Curriculum Vitae

ERIK S MITTRA, MD, PhD

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	APPOINTMENTS
8/2012—	Stanford University Medical Center
	• Clinical Assistant Professor, Department of Radiology, Division of Nuclear Medicine
2009-2012	Stanford University Medical Center
	Clinical Instructor, Department of Radiology, Division of Nuclear Medicine

	Education	
2008-2009	Stanford University Medical Center	
	• Fellow, Department of Radiology, Division of Nuclear Medicine	
2006-2008	Stanford University Medical Center	
	• Resident, Department of Radiology, Division of Nuclear Medicine	
2005-2006	Stony Brook University Medical Center	
	• Internship, Department of Internal Medicine	
1996-2005	Stony Brook University MSTP Program	
	• MD, PhD in Biomedical Engineering, MS in Anatomical Sciences	
1992-1996	University of California at Berkeley	
	• BS in Molecular & Cell Biology, BA in Anthropology	

	Academic Honors & Awards
2013	2 nd Place Nucl. Onc. Council Young Investigator Award, SNM Annual Meeting (senior author)
2013	Travel Award, SNM Annual Meeting (co-author)
2012	Technologist Abstract Award, 37th Annual Western Regional SNM Meeting (senior author)
2012	3rd Place Technologist Oral Presentation, SNM Annual Meeting (senior author)
2012	2 Travel Awards, SNM Annual Meeting (senior author)
2012	Best Essay Award, ACNM/SNM Mid-Winter Meeting (senior author)
2011	3rd Place Nucl. Onc. Council Young Investigator Award, SNM Annual Meeting (senior author)
2009	Image of the Year, Journal of Nuclear Medicine (co-author)
2008	95% score on Nuclear Medicine In-service Examination
2007	Radiological Society of North America Trainee Research Prize (co-author)
2007	Co-winner of the Norman D. Poe Memorial Scholarship Award for Outstanding In-Training
	Oral Abstract at the 32 nd Annual Western Regional Society of Nuclear Medicine Meeting
2007	Chief Nuclear Medicine Resident for 2007-2008
2004	Graduate Council Commendation to Distinguished Graduate Student
2004	Sigma Xi Award for Excellence in Research
2003	1st Place Poster at the 29th Annual IEEE Northeast Bioengineering Conference
1996	McCowen Prize for most outstanding graduating senior in anthropology

	Professional Memberships, Certification and Licensure
2012— 2009— 2008— 2007—	Radiography X-ray Supervisor and Operator, California Dept. of Public Health (expires 10/31/2013) Fluoroscopy X-ray Supervisor and Operator, California Dept. of Public Health (expires 8/31/2013) American Board of Nuclear Medicine Certification (expires 11/2018) California DEA Certificate (expires 1/31/2014)
2007— 2007— 2006—	California Medical License (No. A100162, expires 8/31/2012) Western Regional Society of Nuclear Medicine Society of Nuclear Medicine

2006—	Radiological Society of North America
2000-2004	Orthopaedic Research Society
2000-2004	National Osteoporosis Foundation
1995-1998	American Association of Physical Anthropologists

	Academic & Community service
2013—	Elected a Board Member of the SNNMI Committee on Membership
2013—	Elected the Intern of the SNNMI Correlative Imaging Council
2013—	Elected Secretary-Treasurer of the Northern California Chapter of the SNNMI
2012—	Member of Targeted Radiotherapy Working Group of the SNMMI Committee on Outreach
2012—	Faculty reviewer for Stanford Medical School Admissions Committee
2012—	Faculty mentor for MedScholars Research Program for Stanford medical students
2012—	Head of DEXA imaging, Division of Nuclear Medicine, Stanford Hospital and Clinics
2012—	Director of CLIA, Division of Nuclear Medicine, Stanford Hospital and Clinics
2012—	Member of Stanford Radiology CE/ACF Promotions and Appointments Committee
2010—	Member of SNMMI Clinical Trials Network Trial Design Committee
2010—	Faculty mentor for the Stanford Immersion in Medicine Series (SIMS) for undergraduate students
2010—	Rebuilding Together volunteer: Helping rebuild homes for underprivileged familes in local area
2009—	Informal mentor for high school and college students interested in medicine
2009—	REI volunteer: Various community cleanup activities

		GRANTS
2010—	NIH Loan Repayment Program Gran	ıt

2004, 2003	Sigma Xi Travel Award
2003, 2002	Coulter Foundation Travel Award
2003	Paleoanthropology Society Travel Award
2003	IEEE Engineering in Medicine and Biology Travel Award
2002	National Osteoporosis Foundation Mazeness Summer Fellowship
1996	NIH Medical Scientist Training Program (MSTP) Fellowship

Major Prospective Research Studies at Stanford

Division of Nuclear Medicine

- Utility of FDG PET/CT for the Evaluation of Myofascial Pain Syndrome.
 - Status: Recruiting
 - Role: Principal Investigator. Co-PI is Dr. Sean Mackey from Anesthesiology/Pain Management.

Division of Nuclear Medicine

- A multi-centre, stratified, open, randomized, comparator-controlled, parallel-group phase III study comparing treatment with ¹⁷⁷Lu-DOTA⁰-Tyr³-Octreotate to Octreotide LAR in patients with inoperable, progressive, somatostatin receptor positive, midgut carcinoid tumours.
 - Status: Awaiting start from sponsor.
 - Role: Principal Investigator. Co-PI is Dr. Pam Kunz from GI Oncology.

Division of Nuclear Medicine

- A Pilot Study to Determine Radioiodide Accumulation and Dosimetry in Breast Cancers Using I-124 PET/CT.
 - Status: Closed to new recruitement; analyzing results.
 - Role: Co-PI and primary clinical lead for NM. PI is Dr. Irene Wapnir from Surgery (Breast Oncology).

Division of Nuclear Medicine

• Open-Label Study for an Exploration of Tumor Accumulation and Safety and Tolerability of the 18F Labeled PET/CT (Positron Emission Tomography / Computed Tomography) Tracer BAY 94-

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9392 Following a Single Intravenous Administration of 300 MBq (Corresponding to \leq 100 mg Total Quantity) in Patients with Prostate Cancer or Other Malignant Tumors.

- Status: Complete, with 30/30 participants enrolled. Data being published.
- Role: Co-PI and primary clinical lead. PI is Dr. Sam Gambhir from Radiology.

Division of Nuclear Medicine

2009-2010

- Biodistribution and Safety of the PET Probes [18F]FPRGD2 and [18F]FPRGD2.
- Status: Complete, with 5/5 participants enrolled. Data published.
- Role: Co-PI and primary clinical lead. PI is Dr. Sam Gambhir from Radiology.

Previous Research Experience	
2006-2009	Division of Nuclear Medicine (Stanford University, CA) • Numerous retrospective clinical and basic science research projects in nuclear medicine (please see publications).
2004-2005	Department of Anatomical Sciences (Stony Brook University, NY) • Research on the function-structure relationship of the hominid distal phalanx.
2001-2004 1998-2000	 Department of Biomedical Engineering (Stony Brook University, NY) Ph.D. research on the mechanics and improved diagnostics of trabecular fragility fractures. M.S. thesis on the material properties of mechanically stimulated trabecular sheep bone.
1998-2000	Department of Emergency Medicine (Stony Brook University, NY) • Research on impact pressures of irrigation devices and their effects on tissue and healing.
1997-1999	Department of Anatomical Sciences (Stony Brook University, NY) • Research on grip strength, hand morphology, and biomechanics in primates.
1996	 Primate Foundation of Arizona (Mesa, AZ) Research on environmental enrichment and infant-to-group socialization in chimpanzees.
1995-1996	Field Station for Behavioral Research (U.C. Berkeley, CA) • Bachelors honors thesis on adult male-infant interactions among captive Hanuman langurs.
1995	Ramnagar Monkey Research Project (Ramnagar, Nepal) • Research on hand preference in a troop of 30 wild Hanuman langurs.
1994	 Genentech, Inc. (South San Francisco, CA) Summer research internship on immunoflourescence staining of proteins and the development of a staining protocol for flow cytometry.

CURRENT LECTURES BY COURSE

2009—

Radiology Core Lecture Series (Dept. of Radiology, Stanford University Medical Center, CA)

- PET/CT: Problems and artifacts
- PET/CT: Primary cancers of the head & neck
- NM case review
- Neuroendocrine tumors: Octreotide, MIBG, and non-specific SPECT tracers
- Scintimammography: Sestamibi, FDG-PEM, and others
- Liver and hepatobiliary scintigraphy
- GU scintigraphy: Evaluation of renal function
- GU scintigraphy: Evaluation of the renal cortex and VCUG
- GFR and related problems

Radiology 301A Clerkship (School of Medicine, Stanford University, CA)

2009—

- Introduction to nuclear medicine
- Nuclear medicine therapies
- Nuclear cardiology
- Urgent studies in nuclear medicine

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Other

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2010—	• Nuclear Cardiovascular Imaging (Dept. of Medicine, Stanford University Medical Center, CA)
2009—	• Radiology board review lectures (Dept of Radiology, Stanford University Medical Center, CA)
2010—	• Imaging of the endocrine system (Primary Care Associates Program, Stanford University, CA)

	Previous Teaching Experience	
2006—	Division of Nuclear Medicine (Stanford University, CA) • Various lectures on nuclear medicine to medical students, nuclear medicine and radiology residents, and cardiology fellows (see list of lectures in next section).	
2002-2003	Women in Science & Engineering (Stony Brook University, NY) • Project director for a six-week course (including lab) on "Mechanics in Biology" for freshman undergraduate women interested in science/engineering.	
1997-1999, 2003	Department of Anatomical Sciences (Stony Brook University, NY) • Teaching assistant and guest lecturer for medical, allied health, and undergraduate gross anatomy students.	
1995	Department of Integrative Biology (U.C. Berkeley, CA)Teaching assistant for laboratory section of undergraduate biology course.	
1993-1996	Student Learning Center (U.C. Berkeley, CA)Group and individual tutor in anthropology as well as administrative roles of hiring and training of new tutors.	

INVITED TALKS

- 1. Scintimammography and PEM. World Federation of Nuclear Medicine and Biology Congress. Cancún, México. August 2014.
- 2. Hypoxia Imaging. Western Regional Society of Nuclear Medicine. Monterey, CA. October 2013.
- 3. PRRT Case Presentation. North American Neuroendocrine Tumor Society. October 2013.
- 4. Novel tracers for imaging angiogenesis and glutamate. *Society of Nuclear Medicine of Puerto Rico*. San Juan, PR. October 2013.
- 5. Current and future of targeted radionuclide therapies. *Society of Nuclear Medicine of Puerto Rico*. San Juan, PR. October 2013.
- 6. Breast-Specific Gamma Imaging (BSGI) and Positron Emission Mammography (PEM). *Society of Nuclear Medicine*. Vancouver, BC. June 2013.
- 7. Imaging and Therapy for Lymphoma, How Does It Work? Society of Nuclear Medicine. Vancouver, BC. June 2013.
- 8. Novel Radionuclide Therapies in Oncology: Promising Area in the Field of Nuclear Medicine. *American College of Nuclear Medicine / Mid-Winter Society of Nuclear Medicine Meeting*. New Orleans, LO. January 2013.
- 9. Bone PET Imaging: NaF PET in Oncology. Radiological Society of North America. Chicago, IL. December 2012.
- 10. Comparative Imaging of Metastases. Western Regional Society of Nuclear Medicine. Monterey, CA. October 2012.
- 11. Beyond 18F FDG and 18F NaF PET/CT: Novel PET Radiopharmaceuticals to Guide the Management of Skeletal Cancers. *Society of Nuclear Medicine*. Miami, FL. June 2012.
- 12. Oncology Applications of SPECT/CT. Society of Nuclear Medicine. Miami, FL. June 2012.
- 13. How Different PET Response Criteria Compare to Each Other in the Clinical Setting (2012). ASCO. Chicago, IL. June 2012.
- 14. PET Imaging in Lung Cancer (2011). Stanford Department of Radiation Oncology. Stanford, CA.
- 15. Practical Considerations for Radioactive Iodine Therapy for Thyroid Cancer (2011). *ThyCa Workshop*. Los Angeles, CA.
- 16. The Ins and Outs of Nuclear Imaging for Thyroid Cancer (2011). ThyCa Workshop. Los Angeles, CA.
- 17. Functional Imaging in Colon Carcinoma (2011). Society of Nuclear Medicine of Puerto Rico. San Juan, PR.
- 18. The Role of PET/CT in the Diagnosis and Follow-up of Gastrointestinal Stromal Tumors (GIST) (2011). Society of Nuclear Medicine of Puerto Rico. San Juan, PR.
- 19. Prostate Imaging: Current Practice and Novel Modalities (2011). Stanford Department of Medicine, Division of GU Oncology. Stanford, CA.

- 20. SPECT/CT in the Management of Cancer (2011). Society of Nuclear Medicine. San Antonio, TX.
- 21. Practical Issues in the use of Bexxar & Zevalin Radioimmunotherapy (2011). *Society of Nuclear Medicine*. San Antonio, TX.
- 22. Optimizing Metrics for Interpretation: 3D Volumetric SUV and Total Body Tumor Burden (2010). *Stanford PET/CT Symposium*. Las Vegas, NV.
- 23. Common PET/CT Protocoling Issues (2010). Stanford PET/CT Symposium. Las Vegas, NV.
- 24. Stanford PET/CT Case Conference: Best Cases from the Past Year (2010). *Stanford PET/CT Symposium*. Las Vegas, NV.
- 25. FDG PET/CT for Primary Head & Neck Cancers (2009). Northern California Chapter of the Western Regional Society of Nuclear Medicine. Pleasanton, CA.
- 26. Clinical Nuclear Brain Imaging (2009). Stanford Stampede. Stanford, CA.

GRAND ROUNDS

EARLY WORK & SERVICE

- 1. Practical Radiation Considerations in Nuclear Medicine (2011). Stanford Nuclear Medicine.
- 2. Molecular Imaging of Glioblastoma: From Bench to Bedside (2010). Stanford Nuclear Medicine.
- 3. FDG PET/CT in Lymphoma (2009). Stanford Nuclear Medicine.
- 4. Skull Base Neoplasms and the Role of PET/CT (2008). Stanford Nuclear Medicine.
- 5. Molecular Imaging of Bone (2007). Stanford Nuclear Medicine.

1994-1996

2003-2004	Kaplan (Long Island, NY) • Instructor for GRE course.
1998-2000	Department of Emergency Medicine (Stony Brook University, NY) • Co-coordinator for a viral meningitis drug trial.
1997-1999	 Medical School Admissions Committee (Stony Brook University, NY) One of four student representatives for medical school admissions committee.
1997-1998	 International Health Interest Group (Stony Brook University, NY) President of society to encourage non-traditional health occupations.
	Anthropology Undergraduate Association (U.C. Berkeley, CA)

PEER REVIEWED MANUSCRIPTS

• President of organization for students interested in all aspects of anthropology.

- 1. **Mittra E**, Davidzon G. Diagnosis Please Case: Hodgkin Lympoma with associated paraneoplastic hypercalcemic pancreatits. *Radiology*. In press.
- 2. **Mittra E**, Fan-Minogue H, Lin F, Karamchandani J, Sriram V, Han M, Gambhir SS (2013). Preclinical efficacy of the anti-hepatocyte growth factor antibody ficlatuzumab in a mouse brain orthotopic glioma model evaluated by bioluminescence, PET, and MRI. *Clin Cancer Res.* Epub ahead of print.
- Iagaru A, Young P, Mittra E, Dick DW, Herfkens R, Gambhir SS (2013). Pilot Prospective Evaluation of 99mTc-MDP Scintigraphy, 18F NaF PET/CT, 18F FDG PET/CT and Whole-Body MRI for Detection of Skeletal Metastases. Clin Nucl Med. 38(7):e290-6.6
- 4. Qin Y-X, Lin W, **Mittra E**, Xia Y, Cheng J, Judex S, Rubin C, Muller R (2013). Prediction of trabecular boneq ualitative properties using scanning quantitative ultrasound. *Acta Astronautica*. 92:79–88.
- Iagaru A, Mittra E, Mosci C, Dick DW, Sathekge M, Prakash V, Iyer V, Lapa P, Isidoro J, de Lima JM, Gambhir SS (2013). Combined 18F-Fluoride and 18F-FDG PET/CT Scanning for Evaluation of Malignancy: Results of an International Multicenter Trial. J Nucl Med. 54(2):176-83.
- 6. Baek S, Choi CM, Ahn SH, Lee JW, Gong G, Ryu JS, Oh SJ, Bacher-Stier C, Fels L, Koglin N, Hultsch C, Schatz CA, Dinkelborg LM, **Mittra ES**, Gambhir SS, Moon DH (2012). Exploratory clinical trial of (4S)-4-(3-[18F]fluoropropyl)-L-glutamate for imaging xC- transporter using positron emission tomography in patients with non-small cell lung or breast cancer. *Clinical Cancer Research*. 18(19): 5427-5437.

- 7. Kircher MF, de la Zerda A, Jokerst JV, Zavaleta CL, Kempen PJ, **Mittra E**, Pitter K, Huang R, Campos C, Habte F, Sinclair R, Brennan CW, Mellinghoff IK, Holland EC, Gambhir SS (2012). A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. *Nature Medicine*. 18(5):829-34.
- 8. Lin FI, Rao JE, **Mittra ES**, Nallapareddy K, Chengapa A, Dick DW, Gambhir SS, Iagaru A (2012). Prospective comparison of combined F-18-FDG and F-18-NaF PET/CT vs. F-18-FDG PET/CT imaging for detection of malignancy. *Eur J Nucl Med Mol Imaging*. 39(2):262-270.
- 9. Iagaru A, **Mittra E**, Dick DW, Gambhir SS. Prospective Evaluation of (99m) Tc MDP Scintigraphy, (18) F NaF PET/CT, and (18) F FDG PET/CT for Detection of Skeletal Metastases (2012). *Molecular Imaging and Biology*. 14(2):252-9.
- Chin FT, Shen B, Liu S, Berganos RA, Chang E, Mittra E, Chen X, Gambhir SS (2011). First Experience with Clinical-Grade [(18)F]FPP(RGD) (2): An Automated Multi-step Radiosynthesis for Clinical PET Studies. Molecular Imaging and Biology. 14(1):88-95.
- Mittra E, Goris M, Iagaru A, Kardan A, Burton L, Berganos R, Chang E, Liu S, Shen B, Chin F, Chen X, Gambhir SS (2011). Pharmacokinetic and dosimetry studies of [18F]FPPRGD2: A PET radiopharmaceutical for imaging α_vβ₃ integrin levels. Radiology. 260(1):182-91.
- 12. Mittra E, Leung A, Iagaru, A (2011). Case 166: Metastatic pulmonary artery sarcoma. Radiology. 258(2):645-8.
- 13. Iagaru A, **Mittra ES**, Gambhir SS (2010). FDG PET/CT in cancers of the head and neck: What is the definition of whole body scanning? *Molecular Imaging and Biology*. 13(2):362-7.
- 14. Iagaru A, **Mittra ES**, Knox SJ, Goris ML (2009). 131I-Tositumomab (Bexxar®) vs. 90Y-Ibritumomab (Zevalin®) therapy of low grade refractory/relapsed non-Hodgkin lymphoma. *Molecular Imaging and Biology*. 12(2):198-203.
- 15. **Mittra E**, El-Maghraby T, Rodriguez CA, Quon A, McDougall IR, Gambhir SS, Iagaru A (2009). Efficacy of ¹⁸F-FDG PET/CT in the evaluation of patients with recurrent cervical carcinoma. *Eur J Nucl Med Mol Imaging*. 36(12):1952-9.
- 16. **Mittra E**, Quon A (2009). Positron emission tomography/computed tomography: the current technology and applications. Radiology Clinics of North America. 47(1):147-60.
- 17. **Mittra E**, McDougall, IR (2009). Cutaneous graft-versus-host disease on Tc-99m leukocyte scintigraphy. *Clinical Nuclear Medicine*. 34(12):894-5.
- 18. Iagaru A, **Mittra ES**, Yaghoubi S, Dick DW, Quon A, Goris ML, Gambhir SS (2009). Novel strategy for a cocktail 18F-Fluoride and 18F-FDG PET/CT scan for evaluation of malignancy: Results of the Pilot-Phase Study. *Journal of Nuclear Medicine*. 50(4):501-505.
- 19. **Mittra ES**, Niederkohr RD, Rodriguez C, El-Maghraby T, McDougall IR. Uncommon causes of thyrotoxicosis. Journal of Nuclear Medicine. 2008;49(2)265-78.
- 20. Iagaru A, **Mittra ES**, McDougall IR, Quon A, Gambhir SS (2008). 18F FDG PET/CT evaluation of patients with ovarian carcinoma. *Nucl Med Commun*. 29(12):1046-51.
- 21. **Mittra E**, Rubin C, Qin Y-X (2008). Evaluation of trabecular mechanical and microstructural properties in human calcaneal bone of advanced age using mechanical testing, μCT, and DXA.. *Journal of Biomechanics*. 41(2):368-75.
- 22. **Mittra E**, Segall G (2007). Concurrent metabolic and osseous metastatic disease on a Tc99m-MDP bone scan. *European Journal of Nuclear Medicine and Molecular Imaging*. 34(12):2150.
- 23. **Mittra E**, Vasanawala M, Niederkohr R, Rodriguez C, Segall G (2007). A case of three synchronous primary tumors demonstrated by F-18 FDG PET. *Clinical Nuclear Medicine*. 32(8):666-7.
- 24. **Mittra E**, McDougall IR (2007). Recurrent silent thyroiditis: a report of four patients and review of the literature. *Thyroid*. 17(7):671-5.
- 25. **Mittra ES**, Smith HF, Lemelin P, Jungers WL (2007). Comparative morphometrics of the primate apical tuft. *American Journal of Physical Anthropology*. 134(4):449-459.
- 26. **Mittra E**, Akella S, Qin Y-X (2006). The effects of embedding material, loading rate and magnitude, and penetration depth in nanoindentation of trabecular bone. *Journal of Biomedical Materials Research Part A*. 79(1):86-93.
- 27. Lin W, **Mittra E**, Qin Y-X (2006). Determination of ultrasound phase velocity in trabecular bone using time dependent phase tracking technique. *Journal of Biomechanical Engineering*. 128(1):24-9.
- 28. **Mittra E**, Rubin C, Qin Y-X (2005). Interrelationship of trabecular mechanical and microstructural properties in sheep trabecular bone. *Journal of Biomechanics*. 38(6):1229-1237.
- 29. **Mittra ES**, Singer AJ, Bluestein D, Hollander JD (2003). Simulated wound irrigation impact pressures. *Israeli Journal of Trauma, Critical Care, and Emergency Medicine*. 3(1):9-16.

- 30. Rubin, C, Turner AS, Muller R, **Mittra E**, McLeod K, Lin W, Qin Y-X (2002). Quantity and quality of trabecular bone in the femur are enhanced by a strongly anabolic, non-invasive mechanical intervention. *Journal of Bone and Mineral Research*. 17(2): 349-357.
- 31. **Mittra ES**, Fuentes AJ, McGrew WC (1997). Lack of hand preference in wild Hanuman langurs (*Presbytis entellus*). *American Journal of Physical Anthropology*. 103:455-461.

MANUSCRIPTS IN PROGRESS

- 1. **Mittra E**, Iagaru A. Interesting Image: Metastatic TB with bone and liver involvement on 18F-FDG PET/CT. In preparation.
- 2. Mittra ES. Absent FDG uptake with PET/CT in metastatic, biopsy-proven Leydig-cell tumor. In preparation.
- 3. Mittra E. Variability of radiographic and scintigraphic findings of fibrous dysplasia in one patient. In preparation.
- 4. **Mittra ES**, Jungers WL. Comparison of Neandertal and modern human distal phalangeal structure: Morphometrics and microstructure. In preparation.
- 5. Davidzon G, Advani R, Iagaru A, Quon A, Gambhir SS, **Mittra E**. Comparison of five different imaging response criteria in patients with Hodgkin and non-Hodgkin lymphoma using PET/CT. In preparation.
- Mittra E, Fan-Minogue H, Lin F, Sriram V, Medicherla S, and Gambhir SS. Preclinical efficacy of the anti-HGF antibody SCH-105 in a U87 MG-Luc2 mouse orthotopic model evaluated by bioluminescence, 18F-FLT smallanimal PET, and micro-MRI. Submitted to Clinical Cancer Research.
- 7. **Mittra E**, Koglin N, Mosci C, Kumar M, Hoehne A, Keu KV, Iagaru A, Mueller A, Berndt M, Schmitt-Willich H, Gekeler V, Friebe M, Dinkelborg LM, Stephens AW, Fels LM, Bacher-Stier C, Moon DH, Chin FT, Gambhir SS. Preclinical and clinical evaluation of the radiopharmaceutical (4S)-4-(3-[18F]Fluoropropyl)-L-glutamate (18F-FSPG) for PET/CT imaging of brain cancer. Submitted to *Science Translational Medicine*.
- 8. Mittra ES, Mosci C, Kumar M, Keu KV, Iagaru A, Hoehne A, Koglin N, Mueller A, Berndt M, Schmitt-Willich H, Gekeler V, Friebe M, Dinkelborg LM, Stephens AW, Fels LM, Bacher-Stier C, Moon DH, Chin FT, Gambhir SS. Chin, Sanjiv S. Gambhir. Pilot evaluation of the radiopharmaceutical (4S)-4-(3-[18F]Fluoropropyl)-L-glutamate (FSPG) for PET/CT imaging of patients with head and neck cancer, colorectal cancer, or non-Hodgkin lymphoma. In preparation for *Journal of Nuclear Medicine*.
- 9. **Mittra E**, Moon DH, Mosci C, Iagaru, A, Hoehne A, Berganos R, Fels LM, Bacher-Stier C, Chin FT, Gambhir SS. Sudies of the 18F L-glutamate derivative BAY 94-9392 in prostate cancer patients: A novel radiopharmaceutical for PET imaging. In preparation.
- 10. Mosci C, Kumar M, Koglin N, Fels L, Bacher-Stier C, Smolarz K, Schwaiger M, Gambhir SS, **Mittra E**. Characterization of physiological 18F-FSPG uptake in healthy volunteers: Kinetics and biodistribution. In preparation for *Radiology*.

BOOK CHAPTERS & REVIEWS

- 1. **Mittra E** (2013). Targeted radionuclide therapies. In preparation.
- 2. Mittra E, Iagaru, A (2013). Radionuclide therapies for bone metastases. In preparation.
- 3. Mittra E, Iagaru, A (2010). FDG PET and PET/CT for evaluating primary bone tumors. PET Clinics.
- 4. Mittra E, Iagaru E (2010). Novel techniques in breast imaging. US Radiology. 1(1):47-55.
- 5. **Mittra E**, Yaghoubi S, Qin Y-X (2008). MicroPET imaging of small animals. In: L. Kwok-Sui, L. Qin, W-H. Cheung (Eds.) *The Protocols in Musculoskeletal Research: A Practical Manual for Laboratory Techniques*. 1st Edition. World Scientific Publishing.
- 6. Mittra E, Iagaru A, Quon A, Fischbein N (2007). Skull base neoplasms. PET Clinics. 2(4):489-510.
- 7. Mittra E, Iagaru A, Quon A, Fischbein N (2007). Skull base neoplasms. PET Clinics. 2(4):489-510.
- 8. Qin Y-X, Lin W, Xia Y, **Mittra E**, Rubin C, Müller R (2007). Non-invasive bone quality assessment using quantitative ultrasound imaging and acoustic parameters. In: L. Qin, H.K. Genant, J.F. Griffith, K.S. Leung (Eds.), *Advanced Bioimaging Technologies in Assessment of the Quality of Bone and Scaffold Materials*. 1st Edition, pp. 103-134. Springer.
- 9. Qin Y-X, **Mittra E** (2006). Bone density measurement. In: J.G. Webster (Ed.), *Encyclopedia of medical devices and instrumentation*, 2nd Edition, Volume 1, pp. 550-558. Wiley-Interscience.

Abstracts (Selected)

- 1. Keu KV, Twist C, Quon A, **Mittra ES**, Iagaru A. Semi-Quantitative Evaluation of Neuroblastoma Tumor Burden using 123I-MIBG and 18F-FDG PET/CT. Radiologic Society of North America. Chicago, IL. December 2013.
- 2. Keu KV, Lutchman G, Quon A, **Mittra ES**, Iagaru A. The Role of 99mTc-MDP Bone Scintigraphy in the Workup of Patients with Hepatocellular Carcinoma. *Radiologic Society of North America*. Chicago, IL. December 2013.
- 3. **Mittra E**, Kumar M, Mosci C, Smolarz K, Schwaiger M, Stephens A, Dinkelborg LM, Gambhir SS. Characterization of physiological 18F-FSPG uptake in healthy volunteers and comparison to 18F-FDG. *World Molecular Imaging Congress*. September 2013.
- 4. **Mittra E**, Kumar M, Mosci C, Keu KV, Iagaru A, Koglin N, Stephens A, Dinkelborg LM, Chim FT, Gambhir SS. Evaluation of the L-glutamate derivative 18F-FSPG for PET imaging of various cancer indications in patients. *World Molecular Imaging Congress*. September 2013.
- 5. Davidzon G, Mosci C, **Mittra E**, Shen B, Chin FT, Gambhir SS. Iagaru A. Biodistribution and kinetics of 18F FPPRGD2 in cancer patients. *Society of Nuclear Medicine and Molecular Imaging*. Vancouver, BC. June 2013.
- Kumar M, Mosci C, Koglin N, Stephens A, Smolarz K, Schwaiger M, Gambhir SS, Mittra E. Characterization of physiological 18F-FSPG uptake in healthy volunteers and comparison to 18F-FDG. Society of Nuclear Medicine and Molecular Imaging. Vancouver, BC. June 2013.
- 7. Kulm J, **Mittra E**, Guo HH, Witteles R, Quon A. Development of a reproducible FDG PET/CT cardiac imaging protocol for the evaluation of cardiac sarcoidosis. *Society of Nuclear Medicine and Molecular Imaging*. Vancouver, BC. June 2013.
- 8. Na SJ, **Mittra E**, Ahn H, Cho YM, Kumar M, McKenney J, Koglin N, Stephens A, Moon DH, Gambhir SS. Pilot clinical trial of (4S)-4-(3-[18F]fluoropropyl)-L-glutamate PET in patients with prostate cancer. *Society of Nuclear Medicine and Molecular Imaging*. Vancouver, BC. June 2013.
- 9. Jonathan E, **Mittra E**. Recruitment for imaging versus clinical trials: The patient perspective. *Society of Nuclear Medicine and Molecular Imaging*. Vancouver, BC. June 2013.
- 10. Keu KV, **Mittra E**, Quon A, Iagaru A. The value of post-therapy F-18 FDG PET/CT surveillance scans in the detection of recurrent nasopharyngeal carcinoma. *Society of Nuclear Medicine and Molecular Imaging*. Vancouver, BC. June 2013.
- 11. Koglin N, Mueller A, Berndt M, Schmitt-Willich H, Stephens A, Friebe M, Moon DH, **Mittra E**, Gambhir SS, Dinkelborg L (2013). PET Imaging of Glutamate/Cystine Transporter Activity in Cancer Patients. *Keystone Symposium*. Keystone Resort, CO. April 2013.
- 12. Jonathan E, **Mittra E**. Recruitment for imaging versus clinical trials: The patient perspective. *ACNM/SNM Mid-Winter Meeting*. New Orleans, LO. January 2013.
- 13. Holley D, Follett D, **Mittra E**. Accuracy of two comon FDG quantification techniques: A combined phantom and pre-clinical study. *Western Regional Society of Nuclear Medicine*. Monterey, CA. October 2012.
- 14. Akram S, **Mittra E**. Assessment of bulky mediastinal lymphoma with chest radiography, computed tomography and positron emission tomography: Comparisons across modalities, pathology, and treatment (2012). *European Association of Nuclear Medicine*. Milan, Italy.
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HOBBIES AND INTERESTS

- Road and mountain biking
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- Snowboarding, cross-country skiing
- Rock climbing
- Kayaking
- Travel