johns Hopkins University)
2005-08: forensic chemist, Baltimore City PD
- **Sridhar Nimmagadda, Ph.D.** (postdoctoral fellow – biology/biochemistry, Johns Hopkins University)
2005-06: postdoctoral fellow, Johns Hopkins University
- **Susanne Hemker, Ph.D.** (postdoctoral fellow – physics, Johns Hopkins University – with Dr. Benjamin Tsui)
2005-06: postdoctoral fellow, Johns Hopkins University
- **Alisa Walz-Flannigan, Ph.D.** (postdoctoral fellow – physics, Johns Hopkins University – with Dr. Benjamin Tsui)
2005-06: postdoctoral fellow, Johns Hopkins University
- **Natalia Zarzhevsky, M.D., Ph.D.** (visiting resident – biology, University of Michigan)
2005, fall: resident in radiology, University of Michigan
- **Linda Chu** (rotating medical student – biology, Johns Hopkins University)
2005, fall: medical student, Johns Hopkins University
- **Lisa Phillipose** (rotating medical student – MR spectroscopy, Johns Hopkins University)
2005, fall: medical student, Johns Hopkins University
- **Sangeeta Ray, Ph.D.** (research associate – chemistry, Johns Hopkins University)
2005-06: research associate, Johns Hopkins University
- **Jianhua Yu** (graduate student – physics, Department of Radiology, Johns Hopkins University – with Dr. Benjamin Tsui)
2005-06: graduate student, medical imaging physics, Johns Hopkins University – with Dr. Benjamin Tsui
- **Keng Fai Kwok** (graduate student – physics, Department of Radiology, Johns Hopkins University – with Dr. Benjamin Tsui)
2005-06: graduate student, medical imaging physics, Johns Hopkins University – with Dr. Benjamin Tsui
- **Mark Castaneres** (graduate student – pharmacology, Johns Hopkins University)
2006, spring: graduate student, Johns Hopkins University
Winner of NIH's Ruth L. Kirschstein National Research Service Award (NRSA)
Predoctoral Fellowship Award for Minority Students
- **Ying Chen** (postdoctoral fellow – chemistry, Johns Hopkins University)
2006: postdoctoral fellow, Johns Hopkins University.
- **Youngjoo Byun, Ph.D.** (postdoctoral fellow – chemistry, Johns Hopkins University)

- 2006: postdoctoral fellow, Johns Hopkins University.
- *Andrea Benedict* (rotating graduate student – pharmacology, Johns Hopkins University)
2006 summer: graduate student, pharmacology, Johns Hopkins University.
- *Zhongyu Zhou* (rotating graduate student – pharmacology, Johns Hopkins University)
2006 fall: graduate student, pharmacology, Johns Hopkins University.
- *Aditya Jain* (graduate student, Bloomberg School of Public Health)
2007 spring: graduate student, Bloomberg School of Public Health
- *Alison Tsao* (undergraduate student, Johns Hopkins University)
2006 fall, 2007 spring: undergraduate student, Johns Hopkins University
- *Jeffrey Neal* (undergraduate student, Johns Hopkins University)
2006 fall, 2007 spring: undergraduate student, Johns Hopkins University
- *Steven Cho*: (assistant professor, nuclear medicine, Johns Hopkins University)
2007 fall -: assistant professor, Johns Hopkins University
RSNA Scholar Award winner
- *Benjamin Tsai* (undergraduate student, Johns Hopkins University)
2007 fall - 2008 spring: undergraduate student, Johns Hopkins University
- *Nia White*: (Rotating graduate student – Pharmacology, Johns Hopkins University)
- *JP Yu, Ph.D.* (visiting postdoctoral fellow, Univ. Illinois, Urbana)
2008, spring: medical student (M.D., Ph.D.), Medical Scholars Program
Winner of RSNA medical student award winner
- *Bradley Foerster, M.D.* (Neuroradiology fellow – Johns Hopkins University)
2007, fall: Neuroradiology fellow – Johns Hopkins University
Berlex Award Winner of the American Society of Neuroradiology
- *Myria Petrou, M.D.* (Neuroradiology fellow – Johns Hopkins University)
2007, fall: Neuroradiology fellow – Johns Hopkins University
Berlex Award Winner of the American Society of Neuroradiology
- *Crystal Watkins* (clinical postdoctoral fellow – Psychiatry, Johns Hopkins University)
2008 Fall: clinical postdoctoral fellow – Psychiatry, Johns Hopkins University
- *Mona Mohamed* (rotating clinical postdoctoral fellow – Radiology, Johns Hopkins University)
2007 Spring: clinical postdoctoral fellow – Radiology, Johns Hopkins University
- *Ovsev Uzuner* (rotating clinical postdoctoral fellow – Radiology, Johns Hopkins University)
2007 Spring: clinical postdoctoral fellow – Radiology, Johns Hopkins University
- *David Bonekamp* (resident – Radiology, Johns Hopkins University)
2008 Spring: resident – Radiology, Johns Hopkins University
- *Emily Wood* (graduate student – Biomedical Engineering, Johns Hopkins University)
2008 Fall: graduate student – Biomedical Engineering, Johns Hopkins University
- *David Chien* (nuclear medicine resident - Radiology, Johns Hopkins University)
2008 Fall: nuclear medicine resident - Radiology, Johns Hopkins University

Formal Faculty Mentees, Department of Radiology:

- Dima Hammoud, M.D.
- Ronnie Mease, Ph.D.
- Christopher Endres, Ph.D.

- Bruce Wasserman, M.D.

Formal Faculty Mentees, NIH K-award:

- Adam Kaplin, M.D., Ph.D. (Department of Psychiatry, awarded 2005)
- Paul Rosenberg, M.D. (Department of Psychiatry, awarded 2008)

Ph.D. Thesis Students (current):

- Carrie Bhang, Department of Pharmacology & Molecular Sciences
- Mark Castanares, Department of Pharmacology & Molecular Sciences
- Emily Wood, Department of Biomedical Engineering

Ph.D. Thesis Conferred:

- Crystal Dusich, Department of Chemistry, Homewood

Ph.D. Thesis Committee:

- Yvette Tanhehco, Ph.D., Department of Cellular & Molecular Medicine (Dr. Richard Ambinder)
- Michael Yu, M.D., Department of Cellular & Molecular Medicine (Dr. Richard Ambinder)
- Aaron LeBeau, Department of Pharmacology & Molecular Sciences (Dr. Samuel Denmeade)
- Andrew DuFresne, Department of Pharmacology & Molecular Sciences (Dr. Richard Ambinder)

Residents and Clinical Fellows, Resulting in Publication:

- Theodore Passe, Stephen Solomon (residents), Clifford Belden, John Port, James Okoh, Bruce Wasserman (fellows)

Training Grant Participation: T32 (Dr. Dean Wong, PI, Department of Radiology); T32 Pharmacology Graduate Student Program (Dr. Ronald Schnaar, PI, Department of Pharmacology & Molecular Sciences); T32 NIH Postdoctoral Training Program in Nanotechnology for Cancer Medicine (NTCM) (Dr. Denis Wirtz, PI, Department of Chemical and Biomolecular Engineering); T32 Health Effects of Nanotechnology (Dr. Pat Breyse, Department of Environmental Health Sciences, JHSPH).

Grants Received by Trainees Under My Direction:

- Department of Defense: PC050999 (Postdoctoral Traineeship Award – Dr. Catherine Foss)
Fluorescent and Radiolabeled Small Molecule Ligands for Prostate-Specific Membrane Antigen: In Vivo Imaging in Experimental Models of Prostate Cancer
Period: 07/01/05-06/30/06.
Total direct costs: \$97,677

- Dana Foundation (transferred PI to Dr. Dima Hammoud)
Imaging Inflammation in AIDS Dementia: PET with [¹¹C]Arachidonic Acid
Period: 04/01/06-03/31/09
Total direct cost: \$100,000
Current year direct cost: \$33,000
Percent effort: 5

- JHU NIMH Pilot Award: Dr. Christopher Endres
Imaging Glial Activation in AIDS Dementia using a novel peripheral benzodiazepine receptor ligand
Period: 04/01/07-03/31/08
Total direct costs: \$45,000

- RSNA Scholar Award: Dr. Steven Y. Cho
Imaging Advanced Prostate Cancer with [¹⁸F]DCFBC PET/CT
Period: 07/01/08-06/30/10.
Total direct costs: \$150,000

- RSNA Medical Student Research Award: Dr. John-Paul Yu (University of Illinois)
Novel Radiotherapeutic Approaches to Prostate Cancer: In Vivo Biodistribution Studies of Radiolabeled Small-molecule Ligands for the Prostate-Specific Membrane Antigen
Period: 03/01/08-04/30/08.
Total direct costs: \$6,000

- NIH Kirchstein National Research Service Award: Mark Castanares
Development of PSMA as a Reporter System for Imaging

- American Brain Tumor Association: Dr. Sridhar Nimmagadda
Radiolabeled Analogs of CXCR4 for Brain Tumor Imaging
Period: 07/01/08-06/30/09.
Total direct costs: \$50,000

EDITORIAL ACTIVITIES

Referee

Radiology, American Journal of Neuroradiology, Neuropsychopharmacology, Journal of Experimental Neuropsychopharmacology, Journal of Experimental Neurology, Journal of Nuclear Medicine, Journal of Clinical Oncology, Molecular Imaging, Proceedings of the National Academy of Sciences of the USA, Nuclear Medicine and Biology, Drug Design Reviews, Cancer Research, Science, Nature Medicine

Election for Editorial Board

- Molecular Imaging 2001-
- Drug Design Reviews – Online 2003-
- Molecular Imaging (Editor-in-Chief) 2007-
- Academic Radiology (Duputy Editor) 2007-

CLINICAL ACTIVITES

Board Certification

- Diplomate National Board of Medical Examiners 1991
- American Board of Radiology (Diagnostic) 1995
- American Board of Nuclear Medicine 1995, 2005

Medical Licensure

- Maryland
- New York
- Delaware

Service Responsibilities

- Full-time staff, Division of Neuroradiology

ORGANIZATIONAL ACTIVITIES

Institutional and Other Administrative

- MS-3 Representative to the Educational Policy Committee (Univ. Illinois) 1985-86
- Clinical Director of quantitative cerebral blood flow PET imaging, Johns Hopkins Hospital 1996-98
- Medical student advisor 1996-
- Alzheimer’s Association Initial Review Board of the Medical and Scientific Advisory Council 1996-
- Member of the Molecular Imaging Subgroup of the NCI Imaging Sciences Working Group 1998
- AUR Program Committee 1997-
- NABTT Consortium (Adult Brain Tumor Clinical Trials) Neuroradiology Liaison. (PI - Henry Brem, M.D.) 1997-
- Grant Reviewer for the RSNA Research and Education Fund 1998-
- Neuroradiology Specialist to the Johns Hopkins Vasculitis Center 1999-
- design of the imaging subcore of the Broadway Research Building (BRB) Animal Research Facility 2000
- ACRIN, Molecular Imaging Committee Chair 2001-06
- Grant Reviewer for Johns Hopkins University Institutional Research

Grants (IRG)	2001-
- Expert Panel, Canadian Foundation for Innovation	2001-
- Study Section, National Institutes of Mental Health (HIV/AIDS) – ad hoc	2001-
- Study Section, National Institutes of Health Diagnostic Imaging (DMG) – ad hoc	2001-
- Reviewer for National Cancer Institute DCIDE program	2002-
- Policy Committee, Center for High Resolution Imaging of Functional Neural Circuits in Behavior and Pathology, Columbia University	2002
- Elected to the Medical School Council	2002-06
- Expert Panel, Development of Radiology Research Infrastructure (Pasadena, CA)	2003
- Molecular Imaging Task Force, Johns Hopkins University	2003-
- Elected to Treasurer, Society for Molecular Imaging	2004-06
- External Advisory Board to University of Pennsylvania Brain Tumor PPG (Dr. Sidney Evans, PI)	2004
- Scientific Advisory Board, Goldhirsh Foundation (brain tumor research)	2004-
- Steering Committee, Johns Hopkins Institute for Nanobiotechnology	2005-
- Radiological Society of North America, Molecular Imaging Refresher Course (Course Originator and Organizer)	2005-06
- Scientific Advisory Board, Goldman Foundation (pancreatic cancer research)	2005-
- Scientific Advisory Board, NorthStar Nuclear Medicine	2005-
- Radiological Society of North America, Molecular Imaging Committee	2005-
- Johns Hopkins Technology Opportunities Program	2005-
- President of the Molecular Imaging Center of Excellence (MICoE) of the Society of Nuclear Medicine	2006-08
- Nominated for President, Society for Molecular Imaging	2006
- Board of Scientific Counselors of the NIH Clinical Center	2007-
- Scientific Advisory Board: Molecular Insight Pharmaceuticals	2007-
- Board of Directors: NorthStar Nuclear Medicine	2008-
- Scientific Advisory Board: MDS Nordion	2008-
- Scientific Advisory Board: Penn Center for Musculoskeletal Disorders	2008-
- Scientific Advisory Board: University of Virginia Cyclotron Facility	2008-
- Scientific Advisory Board: CIHR Team in Image Guidance for Prostate Cancer, London Regional Cancer Center	2008-
- Member, Clinical Molecular Imaging and Probes Study Section (NIH)	2009-

Societies

Sigma Xi, Phi Lambda Upsilon, American Chemical Society, Radiological Society of North America, American Roentgen Ray Society, American Society of Neuroradiology, Eastern Neuroradiological Society, Society of Nuclear Medicine, Society for Molecular Imaging, Society for Noninvasive Imaging in Drug Development, The Society of Radiopharmaceutical Chemistry and Biology, American Association of Cancer Research

Meeting Organizer & Program Committee

- Organizer and Co-chairman of *High Resolution Imaging in Small Animals with MR, PET and Other Modalities* (Rockville, MD 09/01)
- Session Chair/Organizing Committee Member, *Second Annual Meeting of the Society for Molecular Imaging* (San Francisco, CA 08/03)
- Session Chair, *Third Annual Meeting of the Society for Molecular Imaging* (St. Louis, MO 09/04)
- Organizer, *Conjoint SMI/RSNA/SNM Preconference Symposium on Molecular Imaging* (Kona, Hawaii, 09/06)
- Session Chair, *Fifth Annual Meeting of the Society for Molecular Imaging* (Kona, Hawaii, 09/06)
- Session Chair, *92nd Scientific Assembly and Annual Meeting* (Chicago, IL, 11/06)
- Session Chair, *54th Annual Meeting of the Society of Nuclear Medicine* (Washington, DC, 06/07)
- Session Chair, *Annual Meeting of the American Association for Cancer Research* (San Diego, CA, 04/08)
- Session Chair, *Annual Meeting of the SNM* (New Orleans, LA, 06/08)
- Session Chair, *Seventh Annual Meeting of the Society for Molecular Imaging* (Nice, France, 09/08)
- Session Chair, *Radiological Society of North America* (Chicago, IL, 12/08)

CONSULTANTSHIPS

- Pharmaceutical Industry Analyst, Paisley Associates, Urbana, IL 1987-90
- Radiology Consultant, Quintiles, Intelligent Imaging, Philadelphia, PA 2000-01
- Gerson-Lehrman Group, New York, NY 2002-
- General Electric Global Research, Niskayuna, NY 2006-
- Schering-Plough Research Institute, Kenilworth, NJ 2006-
- Advisor to the Molecular Imaging Program at Virginia Commonwealth Univ. 2006-
- Advisor to the Molecular Imaging Program at Emory Univ. 2006-

RECOGNITION

Awards and Honors

- Medical Scholars Program 1982-90
- Outstanding Teaching Assistant, General Chemistry Spring, 1983, 84, 85
Fall, 1983, 84
- Head Teaching Assistant, Chemistry 101 Fall 1983, 84
- University of Illinois College of Medicine Summer Research Fellow 1983-84
- Boehringer-Ingelheim Pharmacology Essay Contest, Second Place 1985
- University of Illinois, Graduate College Conference Travel Grant 1987
- University of Illinois, Student Medical Research Forum, Second Place 1988
- Berson-Yalow Award, Soc. Nucl. Med.-San Francisco (co-author) 1988
- R.C. Fuson Award for Excellence in Organic Chemistry 1988

- Jordan F. Asketh Fellow (College of Medicine -- first recipient) 1988-90
- William Gatewood Fellowship (Johns Hopkins) 1995
- Radiological Society of North America, Scholars Grant Award 1996-98
- NARSAD Young Investigator 1997-99
- Marcia Simon Investigator (NARSAD) 1997-99
- RSNA Certificate of Merit 1998
- Berson-Yalow Award, Soc. Nucl. Med.-San Francisco (co-author) 2007
- Distinguished Service Award, SNM 2008

Invited Lectures

12/09/96	Johns Hopkins University-Stanley Neurovirology Laboratory	"Psychiatric Imaging: Focus on Schizophrenia"
12/16/96	Walter Reed Army Medical Center -- Residency Training Program	"Classics of CNS Differential Diagnosis"
01/09/97	Astra Arcus U.S.A. Rochester, NY	"Positron Emission Tomography in Drug Research: Focus on Brain Imaging"
04/24/97	Johns Hopkins University-Radiology Grand Rounds	"Imaging Nitrergic Transmission"
05/14/98	Guilford Pharmaceuticals Baltimore, MD	"Radiopharmaceuticals in Drug Research: Focus on Brain imaging"
07/13/98	Maryland General Hospital	"Use of Tissue Plasminogen Activator in Acute Stroke"
08/13/98	Johns Hopkins University-Dept. of Radiology	Commencement address to the graduating nuclear medicine and ultrasound technologists
03/01/99	Johns Hopkins University-Dept. of Neurology	"HIV Metabolic Neuroimaging"
12/09/99	Georgetown University, Drug Discovery Program	"Imaging Agent Development"
07/20/00	Johns Hopkins University-Oncology (Vogelstein group)	"Molecular Imaging for Oncology"

09/29/00	Johns Hopkins University Division of Endocrinology	“Sellar Imaging”
03/06/01	Thomas Jefferson University Radiology Grand Rounds	“Molecular Imaging for Oncology”
03/14/01- 03/16/01	Principles and Practice of Clinical MRI (Marco Isl. Review Course at JHU)	“1) New Techniques in MR Imaging of Brain Tumors; 2) Cranial Nerve Imaging”
04/23/01	Think Tank: Translating Molecular Imaging from Research to Radiologic Practice (Lansdowne, VA)	“Molecular Imaging: an Overview”
05/09/01	Johns Hopkins University In Vivo Cellular and Molecular Imaging Center	“PET for Small Animals”
06/22/01	Johns Hopkins University Division of Neurosurgery	“New Techniques in MR Imaging of Brain Tumors”
08/04/01- 08/05/01	Cap CURE Think Tank (Chicago, IL)	“Molecular Imaging for Oncology”
08/16/01- 08/19/01	Colombian Society of Neuroradiology	“Topics Related to Clinical Neuroradiology”
08/24-/01- 08/25/01	Michigan State University Molecular Imaging Workshop	“Functional Imaging of Cancer”
09/05/01- 09/08/01	American Society of Head and Neck Radiology	“Temporal Bone Disease in the Immunocompromised Host”
09/12/01	Society for Noninvasive Imaging in Drug Development	“Predicting the Success of a Radiopharmaceutical for <i>in Vivo</i> Imaging”
09/30/01- 10/04/01	Imaging in 2020	“Predicting the Success of a Radiopharmaceutical for <i>in Vivo</i> Imaging”
10/19/01	Johns Hopkins University	“Molecular Imaging”

Comprehensive Transplant Center

02/09/02	Johns Hopkins University Inst. of Genetic Medicine	“Small Animal PET”
02/28/02	Biomedical Imaging Program NCI	“Radiopharmaceutical Development”
04/25/02	Johns Hopkins University Division of MR Research	“Nuclear Imaging in Drug Development”
05/07/02	Stanford University Department of Radiology	“Functional Imaging of Cancer”
05/14/02	Delaware Valley Drug Metabolism Discussion Group	“Molecular Imaging in Drug Development”
05/15/02	Columbia University Dept. of Radiology, NY (Grand Rounds)	“Molecular Imaging”
05/18/02	International Society for Magnetic Resonance in Medicine (Educational Program)	“Basic Neurochemistry”
06/18/02	Agensys, Inc.	“Molecular Imaging in Drug Development”
07/10/02	IEEE Biomedical Imaging Symposium	“Radiopharmaceutical Development”
08/19/02	Memorial Sloan-Kettering Cancer Center Division of Nuclear Medicine	“Functional Imaging of Cancer”
09/04/02	University of Pennsylvania, Division of Neuroradiology	“CNS Molecular Imaging”
03/08/03	10 th Anniversary Symposium of National PET/Cyclotron Center, Taipei Veterans General Hospital	“Small Animal Imaging in Drug Development”
03/19/03	New York University Radiology Grand Rounds Visiting Professorship	“Molecular Imaging”

04/02/03	Johns Hopkins University Department of Pharmacology and Molecular Sciences	“Molecular Imaging”
04/29/03	ASNR Research Symposium	“Preparing to write a grant”
08/18/03	2 nd Annual Meeting of the Society for Molecular Imaging – plenary lecture	“Molecular Imaging in Drug Development”
08/23/03	Medical Scholars Program Annual Research Conference University of Illinois at Urbana-Champaign Keynote Address	“Molecular Imaging” “Careers in Medical Research”
09/03/03	Northwestern University (Chicago) Radiology Grand rounds	“Molecular Imaging”
10/07/03	Johns Hopkins University Symposium: Enhancing Humane Science	“Small Animal Imaging”
10/20/03	Memorial Sloan-Kettering Cancer Center Radiology Grand Rounds	“Molecular Imaging Research at Johns Hopkins”
11/14/03	Johns Hopkins University School of Public Health	“Small Animal Imaging”
12/01/03	RSNA Focus Session: Molecular Imaging: Potentials and Challenges for Radiology	“Translating Molecular Imaging Research to the” Clinic”
01/15/04	Johns Hopkins University Department of Urology	“Imaging PSMA: an Update”
02/02/04	AdMeTech/CapCURE Think Tank Molecular Imaging of Prostate Cancer	“Molecular Imaging with PET: Current and Potential Research”
02/04/04	University of Maryland Radiology Grand Rounds Visiting Professorship	“Molecular Imaging”
03/08/04	Johns Hopkins University Anticancer Drug Development Group Department of Pharmacology	"Molecular Imaging In Drug Development"

03/20/04	Johns Hopkins University The Role of PET/CT and SPECT/CT Imaging In Medical, Radiation, Surgical and Nuclear Oncology	"New Radiolabeled Chemotherapeutic Agents"
04/30/04	University of Pennsylvania Department of Radiology Molecular Imaging Symposium	"Molecular Imaging in Oncology"
05/20/04	Department of Energy	"Applications of Small Animal Imaging"
06/06/04	American Society of Neuroradiology Research Symposium	"Translating Molecular Imaging Research in the Neurosciences"
06/15/04	NIAID/NIH Biodefense Clinical Research Workshop	"Radionuclear Microbial Imaging"
06/28/04	Strategic Research Institute Annual CNS Disease Congress	"Molecular Imaging in drug Development"
08/31/04	University of Pittsburgh Department of Radiology	"Molecular Imaging In Oncology"
10/08/04	NIMH Division of Molecular Imaging (Robert Innis group)	"The JHU Small Animal Imaging Resource Program: an Update"
10/09/04	ACRIN Annual Meeting	"Molecular Imaging"
10/15/04	NCI New Investigator Meeting	"Clinical Trials: Diagnostic vs. Therapeutic Agents"
10/20/04	American Association of Neurological Surgeons	"Molecular Imaging of the Central Nervous System"
11/20/04	Society of Neurooncology Meet the Experts Panel	"Molecular Imaging of the CNS: Focus on Nuclear Medicine"
12/20/04	Schering AG (Berlin)	"PSMA-based Imaging of Prostate Cancer"

01/16/05- 01/21/05	Gordon Research Conference on Early Cancer Detection Santa Barbara, CA	"New Imaging Techniques for Prostate Cancer"
02/07/05	Brown University Visiting Professorship	"Molecular Imaging" "New Techniques in Brain Tumor Imaging"
02/17/05	AstraZeneca Wilmington, DE	"Imaging $\alpha 7$ -nAChR"
03/08/05	Society of Toxicology New Orleans, LA	"Molecular Imaging in Toxicology Research"
03/10/05	Johns Hopkins University Department of Pharmacology	"Research Update"
03/15/05	Johns Hopkins University Neuroimmunology Group	"In Vivo Imaging of Inflammation"
03/17/05	Johns Hopkins University Neurosurgery Grand Rounds	"Molecular Imaging of the CNS"
03/17/05- 03/23/05	Chinese Medical Societies Beijing, PR China	"Molecular Imaging" "New Techniques in Brain Tumor Imaging"
04/03/05	10 th International Congress on Schizophrenia Research Savannah, GA Symposium Speaker	"Small Animal Imaging in CNS Research"
04/17/05	American Association for Cancer Research Anaheim, CA	"Translating Molecular Imaging Research to Clinical Oncology"
04/29/05	GE Healthcare Princeton, NJ	"Translational Molecular Imaging"
05/09/05	International Society for Magnetic Resonance in Medicine Plenary Speaker	"Cancer and Immuno- deficiency Imaging in a Multidisciplinary World"

05/27/05	University of Western Ontario 2 nd Annual Oncology Research and Education Day Keynote Speaker	“Molecular Imaging”
09/26/05	GE Global Research Niskayuna, NY	“Molecular Imaging in Oncology”
10/03/05	International Cancer Imaging Society 5 th Annual Teaching Course Keynote Lecture Amsterdam, Netherlands	“Basic Concepts of Molecular Imaging”
10/26/05	MD Anderson Cancer Center 58 th Annual Symposium on Fundamentals of Cancer Research Houston, TX	“Small Animal Imaging in Oncology: Focus on Probe Development”
10/30/05	American Association for Cancer Research 4 th Annual AACR Annual Conference Baltimore, MD	“Translational Molecular Imaging”
11/11/05	University of Illinois at Chicago Department of Pharmacology Chicago, IL	“Molecular Imaging”
11/12/05	Johns Hopkins University Department of Urology CME Course	“Molecular Imaging of Prostate Cancer”
11/22/05	Wake Forest University School of Medicine Greensboro, NC Department of Neurosurgery	“Molecular Imaging in Oncology”
12/01/05	Radiological Society of North America Refresher Course Chicago, IL	“Molecular Imaging: Introduction and Overview”
12/05/05	Topical Symposium on Advanced Molecular Imaging Techniques in the Detection, Diagnosis, Therapy and Follow-up of Prostate Cancer	“New Developments in Molecular Imaging of Prostate Cancer”

Rome, Italy

01/21/06	Maryland State ASTAR Judges In-State Work Shop Johns Hopkins University	“Clinical Applications of Magnetic Resonance Imaging of the Central Nervouse System”
02/10/06	Johns Hopkins Dementia Retreat Division of Cognitive Neuroscience	“Molecular Imaging in Neurodegenerative Disease”
02/11/06	Society of Nuclear Medicine Mid-Winter Meeting Tempe, AZ	“Identification of Novel Targets for Molecular Imaging Probes”
03/22/06	Johns Hopkins Phenotyping Symposium: Mice and Beyond Department of Comparative Medicine	“Small Animal Imaging”
04/03/06	American Association for Cancer Research 97 th Annual Meeting Washington, DC Major Symposium Speaker	“Molecular Imaging in New Therapeutic Development”
04/20/06	Molecular Insight Pharmaceuticals Quarterly Scientific Meeting Cambridge, MA	“Molecular Imaging of Prostate Cancer: Focus on PSMA”
04/30/06	American Society of Neuroradiology 44 th Annual Meeting Neuroradiology Education and Research Foundation Symposium San Diego, CA	“Molecular Imaging”
05/04/06	Case Western Reserve University Blood Club Cleveland, OH	“Molecular Imaging for Oncology”
07/10/06	NIH Workshop on Imaging Science Development Washington, DC	“Translational Molecular Imaging for Oncology”
08/30/06	RSNA/SMI/SNM Preconference Symposium on Molecular Imaging	“Molecular Neuroimaging: from Conventional to

	Kona, Hawaii	Emerging Techniques”
09/11/06	Abbott Laboratories Abbot Park, Illinois	“Molecular Neuroimaging: from Conventional to Emerging Techniques”
09/12/06	American Association for Cancer Research Molecular Diagnostics in Cancer Therapeutic Development Chicago, IL	“Molecular Imaging for Oncology”
09/18/06	Johns Hopkins University Department of Radiation Oncology Baltimore, MD	“Molecular Imaging for Oncology”
09/20/06	Society for Biomedical Sciences 12 th Annual Conference and Exhibition Seattle, WA	“Molecular Imaging in Cancer Therapy Development”
09/21/06	MPI Molecular Imaging Research Summit Kalamazoo, MI	“Translational Molecular Imaging: Biology Determines Modality”
10/22/06	Canadian Association of Radiology Montreal, Canada	“Molecular Imaging: an Overview”
10/24/06	3rd International Tumor Progression and Therapeutic Resistance Baltimore, MD	“Translational Molecular Imaging for Oncology”
10/25/06	Hilal Lecture Columbia University New York, NY	“Molecular Neuroimaging: from Conventional to Emerging Technologies”
10/31/06	Taiwanese Society for Molecular Imaging Taipei, Taiwan	“Molecular Neuroimaging: from Conventional to Emerging Technologies”
10/31/06	Taiwanese Society for Molecular Imaging Taipei, Taiwan	“Nanoparticle-based Molecular Imaging”

11/08/06	Molecular Insight Pharmaceuticals Quarterly Scientific Meeting Cambridge, MA	“Imaging Bacterial Infection with Radiolabeled FIAU: an Update”
11/18/06	University of Buffalo Molecular Imaging Symposium	“Translational Molecular Imaging for Oncology”
12/14/06	Johns Hopkins University Department of Radiology Grand Rounds	“Translational Molecular Imaging for Oncology”
02/05/07	Department of Energy Awake Animal PI Meeting Boston, MA	“Molecular Imaging of Awake Animals”
02/28/07	Yale School of Medicine Department of Radiology New Haven, CT	“Translational Molecular Imaging for Oncology and Neuroscience”
03/20/07	Johns Hopkins Phenotyping Symposium Department of Molecular and Comparative Pathobiology	“Small Animal Imaging”
03/25/07	Carolina Radiological Society Chapel Hill, NC	“Molecular Imaging: an Overview”
04/20/07	American Society of Functional Neuroradiology Orlando, FL	“Molecular Imaging: an Overview”
04/20/07	American Society of Functional Neuroradiology Orlando, FL	“Molecular Neuroimaging: from Conventional to Emerging Technologies”
06/01/07	54 th Annual Meeting Society of Nuclear Medicine Neuroimaging Categorical Course	“Molecular Neuroimaging from Conventional to Emerging Technologies”
06/02/07	54 th Annual Meeting Society of Nuclear Medicine Opening Plenary	“The Molecular Imaging Center of Excellence”
06/14/07	European Society for	“Translational Molecular

	Molecular Imaging Naples, Italy	Imaging for Oncology”
06/25/07	Goldman Foundation Johns Hopkins University Department of Pathology	“Translational Molecular Imaging for Oncology”
09/06/07	IMPACT Department of Defense Atlanta, GA	“PSMA-based PET Ligands for Prostate Cancer”
09/08/07	Society for Molecular Imaging Preconference Symposium Providence, RI	“Molecular Neuroimaging: from Conventional to Emerging Techniques”
09/18/07	Imaging of Infectious Disease NIH Workshop Bethesda, MD	“Imaging of Infection with Radiolabeled FIAU”
09/19/07	Johns Hopkins University Bioinvestor Conference Baltimore, MD	“Molecular Imaging in Drug Development”
09/26/07	Advanced Neuroimaging Techniques Martinos Symposium Cambridge, MA	“Translational Molecular Imaging”
09/26/07	Advanced Neuroimaging Techniques Martinos Symposium Cambridge, MA	“Molecular Neuroimaging: from Conventional to Emerging Techniques”
10/08/07	Molecular Imaging Program at Stanford Stanford, CA	“Translational Molecular Imaging for Oncology”
10/20/07	IMMPC-3 Conference Medicinal Chemistry Antalya, Turkey	“Translational Molecular Imaging for Oncology”
11/14/07	American College of Veterinary Pathology Savannah, GA	“Translational Molecular Imaging: Focus on Radiopharmaceuticals”

11/20/07	University of Virginia Focus on Imaging Charlottesville, VA	“Translational Molecular Imaging for Oncology”
11/25/07	Radiological Society of North America Refresher Course Chicago, IL	“What is Molecular Imaging?”
12/05/07	Johns Hopkins University Neurosurgery Grand Rounds Baltimore, MD	“Translational Molecular Imaging for Oncology”
12/13/07	Tumor Microenvironmental Network NCI Bethesda, MD	“Translational Molecular Imaging for Oncology”
12/17/07	Washington University Molecular Imaging Center St. Louis, MO	“Translational Molecular Imaging for Oncology”
01/21/08	International Life Sciences Institute 2008 Annual Meeting Rio Grande, PR	“Translational Molecular Imaging for Oncology: Focus on Radiopharmaceuticals”
02/04/08	Hematology Grand rounds Johns Hopkins University Baltimore, MD	“Translational Molecular Imaging for Oncology”
02/06/08	Emory University Visiting Professor Atlanta, GA	“Translational Molecular Imaging for Oncology” “Neuromolecular Imaging: From Conventional to Emerging Techniques” “Classics of CNS Differential Diagnosis”
02/19/08	Johns Hopkins Phenotyping Symposium Department of Molecular and Comparative Pathobiology	“Small Animal Imaging: Focus on Translation”

02/22/08	Duke Comprehensive Cancer Ctr. First International Workshop On Focal Therapy and Imaging of Prostate Cancer Durham, NC	“PSMA-based Imaging Agents for Prostate Cancer”
03/05/08	Johns Hopkins University Sidney Kimmel Cancer Center Translational Research Conference Baltimore, MD	“Translational Molecular Imaging for Oncology”
03/15/08	Johns Hopkins University Nuclear Oncology: from Genotype to Phenotype to Targeted Therapy Baltimore, MD	“New Ligands and Approaches to Radionuclide Imaging and Therapy”
03/19/08	American Association for Cancer Research Advances in Cancer Research: from the Laboratory to the Clinic Dead Sea, Jordan	“Translational Molecular Imaging for Oncology”
03/29/08	University of Florida College of Medicine Molecular Medicine: Applying Current and Emerging Technologies Orlando, FL	“Translational Molecular Imaging for Oncology”
06/14/08	SNM Annual Meeting 2008 Categorical Course New Orleans, LA	“What is Molecular Imaging?”
06/29/08	American Society of Nuclear Cardiology Annual Meeting 2008 Annapolis, MD	“SNM Efforts in Molecular Imaging?”
07/22/08	SNM Advocacy Task Force Washington, DC	“Molecular Imaging 101”
08/18/08	American Chemical Society Fall 2008 Annual Meeting Philadelphia, PA	“Translational Molecular Imaging for Oncology: Focus on Prostate Cancer and

		Lymphoma”
08/22/08	University of Texas, Southwestern Department of Radiology Dallas, TX	“Translational Molecular Imaging for Oncology”
09/16/08	National Institute of Bioimaging and National Advisory Council Meeting Bethesda, MD	“Prostate-specific membrane antigen (PSMA): a Versatile Target for Molecular Imaging”
09/17/08	Pfizer Global Research Groton, CT	“Translational Molecular Imaging”
09/18/08	Seventh Annual International NeuroOncology Updates Baltimore, MD	“Translational Molecular Imaging for Oncology”
09/26/08	Vanderbilt University Institute for Imaging Science Founders’ Lecture	“Translational Molecular Imaging for Oncology”
10/07/08	Johns Hopkins University Breast Cancer Program Lecture Series Baltimore, MD	“Translational Molecular Imaging for Oncology”
10/27/08	Ceders Sinai Medical Center Department of Radiology Los Angeles, CA	“Translational Molecular Imaging”
11/07/08	Bayer Healthcare – Bayer Schering Pharma Life Sciences Workshop Series Berlin, Germany	“Translational Molecular Imaging for Oncology”
11/12/08	University of Michigan Medical School Fifth Annual Biomedical Research Symposium Image Guided Therapy Ann Arbor, MI	“Translational Molecular Imaging for Oncology”
11/13/08	Johns Hopkins Alliance for Science and Technology Development Program Baltimore, MD	“ABCG2 Probe Discovery <i>via</i> Bioluminescence”

11/17/08	Johns Hopkins University Department of Pathology Grand Rounds Baltimore, MD	“Translational Molecular Imaging for Oncology”
11/19/08	University of Cambridge GE Healthcare Symposium Cambridge, England	“Translational Molecular Imaging for Oncology”
01/12/09	AdMeTech Foundation Consensus Conference on Prostate Imaging Bethesda, MD	“Near-term Approaches to Molecular Imaging of Prostate Cancer”
01/21/09	Virginia Commonwealth University Massey Cancer Center Richmond, VA	“Translational Molecular Imaging for Oncology”
01/26/09	University of Pennsylvania Department of Pharmacology Philadelphia, PA	“Molecular Imaging: From Probe Development to Clinical Translation”
03/03/09	Johns Hopkins Phenotyping Symposium Department of Molecular and Comparative Pathobiology	“Small Animal Imaging”
03/06/09	Johns Hopkins University Department of Rheumatology Grand Rounds Baltimore, MD	“Translational Molecular Imaging”
03/14/09	Advances in Whole Body Fusion Imaging: PET/CT and SPECT/CT Johns Hopkins University Baltimore, MD	“New Radiopharmaceuticals for Infection and Cancer”
03/15/09	Eisai Pharmaceuticals, Inc. Baltimore, MD	“PSMA/GCPII Imaging”
03/30/09	PsychoGenics, Inc. Tarrytown, NY	“PSMA/GCPII Imaging”
03/16/09	Massachussetts General Hospital	“Translational Molecular

	Department of Radiology Radiology Grand Rounds Boston, MA	Imaging” “Classics in CNS Differential Diagnosis”
03/17/09	Brigham and Women’s Hospital Department of Radiology Radiology Grand Rounds Boston, MA	“Translational Molecular Imaging” “Classics in CNS Differential Diagnosis”
04/03/09	University of Pittsburgh and Carnegie Mellon University Symposium on Recent Advances In Cellular and Molecular Imaging Pittsburgh, PA	“Molecular Imaging for Oncology”
04/13/09	UCLA California Nanosystems Institute Department of Molecular Pharmacology Crump Institute for Molecular Imaging Los Angeles, CA	“Translational Molecular Imaging for Oncology”
04/17/09	American Association for Clinical Chemistry 41 st Annual Oak Ridge Conference Frontiers in Clinical Diagnostics Baltimore, MD	“Translational Molecular Imaging for Oncology”
04/20/09	Johns Hopkins University Department of Radiation Oncology Grand Rounds Baltimore, MD	“Molecular Imaging for Oncology”
05/12/09	Association of University Radiologists Molecular Biology for Imagers Course Arlington, VA	“Molecular Theranostics II: a Chemist’s Perspective”
05/19/09	University of Pennsylvania Department of Radiology Radiology Grand Rounds Philadelphia, PA	“Resident Cases” “Preparing to Write a Grant” “Translational Molecular Imaging”
05/25-28/09	Instituto de Pesquisas Energeticas e Nucleares Conferencia Integrada sobre	Five lectures related to molecular imaging - preclinical and translational

Tecnologia PET/CT
Sao Paulo, Brazil

06/30/09	Brigham and Women's Hospital Harvard Medical School Annual Radiology Research Retreat CIMIT Forum	"How to Establish a Molecular Imaging Program" "Molecular Imaging of Prostate Cancer: Focus on Radiopharmaceuticals"
08/20/09	Memorial Sloan-Kettering Cancer Center Department of Radiology New York, NY	"Molecular Imaging for Oncology"
10/02/09	National Cooperative Cancer Network 2 nd Annual Forum Innovative Diagnostics and Therapeutics in Cancer Care New York, NY	"Novel Imaging Techniques for Central Nervous System Cancers"