

Weibo Cai, PhD

Associate Professor

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EDUCATION

Universities Attended:

Nanjing University, P.R. China	B.S.	Chemistry	1995
University of California - San Diego	M.S.	Chemistry	2000
University of California - San Diego	Ph.D.	Chemistry	2004

Mentor: **Professor Murray Goodman**

Scholarships:

Teaching Assistant	1998-1999
Research Assistant	1999-2004

Post-Doctoral Training:

Molecular Imaging Program at Stanford (MIPS), Stanford University	2005-2008
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Mentor: **Professor Xiaoyuan (Shawn) Chen**

EMPLOYMENT HISTORY

University of Wisconsin - Madison

Associate Professor of Radiology (80%) and Medical Physics (20%)	07/2014-
Associate Professor of Biomedical Engineering (0%)	07/2014-
Assistant Professor of Radiology (80%) and Medical Physics (20%)	02/2008-06/2014
Assistant Professor of Biomedical Engineering (0%)	02/2008-06/2014

AWARDS

Vilas Distinguished Achievement Professorship Award, UW - Madison	2016-2021
Plenary Lecturer, European Association of Nuclear Medicine Annual Congress	2016
Vilas Associate Award, UW - Madison Graduate School	2014-2016
Elsevier Outstanding Reviewer for Advanced Drug Delivery Reviews	2014
1 st Annual Society of Nuclear Medicine and Molecular Imaging (SNMMI) Future Leaders Academy	2014
Siemens Novel Application Image of the Year (2 nd Place)	2013
South Central Wisconsin Affiliate of Susan G. Komen SMART Komen Champions	2013
EANM Springer Prize for Best Basic Science Paper	2013
Department of Defense Prostate Cancer Research Highlights	2013

American Cancer Society Research Scholar	2013-2017
Berson-Yalow Award, Society of Nuclear Medicine (as Senior Author)	2012
European Association of Nuclear Medicine Eckert & Ziegler Abstract Award	2012
Rusch Poster Award for Best Basic Research, UWCCC Annual Research Retreat	2012
EANM Springer Prize for Most Cited Paper	2011
Press Release, Society of Nuclear Medicine Annual Meeting	2011
Department of Defense Prostate Cancer Research Program IDEA Award	2011-2014
Top 25 Hottest Articles in Nano Today	2010
Wisconsin Partnership Program MERC New Investigator Award	2009-2012
Top 10 Molecular Imaging Research Papers from Journal of Nuclear Medicine	2007
SNM Young Professionals Committee Best Basic Science Award (1st Place)	2007
Travel Award, Joint Molecular Imaging Conference (SMI & AMI)	2007
Travel Award, Gordon Conference, Chemistry & Biology of Peptides	2006
Travel Award, Academy of Molecular Imaging Annual Conference	2006
Society of Nuclear Medicine Benedict Cassen Post-Doctoral Fellowship	2006-2008
Travel Award, Society for Molecular Imaging 5th Annual Meeting	2006
Top10 Most-Cited Articles in Nano Letters	2006
Stanford University School of Medicine Dean's Fellowship	2005-2006
Travel Award, Society for Molecular Imaging 4th Annual Meeting	2005
Model Teaching Assistant, Department of Chemistry & Biochemistry, UCSD	2003
Guanghua Scholarship, Nanjing University, P.R. China	1994
People Scholarship, Nanjing University, P.R. China	1992-1995
Freshman Scholarship, Nanjing University, P.R. China	1991
Li Gengsheng Scholarship, Huaiyin, P.R. China	1991
First Prize in Jiangsu Province Chemistry Olympiad, P.R. China	1990

AWARDS FOR TRAINEES (Total of >80)

Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI) Young Scientist Award (3 rd Prize, Dalong Ni)	2017
UW-Madison Conference Presentation Funds Student Research Travel Grant (Emily B. Ehlerding)	2017
SNMMI Alavi-Mandell Award (Haiming Luo)	2017
Workshop at the The Johns Hopkins Teaching Academy (Emily B. Ehlerding)	2017
Summer Internship Program at the National Institutes of Health (NIH), with the NCI Alliance for Nanotechnology in Cancer (Emily B. Ehlerding)	2017
Travel Award, SNMMI Annual Meeting (Dawei Jiang)	2017
Travel Award, SNMMI Annual Meeting (Dalong Ni)	2017
Travel Award, SNMMI Annual Meeting (Shreya Goel)	2017
Travel Award, SNMMI Annual Meeting (Emily B. Ehlerding)	2017
Travel Award, RSNA Annual Meeting (Shreya Goel)	2016
Travel Award, RSNA Annual Meeting (Dawei Jiang)	2016
Travel Award, RSNA Annual Meeting (Emily B. Ehlerding)	2016
Travel Grant, Novus Biologicals, LLC, Colorado, USA (Christopher G. England)	2016
UW-Madison Dissertation Completion Fellowship (Shreya Goel)	2016
Introduction to Academic Radiology for Scientists (ITARSc) Program, Radiological Society of North America (Christopher G. England)	2016
Poster Award (1 st Place), World Molecular Imaging Congress (Shreya Goel)	2016
Travel Award, World Molecular Imaging Congress (Shreya Goel)	2016
SNMMI Alavi-Mandell Award (Sixiang Shi)	2016
SNMMI Alavi-Mandell Award (Haiming Luo)	2016

NCI Graduate Student Recruiting Program (Reinier Hernandez)	2016
Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI) Young Scientist Award (2 nd Prize, Haiming Luo)	2016
SNMMI Cardiovascular Council Young Investigator Award (1 st Place, Christopher G. England)	2016
Travel Grant, SNMMI Radiopharmaceutical Sciences Council (Reinier Hernandez)	2016
UW-Madison Conference Presentation Funds Student Research Travel Grant (Reinier Hernandez)	2016
UW-Madison Conference Presentation Funds Student Research Travel Grant (Sixiang Shi)	2016
Travel Award, SNMMI Annual Meeting (Christopher G. England)	2016
Travel Award, SNMMI Annual Meeting (Shreya Goel)	2016
1 st Place Award in Poster Competition, the American Society of Mechanical Engineers (ASME) NanoEngineering for Medicine and Biology Conference (Sixiang Shi)	2016
Travel Award, ASME NanoEngineering for Medicine and Biology Conference (Sixiang Shi)	2016
NIH UW Biotechnology Training Program Fellowship (Rebecca L. Majewski)	2016 & 2018
RSNA Travel Award for Young Investigators in Molecular Imaging (Reinier Hernandez)	2015
RSNA Travel Award for Young Investigators in Molecular Imaging (Christopher G. England)	2015
The Ciência Sem Fronteiras (Science without Borders) Doctoral Scholarship, Brazil (Carolina A. Ferreira)	2015-2019
European Association of Nuclear Medicine Eckert & Ziegler Abstract Award (Reinier Hernandez)	2015
National Institutes of Health (NIH) Chemistry-Biology Interface (CBI) Training Program Fellowship (Emily B. Ehlerding)	2015-2017
Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI) Young Scientist Award (2 nd Prize, Feng Chen)	2015
SNMMI's Center for Molecular Imaging Innovation and Translation (CMIIT) Young Investigator Award (3 rd Place, Feng Chen)	2015
SNMMI Cardiovascular Council Young Investigator Award (3 rd Place, Yunan Yang)	2015
Amgen Scholars Alumni Travel Award (Reinier Hernandez)	2015
Alpha Omega Alpha Best Oral Presentation, National Medical Schools Research Day, Lebanon (Savo Bou Zein Eddine)	2015
Travel Grant, SNMMI Radiopharmaceutical Sciences Council (Haiming Luo)	2015
Travel Award, SNMMI Annual Meeting (Sixiang Shi)	2015
Travel Award, SNMMI Annual Meeting (Feng Chen)	2015
Travel Award, SNMMI Annual Meeting (Reinier Hernandez)	2015
Travel Award, SNMMI Annual Meeting (Haiming Luo)	2015
Travel Award, SNMMI Annual Meeting (Shreya Goel)	2015
SNMMI Alavi-Mandell Award (Feng Chen)	2015
UW - Madison Radiological Sciences Training Grant Postdoctoral Fellowship (Christopher G. England)	2015-2017
Grainger Wisconsin Distinguished Graduate Fellowship (Sixiang Shi)	2015
Travel Grant, SNMMI Radiopharmaceutical Sciences Council (Reinier Hernandez)	2014
Travel Grant, SNMMI Radiopharmaceutical Sciences Council (Feng Chen)	2014
Travel Grant, SNMMI Radiopharmaceutical Sciences Council (Yunan Yang)	2014
Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI) Young Scientist Award (1 st Prize, Hao Hong)	2014
SNMMI's Center for Molecular Imaging Innovation and Translation (CMIIT)	

Young Investigator Award (2 nd Place, Paul A. Ellison)	2014
SNMMI's Center for Molecular Imaging Innovation and Translation (CMIIT)	
Young Investigator Award (3 rd Place, Christina M. Lewis)	2014
NSF Graduate Research Fellowship Program - Graduate Research Opportunities	
Worldwide (GROW) International Travel Allowance (Reinier Hernandez)	2014
Travel Award, SNMMI Annual Meeting (Sixiang Shi)	2014
Travel Award, SNMMI Annual Meeting (Feng Chen)	2014
Travel Award, SNMMI Annual Meeting (Rubel Chakravarty)	2014
Travel Award, SNMMI Annual Meeting (Haiming Luo)	2014
SNMMI Bradley-Alavi Student Fellowship (Yin Zhang)	2013
Travel Award, SNMMI Annual Meeting (Hao Hong)	2013
Travel Award, SNMMI Annual Meeting (Yin Zhang)	2013
SNMMI Cardiovascular Council Young Investigator Award (3 rd Place, Hakan Orbay)	2013
SNMMI Alavi-Mandell Award (Hao Hong)	2013
Travel Award, World Molecular Imaging Congress (Hao Hong)	2013
NSF Graduate Research Fellowship (Reinier Hernandez)	2012-2015
Berson-Yalow Award from the Society of Nuclear Medicine (Hao Hong)	2012
Travel Award, Society of Nuclear Medicine Annual Meeting (Hao Hong)	2012
Travel Award, Society of Nuclear Medicine Annual Meeting (Yin Zhang)	2012
Edwin M. and Kathryn M. Larsen Fund Scholarship (Jero Bean)	2012
Society of Nuclear Medicine Radiopharmaceutical Sciences Council	
Young Investigator Award (2 nd Place, Yin Zhang)	2012
UW Medical Physics Standard Imaging Travel Award for the American	
Association of Physicists in Medicine Annual Meeting (Yin Zhang)	2012
DOD BCRP Post-Doctoral Fellowship (Yunan Yang)	2011-2014
Travel Award, Society of Nuclear Medicine Annual Meeting (Yunan Yang)	2011
Advanced Opportunity Fellowship (Reinier Hernandez)	2011
NIH UW Biotechnology Training Program Fellowship (Reinier Hernandez)	2011 & 2016
Travel Award, World Molecular Imaging Congress (Hao Hong)	2011
Travel Award, World Molecular Imaging Congress (Yin Zhang)	2011
Travel Award, World Molecular Imaging Congress (Hao Hong)	2010
Susan G. Komen for the Cure Postdoctoral Fellowship (Hao Hong)	2009-2011

SCHOLARLY PUBLICATIONS (Total Citations: > 12,000; H-index: >60)

Peer-Reviewed Articles (Total of > 220) *: Equal Contribution

From University of California - San Diego:

1. Kinberger GA, **Cai W**, Goodman M. Collagen mimetic dendrimers. Journal of the American Chemical Society, 2002, 124, 15162-15163.
2. Goodman M, **Cai W**, Smith ND. The bold legacy of Emil Fisher. Journal of Peptide Science, 2003, 9, 594-603.
3. Goodman M, **Cai W**, Kinberger GA. The new science of protein mimetics. Macromolecular Symposia, 2003, 201, 223-236.
4. **Cai W**, Kwok SW, Taulane JP, Goodman M. Metal-assisted assembly and stabilization of collagen-like triple helices. Journal of the American Chemical Society, 2004, 126, 15030-15031.
5. **Cai W**, Wong D, Kinberger GA, Kwok SW, Taulane JP, Goodman M. Facile and efficient assembly of collagen-like triple helices on a TRIS scaffold. Bioorganic Chemistry, 2007, 35, 327-337.

6. **Cai W**, Taulane JP, Sorto NA, Oganesyanyan A, Gutierrez CG, Goodman M. Scaffold assembly of collagen-like triple helices at the C-terminus. Letters in Organic Chemistry, 2007, 4, 96-101.

From Stanford University:

7. **Cai W**, Gambhir SS, Chen X. Multimodality tumor imaging targeting integrin $\alpha_v\beta_3$. BioTechniques, 2005, 39, S14-S25.
8. **Cai W**, Chen X. Anti-angiogenic cancer therapy based on integrin $\alpha_v\beta_3$ antagonism. Anti-cancer Agents in Medicinal Chemistry, 2006, 6, 407-428. (Cited > 200 times)
9. **Cai W**,* Zhang X,* Wu Y, Chen X. A thiol-reactive ^{18}F -labeling agent, N-[2-(4- ^{18}F -fluorobenzamido)ethyl]maleimide (^{18}F -FBEM), and the synthesis of RGD peptide-based tracer for PET imaging of $\alpha_v\beta_3$ integrin expression. Journal of Nuclear Medicine, 2006, 47, 1172-1180. (PMCID: PMC1704081) (Cited > 100 times)
10. **Cai W**, Shin DW, Chen K, Gheysens O, Cao Q, Wang SX, Gambhir SS, Chen X. Peptide-labeled near-infrared quantum dots for imaging tumor vasculature in living subjects. Nano Letters, 2006, 6, 669-676. (Cited > 800 times)
11. Wu Y, **Cai W**, Chen X. Near-infrared fluorescence imaging of tumor integrin $\alpha_v\beta_3$ expression with Cy7-labeled RGD multimers. Molecular Imaging and Biology, 2006, 8, 226-236. (PMCID: PMC1643841) (Cited > 100 times)
12. **Cai W**, Wu Y, Chen K, Cao Q, Tice DA, Chen X. In vitro and in vivo characterization of ^{64}Cu -labeled AbegrinTM, a humanized monoclonal antibody against integrin $\alpha_v\beta_3$. Cancer Research, 2006, 66, 9673-9681. (Cited > 100 times)
13. **Cai W**, Rao J, Gambhir SS, Chen X. How molecular imaging is speeding up anti-angiogenic drug development. Molecular Cancer Therapeutics, 2006, 5, 2624-2633. (Cited > 100 times)
14. **Cai W**,* Chen K,* Mohamedali KA, Cao Q, Gambhir SS, Rosenblum MG, Chen X. PET of vascular endothelial growth factor receptor expression. Journal of Nuclear Medicine, 2006, 47, 2048-2056. (Cited > 200 times)
15. Cao Q, **Cai W**, Li T, Yang Y, Chen K, Xing L, Chen X. Combination of integrin siRNA and irradiation for breast cancer therapy. Biochemical and Biophysical Research Communications, 2006, 351, 726-732.
16. Zhang X, Xiong Z, Wu Y, **Cai W**, Tseng JR, Gambhir SS, Chen X. Quantitative PET imaging of tumor integrin $\alpha_v\beta_3$ expression with ^{18}F -FRGD2. Journal of Nuclear Medicine, 2006, 47, 113-121. (Cited > 200 times)
17. Zhang X, **Cai W**, Cao F, Schreibmann E, Wu Y, Wu JC, Xing L, Chen X. ^{18}F -labeled bombesin analogs for targeting GRP receptor-expressing prostate cancer. Journal of Nuclear Medicine, 2006, 47, 492-501. (Cited > 100 times)
18. Hsu AR, Veeravagu A, **Cai W**, Hou LC, Tse V, Chen X. Integrin $\alpha_v\beta_3$ antagonists for anti-angiogenic cancer treatment. Recent Patents on Anti-Cancer Drug Discovery, 2007, 2, 143-158.
19. Liu Z,* **Cai W**,* He L, Nakayama N, Chen K, Sun X, Chen X, Dai H. In-vivo biodistribution and highly efficient tumor targeting of carbon nanotubes in mice. Nature Nanotechnology, 2007, 2, 47-52. (Cited > 1000 times)
20. Hsu AR,* **Cai W**,* Veeravagu A, Mohamedali KA, Chen K, Vogel H, Hou LC, Tse VCK, Rosenblum MG, Chen X. Multimodality molecular imaging of glioblastoma growth inhibition with vasculature-targeting fusion toxin VEGF₁₂₁/rGel. Journal of Nuclear Medicine, 2007, 48, 445-454. (Cited > 100 times)
21. **Cai W**,* Chen K,* He L, Cao Q, Koong A, Chen X. Quantitative PET of EGFR expression in xenograft-bearing mice using ^{64}Cu -labeled cetuximab, a chimeric anti-EGFR

- monoclonal antibody. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 850-858. (Cited > 200 times)
22. Niu G, Xiong Z, Cheng Z, **Cai W**, Gambhir SS, Xing L, Chen X. In vivo bioluminescence tumor imaging of RGD peptide-modified adenoviral vector encoding firefly luciferase reporter gene. Molecular Imaging and Biology, 2007, 9, 126-134.
 23. Li ZB, **Cai W**, Chen X. Semiconductor quantum dots for in vivo imaging. Journal of Nanoscience and Nanotechnology, 2007, 7, 2567-2581.
 24. Veeravagu A, Hsu AR, **Cai W**, Hou LC, Tse VCK, Chen X. Vascular endothelial growth factor and vascular endothelial growth factor receptor inhibitors as anti-angiogenic agents in cancer therapy. Recent Patents on Anti-Cancer Drug Discovery, 2007, 2, 59-71.
 25. Wu Z, Li ZB, **Cai W**, He L, Chin FT, Li F, Chen X. ¹⁸F-labeled mini-PEG spacers RGD dimer (¹⁸F-FPRGD2): synthesis and microPET imaging of $\alpha_v\beta_3$ integrin expression. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 1823-1831.
 26. Li ZB, **Cai W**, Cao Q, Chen K, Wu Z, He L, Chen X. ⁶⁴Cu-labeled tetrameric and octameric RGD peptides for small-animal PET of tumor $\alpha_v\beta_3$ integrin expression. Journal of Nuclear Medicine, 2007, 48, 1162-1171. (Cited > 200 times)
 27. Cao Q,* **Cai W**,* Li ZB, Chen K, He L, Li HC, Hui M, Chen X. PET imaging of acute and chronic inflammation in living mice. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 1832-1842.
 28. **Cai W**, Chen X. Multimodality imaging of vascular endothelial growth factor and vascular endothelial growth factor receptor expression. Frontiers in Bioscience, 2007, 12, 4267-4279.
 29. **Cai W**, Hsu AR, Li ZB, Chen X. Are quantum dots ready for in vivo imaging in human subjects? Nanoscale Research Letters, 2007, 2, 265-281. (Cited > 100 times)
 30. **Cai W**,* Ebrahimnejad A,* Chen K, Cao Q, Li ZB, Tice DA, Chen X. Quantitative radioimmunoPET imaging of EphA2 in tumor-bearing mice. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 2024-2036.
 31. Wang H,* **Cai W**,* Chen K, Li ZB, Kashefi A, He L, Chen X. A new PET tracer specific for vascular endothelial growth factor receptor 2. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 2001-2010. (Cited > 100 times)
 32. **Cai W**, Chen K, Li ZB, Gambhir SS, Chen X. Dual-function probe for PET and near-infrared fluorescence imaging of tumor vasculature. Journal of Nuclear Medicine, 2007, 48, 1862-1870. (Cited > 300 times)
 33. Wu Z, Li ZB, Chen K, **Cai W**, He L, Chin FT, Li F, Chen X. MicroPET of tumor integrin $\alpha_v\beta_3$ expression using ¹⁸F-labeled PEGylated tetrameric RGD peptide (¹⁸F-FPRGD4). Journal of Nuclear Medicine, 2007, 48, 1536-1544. (Cited > 100 times)
 34. **Cai W**, Chen X. Nanoplatfoms for targeted molecular imaging in living subjects. Small, 2007, 3, 1840-1854. (Cited > 400 times)
 35. **Cai W**, Olafsen T, Zhang X, Cao Q, Gambhir SS, Williams LE, Wu AM, Chen X. PET imaging of colorectal cancer in xenograft-bearing mice by use of an ¹⁸F-labeled T84.66 anti-carcinoembryonic antigen diabody. Journal of Nuclear Medicine, 2007, 48, 304-310. (Cited > 100 times)
 36. Rodriguez-Porcel M, **Cai W**, Gheysens O, Willman JK, Chen K, Wang H, Chen IY, He L, Wu JC, Li ZB, Mohamedali KA, Kim S, Rosenblum MG, Chen X, Gambhir SS. Imaging of VEGF receptor in a rat myocardial infarction model using PET. Journal of Nuclear Medicine, 2008, 49, 667-673.
 37. Niu G, **Cai W**, Chen X. Molecular imaging of human epidermal growth factor receptor 2 (HER-2) expression. Frontiers in Bioscience, 2008, 13, 790-805.
 38. Niu G, **Cai W**, Chen K, Chen X. Non-invasive PET imaging of EGFR degradation induced by a heat shock protein 90 inhibitor. Molecular Imaging and Biology, 2008, 10, 99-106.

39. **Cai W**, Chen X. Preparation of peptide-conjugated quantum dots for tumor vasculature-targeted imaging. Nature Protocols, 2008, 3, 89-96. (Cited > 100 times)
40. Willmann JK, Chen K, Wang H, Paulmurugan R, Rollins M, **Cai W**, Wang DS, Chen IY, Gheysens O, Rodriguez-Porcel M, Chen X, Gambhir SS. Monitoring of the biological response to murine hindlimb ischemia with ⁶⁴Cu-labeled vascular endothelial growth factor-121 positron emission tomography. Circulation, 2008, 117, 915-922.
41. Veeravagu A, Hou LC, Hsu AR, **Cai W**, Greve JM, Chen X, Tse V. The temporal correlation of dynamic contrast-enhanced magnetic resonance imaging with tumor angiogenesis in a murine glioblastoma model. Neurological Research, 2008, 30, 952-959.
42. Wang H, Chen K, **Cai W**, Li ZB, He L, Kashafi A, Chen X. Integrin-targeted imaging and therapy with RGD4C-TNF fusion protein. Molecular Cancer Therapeutics, 2008, 7, 1044-1053.
43. Liu Z, Davis C, **Cai W**, He L, Chen X, Dai H. Circulation and long-term fate of functionalized, biocompatible single-walled carbon nanotubes in mice probed by Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1410-1415. (PMCID: PMC2234157) (Cited > 700 times)
44. Cao Q, **Cai W**, Niu G, He L, Chen X. Multimodality imaging of IL-18-binding protein-Fc therapy of experimental lung metastasis. Clinical Cancer Research, 2008, 14, 6137-6145.
45. **Cai W**, Niu G, Chen X. Multimodality imaging of the HER-kinase axis in cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 186-208.
46. Chen K, Li ZB, Wang H, **Cai W**, Chen X. Dual modality optical and positron emission tomography imaging of vascular endothelial growth factor receptor on tumor vasculature using quantum dots. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 2235-2244. (Cited > 100 times)
47. Veeravagu A, Liu Z, Niu G, Chen K, Jia B, **Cai W**, Jin C, Hsu AR, Connolly AJ, Tse V, Wang F, Chen X. Integrin $\alpha_v\beta_3$ -targeted radioimmunotherapy of glioblastoma multiforme. Clinical Cancer Research, 2008, 14, 7330-7339.
48. Chen K,* **Cai W**,* Li ZB, Wang H, Chen X. Quantitative PET imaging of VEGF receptor expression. Molecular Imaging and Biology, 2009, 11, 15-22.
49. **Cai W**,* Guzman R,* Hsu AR, Wang H, Chen K, Sun G, Gera A, Choi R, Bliss T, He L, Li ZB, Maag ALD, Hori N, Zhao H, Moseley M, Steinberg GK, Chen X. Positron emission tomography imaging of post-stroke angiogenesis. Stroke, 2009, 40, 270-277.
50. Cao F, Li Z, Lee A, Liu Z, Chen K, Wang H, **Cai W**, Chen X, Wu JC. Noninvasive de novo imaging of human embryonic stem cell-derived teratoma formation. Cancer Research, 2009, 69, 2709-2713.

From University of Wisconsin - Madison:

51. **Cai W**, Chen X. Multimodality molecular imaging of tumor angiogenesis. Journal of Nuclear Medicine, 2008, 49, 113S-128S. (Cited > 400 times)
52. **Cai W**, Gambhir SS, Chen X. Molecular imaging of tumor vasculature. Methods in Enzymology, 2008, 445, 141-176.
53. **Cai W**, Niu G, Chen X. Imaging of integrins as biomarkers for tumor angiogenesis. Current Pharmaceutical Design, 2008, 14, 2943-2973. (Cited > 100 times)
54. **Cai W**, Gao T, Hong H, Sun J. Applications of gold nanoparticles in cancer nanotechnology. Nanotechnology, Science and Applications, 2008, 1, 17-32. (Cited > 400 times) (PMCID: PMC3808249)
55. **Cai W**, Kerner ZJ, Hong H, Sun J. Targeted cancer therapy with tumor necrosis factor- α . Biochemistry Insights, 2008, 1, 5-21. (PMCID: PMC3792586)
56. Hong H, Sun J, **Cai W**. Anatomical and molecular imaging of skin cancer. Clinical, Cosmetic and Investigational Dermatology, 2008, 1, 1-17. (PMCID: PMC3048596)

57. Hong H, Sun J, **Cai W**. Radionuclide-based cancer imaging targeting the carcinoembryonic antigen. Biomarker Insights, 2008, 3, 435-451. (PMCID: PMC2688357)
58. Hong H, Gao T, **Cai W**. Molecular imaging with single-walled carbon nanotubes. Nano Today, 2009, 4, 252-261. (PMCID: PMC3132891)
59. Hong H, Sun J, **Cai W**. Multimodality imaging of nitric oxide and nitric oxide synthases. Free Radical Biology & Medicine, 2009, 47, 684-698.
60. Yang Y, Hong H, Zhang Y, **Cai W**. Molecular imaging of proteases in cancer. Cancer Growth and Metastasis, 2009, 2, 13-27. (PMCID: PMC2838618)
61. Hong H, Zhang Y, Sun J, **Cai W**. Molecular imaging and therapy of cancer with radiolabeled nanoparticles. Nano Today, 2009, 4, 399-413. (PMCID: PMC2753977) ([Cited > 100 times](#))
62. Hong H, Zhang Y, Sun J, **Cai W**. Positron emission tomography imaging of prostate cancer. Amino Acids, 2010, 39, 11-27. (PMCID: PMC2883014)
63. Hong H, Zhang Y, **Cai W**. In vivo imaging of RNA interference. Journal of Nuclear Medicine, 2010, 51, 169-172. (PMCID: PMC2832477)
64. Hong H, Yang Y, Liu B, **Cai W**. Imaging of abdominal aortic aneurysm: the present and the future. Current Vascular Pharmacology, 2010, 8, 808-819. (PMCID: PMC2891873)
65. Hong H, Yang Y, Zhang Y, **Cai W**. Non-invasive imaging of human embryonic stem cells. Current Pharmaceutical Biotechnology, 2010, 11, 685-692. (PMCID: PMC2917512)
66. Zhang Y, Hong H, **Cai W**. Imaging with Raman spectroscopy. Current Pharmaceutical Biotechnology, 2010, 11, 654-661. (PMCID: PMC2917525)
67. Hong H, Yang Y, Zhang Y, **Cai W**. Non-invasive cell tracking in cancer and cancer therapy. Current Topics in Medicinal Chemistry, 2010, 10, 1237-1248. (PMCID: PMC2916057)
68. Zhang Y, Yang Y, Hong H, **Cai W**. Multimodality molecular imaging of CD105 (endoglin) expression. International Journal of Clinical and Experimental Medicine, 2011, 4, 32-42. (PMCID: PMC3048982)
69. Zhang Y, Yang Y, **Cai W**. Multimodality imaging of integrin $\alpha_v\beta_3$ expression. Theranostics, 2011, 1, 135-148. (PMCID: PMC3086621)
70. Hong H,* Yang Y,* Zhang Y,* Engle JW, Barnhart TE, Nickles RJ, Leigh BR, **Cai W**. Positron emission tomography imaging of CD105 expression during tumor angiogenesis. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 1335-1343. (PMCID: PMC3105181) ([Highlighted in Radiology Today Magazine](#))
71. Zhang Y, Hong H, **Cai W**. PET tracers based on Zr-89. Current Radiopharmaceuticals, 2011, 4, 131-139. (PMCID: PMC3246366)
72. Wang RE, Zhang Y, Cai J, **Cai W**, Gao T. Aptamer-based fluorescent biosensors. Current Medicinal Chemistry, 2011, 18, 4175-4184. (PMCID: PMC3205236)
73. Yang X, Hong H, Grailer JJ, Rowland IJ, Javadi A, Hurley SA, Xiao Y, Yang Y, Zhang Y, Nickles RJ, **Cai W**, Steeber DA, Gong S. cRGD-functionalized, DOX-conjugated, and ^{64}Cu -labeled superparamagnetic iron oxide nanoparticles for targeted anticancer drug delivery and PET/MR imaging. Biomaterials, 2011, 32, 4151-4160. (PMCID: PMC3292876) ([Cited > 200 times](#))
74. Wang P, Yang Y, Hong H, Zhang Y, **Cai W**, D Fang. Aptamers as therapeutics in cardiovascular diseases. Current Medicinal Chemistry, 2011, 18, 4169-4174. (PMCID: PMC3205281)
75. Shi J, Hong H, Ding Y, Yang Y, Wang F, **Cai W**, Wang X. Evolution of zinc oxide nanostructures through kinetics control. Journal of Materials Chemistry, 2011, 21, 9000-9008. (PMCID: PMC3130520) ([Inside Cover](#))

76. Hong H, Goel S, Zhang Y, **Cai W**. Molecular imaging with nucleic acid aptamers. Current Medicinal Chemistry, 2011, 18, 4195-4205. (PMCID: PMC3205285)
77. Yang Y,* Zhang Y,* Hong H, Liu G, Leigh BR, **Cai W**. In vivo near-infrared fluorescence imaging of CD105 expression during tumor angiogenesis. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 2066-2076. (PMCID: PMC3189267)
78. Zhang Y, Hong H, **Cai W**. Tumor-targeted drug delivery with aptamers. Current Medicinal Chemistry, 2011, 18, 4185-4194. (PMCID: PMC3205327)
79. **Cai W**, Zhang Y, Kamp TJ. Imaging of induced pluripotent stem cells: from cellular reprogramming to transplantation. American Journal of Nuclear Medicine and Molecular Imaging, 2011, 1, 18-28. (PMCID: PMC3155258)
80. **Cai W**, Hong H. Peptoid and positron emission tomography: an appealing combination. American Journal of Nuclear Medicine and Molecular Imaging, 2011, 1, 76-79. (PMCID: PMC3183479)
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184. England CG, Kamkaew A, Im H-J, Valdovinos HF, Sun H, Hernandez R, Cho SY, Dunphy EJ, Lee DS, Barnhart TE, **Cai W**. ImmunoPET imaging of insulin-like growth factor 1 receptor in a subcutaneous mouse model of pancreatic cancer. Molecular Pharmaceutics, 2016, 13, 1958-1966. (PMCID: PMC4897730) ([Selected as ACS Editors' Choice for Immediate Open Access](#))
185. England CG, Im H-J, Feng L, Chen F, Graves SA, Hernandez R, Orbay H, Xu C, Cho SY, Nickles RJ, Liu Z, Lee DS, **Cai W**. Re-assessing the enhanced permeability and retention effect in peripheral arterial disease using radiolabeled long circulating nanoparticles. Biomaterials, 2016, 100, 101-109. (PMCID: PMC4902717)
186. Goel S, Chen F, Luan S, Valdovinos HF, Shi S, Graves SA, Ai F, Barnhart TE, Theuer CP, **Cai W**. Engineering intrinsically zirconium-89 radiolabeled self-destructing mesoporous silica nanostructures for in vivo biodistribution and tumor targeting studies. Advanced Science, 2016, 3, 1600122. (PMCID: PMC5102673)
187. Ai F, Ferreira CA, Chen F, **Cai W**. Engineering of radiolabeled iron oxide nanoparticles for dual-modality imaging. Wiley Interdisciplinary Reviews (WIREs): Nanomedicine and Nanobiotechnology. 2016, 8, 619-630. (PMCID: PMC4911308)
188. Xu C, Shi S, Feng L, Chen F, Graves SA, Ehlerding EB, Goel S, Sun H, England CG, Nickles RJ, Liu Z, Wang T, **Cai W**. Long circulating reduced graphene oxide–iron oxide nanoparticles for efficient tumor targeting and multimodality imaging. Nanoscale, 2016, 8, 12683-12692. (PMCID: PMC4919229)
189. Luo H, England CG, Shi S, Graves SA, Hernandez R, Liu B, Theuer CP, Wong HC, Nickles RJ, **Cai W**. Dual targeting of tissue factor and CD105 for preclinical PET imaging of pancreatic cancer. Clinical Cancer Research, 2016, 22, 3821-3830. (PMCID: PMC4970931)
190. England CG, Ehlerding EB, **Cai W**. Imaging the biodistribution and performance of transplanted stem cells with PET. Journal of Nuclear Medicine, 2016, 57, 1331-1332. (PMCID: PMC5010504)
191. Lu W, Hong H, **Cai W**. Radio-nanomaterials for biomedical applications: state of the art. European Journal of Nanomedicine, 2016, 8, 151-170. (PMCID: PMC4963156)
192. Sun H, England CG, Hernandez R, Graves SA, Majewski RL, Kamkaew A, Jiang D, Barnhart TE, Yang Y, **Cai W**. ImmunoPET for assessing the differential uptake of a CD146-specific monoclonal antibody in lung cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2169-2179. (PMCID: PMC5050101)
193. Im H-J, England CG, Feng L, Graves SA, Hernandez R, Nickles RJ, Liu Z, Lee DS, Cho SY, **Cai W**. Accelerated blood clearance phenomenon reduces the passive targeting of PEGylated nanoparticles in peripheral arterial disease. ACS Applied Materials & Interfaces, 2016, 8, 17955-17963. (PMCID: PMC4959540)
194. Hernandez R, Sun H, England CG, Valdovinos HF, Ehlerding EB, Barnhart TE, Yang Y, **Cai W**. CD146-targeted immunoPET and NIRF imaging of hepatocellular carcinoma with a

- dual-labeled monoclonal antibody. Theranostics, 2016, 6, 1918-1933. (PMCID: PMC4997246)
195. Hernandez R, Sun H, England CG, Valdovinos HF, Barnhart TE, Yang Y, **Cai W**. ImmunoPET imaging of CD146 expression in malignant brain tumors. Molecular Pharmaceutics, 2016, 13, 2563-2570. (PMCID: PMC4935599)
196. Cheng L, Kamkaew A, Sun H, Jiang D, Valdovinos HF, Gong H, England CG, Goel S, Barnhart TE, **Cai W**. Dual-modality positron emission tomography/optical image-guided photodynamic cancer therapy with Chlorin e6-containing nanomicelles. ACS Nano, 2016, 10, 7721-7730. (PMCID: PMC4995128)
197. Cheng L, Kamkaew A, Shen S, Valdovinos HF, Sun H, Hernandez R, Goel S, Liu T, Thompson CR, Barnhart TE, Liu Z, **Cai W**. Facile preparation of multifunctional WS₂/WO_x nanodots for chelator-free ⁸⁹Zr-labeling and in vivo PET imaging. Small, 2016, 12, 5750-5758. (PMCID: PMC5093087)
198. Ehlerding EB, England CG, McNeel DG, **Cai W**. Molecular imaging of immunotherapy targets in cancer. Journal of Nuclear Medicine, 2016, 57, 1487-1492. (PMCID: PMC5050107)
199. Jiang D, England CG, **Cai W**. DNA nanomaterials for preclinical imaging and drug delivery. Journal of Controlled Release, 2016, 239, 27-38. (PMCID: PMC5037045)
200. Kamkaew A, Cheng L, Goel S, Valdovinos HF, Barnhart TE, Liu Z, **Cai W**. Cerenkov radiation induced photodynamic therapy using chlorin e6-loaded hollow mesoporous silica nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 26630-26637. (PMCID: PMC5061626)
201. Liu B, Kong L, Han K, Hong H, Marcus WD, Chen X, Jeng EK, Alter S, Zhu X, Rubinstein MP, Shi S, Rhode PR, **Cai W**, Wong HC. A novel fusion of ALT-803 (interleukin (IL)-15 superagonist) with an antibody demonstrates antigen-specific antitumor responses. Journal of Biological Chemistry, 2016, 291, 23869-23881. (PMCID: PMC5104912)
202. Brunquell CL, Hernandez R, Graves SA, Smit-Oistad I, Nickles RJ, **Cai W**, Meyerand ME, Suzuki M. Uptake and retention of manganese contrast agents for PET and MRI in the rodent brain. Contrast Media & Molecular Imaging, 2016, 11, 371-380. (PMCID: PMC5140672)
203. Zhang Y, Wang D, Goel S, Sun B, Chitgupi U, Geng J, Sun H, Barnhart TE, **Cai W**, Xia J, Lovell JF. Surfactant-stripped frozen pheophytin micelles for multimodal gut imaging. Advanced Materials, 2016, 28, 8524-8530. (PMCID: PMC5142297) ([Back Cover](#))
204. Ai F, Goel S, Zhan Y, Valdovinos HF, Chen F, Barnhart TE, **Cai W**. Intrinsically ⁸⁹Zr-labeled Gd₂O₂S:Eu nanophosphors with high in vivo stability for dual-modality imaging. American Journal of Translational Research, 2016, 8, 5591-5600. (PMCID: PMC5209509)
205. Yu Y, Sun H, Orbay H, Chen F, England CG, **Cai W**, Wang X. Biocompatibility and in vivo operation of implantable mesoporous PVDF-based nanogenerators. Nano Energy, 2016, 27, 275-281. (PMCID Pending)
206. England CG, Ehlerding EB, Hernandez R, Rekoske BT, Graves SA, Sun H, Liu G, McNeel DG, Barnhart TE, **Cai W**. Preclinical pharmacokinetics and biodistribution studies of ⁸⁹Zr-labeled Pembrolizumab. Journal of Nuclear Medicine, 2017, 58, 162-168. (PMCID: PMC5209640)
207. Hernandez R, Heskamp S, Rijkema M, Bos DL, Goldenberg DM, McBride WJ, Morgenstern A, Bruchertseifer F, **Cai W**, Boerman OC. Preventing radiobleaching of cyanine fluorophores enhances stability of nuclear/NIRF multimodality imaging agents. Theranostics, 2017, 7, 1-8. (PMCID: PMC5196880)
208. Goel S, England CG, Chen F, **Cai W**. Positron emission tomography and nanotechnology: a dynamic duo for cancer theranostics. Advanced Drug Delivery Reviews, 2017, ePub. (PMCID: PMC5299094)

209. England CG, Rui L, **Cai W**. Lymphoma: Current status of clinical and preclinical imaging with radiolabeled antibodies. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 517-532. (PMCID: PMC5285396)
210. Graves SA, Hernandez R, Valdovinos HF, Ellison PA, Engle JW, Barnhart TE, **Cai W**, Nickles RJ. Preparation and in vivo characterization of $^{51}\text{MnCl}_2$ as PET tracer of Ca^{2+} channel-mediated transport. Scientific Reports, 2017, accepted. (NIHMSID 879035)
211. Chen F, Valdovinos HF, Hernandez R, Goel S, Barnhart TE, **Cai W**. Intrinsic radiolabeling of titanium-45 using mesoporous silica nanoparticles. Acta Pharmacologica Sinica, 2017, 38, 907-913. (NIHMSID 861422)
212. Shi S, Xu C, Yang K, Goel S, Valdovinos HF, Luo H, Ehlerding EB, England CG, Cheng L, Chen F, Nickles RJ, Liu Z, **Cai W**. Chelator-free radiolabeling of nanographene: Breaking the stereotype of chelation. Angewandte Chemie International Edition, 2017, 56, 2889-2892. (NIHMSID 851514)
213. Heskamp S, Hernandez R, Molkenboer-Kuennen JDM, Essler M, Bruchertseifer F, Morgenstern A, Steenbergen EJ, **Cai W**, Seidl C, McBride WJ, Goldenberg DM, Boerman OC. α - versus β -emitting radionuclides for pretargeted radioimmunotherapy of carcinoembryonic antigen-expressing human colon cancer xenografts. Journal of Nuclear Medicine, 2017, 58, 926-933. (NIHMSID 859266)
214. Kamkaew A, Fu N, **Cai W**, Burgess K. Novel small molecule probes for metastatic melanoma. ACS Medicinal Chemistry Letters, 2017, 8, 179-184 (PMCID: PMC5304293).
215. Feng L, Cheng L, Dong Z, Tao D, Barnhart TE, **Cai W**, Chen M, Liu Z. Theranostic liposomes with hypoxia-activated prodrug to effectively destruct hypoxic tumors post-photodynamic therapy. ACS Nano, 2017, 11, 927-937. (NIHMSID 846588)
216. Ellison PA, Chen F, Goel S, Barnhart TE, Nickles RJ, DeJesus OT, **Cai W**. Intrinsic and stable conjugation of thiolated mesoporous silica nanoparticles with radioarsenic. ACS Applied Materials & Interfaces, 2017, 9, 6772-6781 (PMCID pending)
217. Zhang Y, Hong H, Sun B, Carter K, Qin Y, Wei W, Wang D, Jeon M, Geng J, Nickles RJ, Chen G, Prasad PN, Kim C, Xia J, **Cai W**, Lovell JF. Surfactant-stripped naphthalocyanines for multimodal tumor theranostics with upconversion guidance cream. Nanoscale, 2017, 9, 3391-3398. (PMCID pending)
218. Chakravarty R, Goel S, Dash A, **Cai W**. Radiolabeled inorganic nanoparticles for positron emission tomography imaging of cancer: an overview. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2017, 61, 181-204. (NIHMSID 864258)
219. Luo H, England CG, Goel S, Graves SA, Ai F, Liu B, Theuer CP, Wong HC, Nickles RJ, **Cai W**. ImmunoPET and near-infrared fluorescence imaging of pancreatic cancer with a dual-labeled bispecific antibody fragment. Molecular Pharmaceutics, 2017, 14, 1646-1655. (NIHMSID 861421)
220. Jiang D, Im H-J, Sun H, Valdovinos HF, Ehlerding EB, England CG, Nickles RJ, Lee DS, Cho SY, Huang P, **Cai W**. Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2017, in press. (NIHMSID 854447)
221. Ehlerding EB, England CG, Majewski RL, Valdovinos HF, Jiang D, Liu G, McNeel DG, Nickles RJ, **Cai W**. ImmunoPET imaging of CTLA-4 expression in mouse models of non-small cell lung cancer. Molecular Pharmaceutics, 2017, 14, 1782-1789. (NIHMSID 867106)
222. Jadvar H, Chen X, **Cai W**, Mahmood U. Radiotheranostics in cancer: platforms and prospects. Radiology, 2017, accepted with revision.
223. Ni D, Jiang D, Valdovinos HF, Ehlerding EB, Yu B, Barnhart TE, Huang P, **Cai W**. Bioresponsive polyoxometalate cluster for redox-activated photoacoustic imaging-guided photothermal cancer therapy. Nano Letters, 2017, 17, 3282-3289. (NIHMSID 869830)

224. Hernandez R, Graves SA, Gregg T, England CG, Valdovinos HF, Jeffery JJ, Barnhart TE, Severin GW, Merrins MJ, Nickles RJ, **Cai W**. Assessing functional pancreatic beta cell mass with radiomanganese PET. Diabetes, 2017, ePub. (NIHMSID 879031)
225. Ehlerding EB, England CG, Jiang D, Graves SA, Kang L, Lacognata S, Barnhart TE, **Cai W**. CD38 as a PET imaging target in lung cancer. Molecular Pharmaceutics, 2017, ePub.
226. Cheng L, Jiang D, Kamkaew A, Valdovinos HF, Im H-J, Feng L, England CG, Goel S, Barnhart TE, Liu Z, **Cai W**. Renal Clearable PEGylated Porphyrin Nanoparticles for Image-guided Photodynamic Cancer Therapy. Advanced Functional Materials, 2017, in press.

Books (Total of 3)

1. Protein-Protein Interactions: Computational and Experimental Tools, edited by **Weibo Cai** and Hao Hong. InTech - Open Access Company, March 2012. ISBN 978-953-51-0397-4, 472 pages.
2. Engineering in Translational Medicine, edited by **Weibo Cai**. Springer-Verlag London, January 2014. ISBN 978-1-4471-4371-0, 999 pages.
3. Hybrid Nanomaterials: Design, Synthesis, and Biomedical Applications, edited by Feng Chen and **Weibo Cai**. CRC Press Taylor & Francis Group, January 2017. ISBN-13: 978-1498720922, 480 pages.

Book Chapters (Total of 23)

Patents

1. Chen X, **Cai W**, Gambhir SS, Wang H, Chen K, Rodriguez-Porcel M, Willmann JK. Labeled derivatives of vascular endothelial growth factor for PET imaging of receptor distribution in diagnosis, United States Patent Application (11/881,384).
2. Cai J, Niu Y, **Cai W**, Hong H. RGD mimetic γ -AApeptides and methods of use, United States Patent (No. 9,234,007).

Manuscripts Submitted and in Preparation (Total of >30)

Conference Abstracts (Total of > 260)

PROFESSIONAL ACTIVITIES

Affiliated Departments and Programs

Member, University of Wisconsin Carbone Cancer Center (UWCCC)	2008-
Member, UW Institute for Clinical and Translational Research (UW-ICTR)	2008-
Member, UW Cardiovascular Research Center (UW-CVRC)	2008-
Member, UW Stem Cell & Regenerative Medicine Center (UW-SCRMC)	2008-
Trainer, the Chemistry-Biology Interface Training Program, UW - Madison	2008-
Trainer, UW Radiological Sciences Training Program	2009-
Trainer, UW Biotechnology Training Program	2009-
Member, UW Materials Science Program	2010-
Trainer, UW Graduate Program in Cellular and Molecular Biology	2011-2016
Guest Professor, Xiamen University, China	2014-2017

Editor-in-Chief

American Journal of Nuclear Medicine and Molecular Imaging (http://www.ajnmml.us/)	2015-
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Executive Editor

American Journal of Nuclear Medicine and Molecular Imaging 2011-2014

Editorial Board

Biomarkers in Cancer	2009-2011
Biomarker Insights	2009-2011
BioMed Research International	2013-2015
Breast Cancer: Basic and Clinical Research	2009-2011
Cancer Growth and Metastasis	2009-2011
Cancer Nanotechnology	2011-2014
Chinese Journal of Clinicians	2010-2012
Clinical Medicine Insights: Oncology	2009-2011
Current Molecular Imaging	2011-2014
Drug Target Insights	2009-2011
Frontiers in Cancer Imaging and Diagnosis	2011-2013
Immunotherapy Insights	2009-2011
International Journal of Clinical and Experimental Medicine	2010-2013
International Journal of Molecular Imaging	2009-2012
Journal of Chinese Clinical Medicine	2009-2011
Journal of Nanomedicine & Biotherapeutic Discovery	2010-2013
American Journal of Cancer Research	2011-
American Journal of Translational Research	2011-
Current Pharmaceutical Biotechnology	2014-
Theranostics	2014-
European Journal of Nuclear Medicine and Molecular Imaging	2015-
Nuclear Medicine and Molecular Imaging	2015-
Scientific Reports	2015-
Chinese Chemical Letters	2016-
Journal of Nuclear Medicine	2016-
Molecular Pharmaceutics	2017-

Guest Editor

Current Pharmaceutical Biotechnology (Volume 11, Issue 6)	2010
Current Radiopharmaceuticals (Volume 4, Issue 2)	2011
Medicinal Chemistry (Volume 7, Issue 5)	2011
Current Medicinal Chemistry (Volume 18, Issue 27)	2011
Current Molecular Medicine (Volume 13, Issue 10)	2013
Current Medicinal Chemistry (Volume 20, Issue 29)	2013
Molecular Pharmaceutics (Volume 11, Issue 11)	2014
Current Drug Targets (Volume 16, Issue 6)	2015

Board of Directors

Radiopharmaceutical Sciences Council (RPSC) of the Society of Nuclear Medicine and Molecular Imaging (SNMMI)	2013-2015
Vice President-Elect, RPSC of SNMMI	2015-2016
Vice President, RPSC of SNMMI	2016-2017
President, RPSC of SNMMI	2017-2018
Chinese American Society of Nuclear Medicine and Molecular Imaging	2013-2017

Committee Member of Scientific Society

SNMMI Committee on Young Professionals	2014-2016
SNMMI Committee on Awards	2014-2017
SNMMI Committee on Councils and Centers	2016-2018
SNMMI Center for Molecular Imaging Innovation and Translation (CMIIT) Optical Imaging Task Force	2014-2015
Observer, EANM Translational Molecular Imaging Committee	2016-
SNMMI Radiopharmaceutical Sciences Council Awards Committee	2016
SNMMI Committee on Scientific Program	2016-2018
SNMMI House of Delegates	2016-2018

Grant Review (for **NIH**)

NIH Challenge Grant (2009)
NIH 2014/01 ZRG1 OTC-B (02) M Cancer Prevention and Treatment (September 2013)
NIH Clinical Molecular Imaging and Probe Development (CMIP) Study Section, St. Louis, USA (June 2014)
NIH Medical Imaging (MEDI) Study Section, St. Louis, USA (June 2014)
NIH ZRG1-SBIB-F (59) R Special Emphasis Panel on Imaging and Biomarkers for Early Cancer Detection, Bethesda, USA (November 2014, April 2015, March 2016, November 2016)
NIH ZRG1-SBIB-H (55) Bioengineering Research Partnerships Study Section, Bethesda, USA (January 2017)
NIH Clinical Molecular Imaging and Probe Development (CMIP) Study Section, Denver, USA (June 2017)

Grant Review (for Department of Defense [**DoD**])

DoD Peer Reviewed Medical Research Program Pre-application-Rheumatoid Arthritis, USA (July 2014)
DoD Prostate Cancer Research Program (PCRP) Pre-application-Idea Development Award, USA (July 2015, July 2016)

Grant Review (for Cancer Prevention and Research Institute of Texas [**CPRIT**])

CPRIT Interfaces Review Committee, Dallas, USA (May & September 2010, February & October 2011, February & September 2012)
CPRIT Company Commercialization Awards Review, USA (March 2011 & July 2012)
CPRIT Imaging Technology and Informatics (ITI) Scientific Review Panel, Dallas, USA (May & October 2014, March & October 2015, March & September 2016, April 2017)

Grant Review (for Other Agencies)

Association for International Cancer Research (AICR), Scotland (2008)
The National Health and Medical Research Council (NHMRC), Australia (2009)
UW Institute for Clinical and Translational Research (ICTR) KL2 Scholar Program (2009)
The Dutch Cancer Society, Netherlands (2009)
UW ICTR Clinical and Type 1 Translational Research Pilot Program (2010)
Pennsylvania Department of Health (PA DOH), USA (October 2010)
UW ICTR KL2 Scholar Application Review Committee (2010)
UW ICTR Clinical and Type 1 Translational Research Pilot Program (2011)
The National Natural Science Foundation of China (2011)
American Institute of Biological Sciences (AIBS), USA (2011)
Czech Science Foundation, Czech Republic (2011)
Biomedical Research Fellowship Programme for India (2011)

Susan G. Komen for the Cure Post-doctoral Fellowship Review Committee, USA (2011)
Pennsylvania Department of Health (PA DOH) Research on Cancer Diagnostics or Therapeutics with Commercialization Potential Panel Review, USA (January 2012)
The French National Research Agency, France (February 2012)
The Netherlands Organisation for Scientific Research (NWO) Research Council for Earth and Life Sciences (ALW), Netherlands (February 2012)
UW ICTR Community-Academic Partnerships Core Type 2 Translational Research Pilot Program, USA (2012)
UW ICTR Clinical and Type 1 Translational Research Pilot Program, USA (2012)
Breast Cancer Campaign Grant, United Kingdom (2012)
UWCCC Investigator Initiated Clinical/Translational and Basic Pilot Projects, USA (July 2012)
Austrian Science Fund (FWF), Austria (September 2012)
Portuguese Foundation for Science and Technology (FCT), Portugal (September 2012)
Susan G. Komen for the Cure Career Catalyst Research Review Committee, USA (September 2012 & March 2013)
Pennsylvania Department of Health (PA DOH) Final Performance Review - 12-13 Cycle B, USA (December 2012)
UK Regenerative Medicine Platform, Medical Research Council, United Kingdom (December 2012)
Genome British Columbia Strategic Opportunities Fund, Canada (January 2013)
Wellcome Trust Postdoctoral Fellowship, United Kingdom (February 2013)
UWCCC Investigator Initiated Clinical/Translational Pilot Project Grant Review, USA (April 2013)
The Wellcome Trust/DBT India Alliance, Biomedical Research Fellowship Programme for India (April 2013)
Prostate Cancer Canada Movember Discovery Grant Review Panel C - Experimental Therapeutics, Canada (May 2013)
The Avenir Lyon Saint-Étienne Programme (PA-LSE) & Université de Lyon, Emerging Projects, France (May 2013)
Grant Review for Nazarbayev University, Republic of Kazakhstan, Managed by Oak Ridge Associated Universities, USA (July 2013)
Special Trustees of Moorfields Eye Hospital, London, United Kingdom (September 2013)
Joint Council Office, Agency for Science, Technology and Research (A*STAR), Singapore (September 2013)
Susan G. Komen for the Cure Career Catalyst Research Grants Basic and Translational Research Review Committee, USA (October 2013)
Portuguese Foundation for Science and Technology (FCT), Portugal (October 2013)
Swiss National Science Foundation (SNSF), Switzerland (November 2013)
The National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), United Kingdom (November 2013)
Swiss National Science Foundation (SNSF), Switzerland (January 2014)
UW ICTR Novel Methods Pilot Awards Program, USA (February 2014)
University of Toronto Pre-Proposal, Canada Foundation for Innovation (CFI) Competition, Canada (March 2015)
Prostate Cancer Canada Movember Discovery Grant Review Panel C - Experimental Therapeutics, Canada (May 2014)
InnovationsFonden (formerly The Danish Council for Strategic Research), Denmark (September 2014)
Brain Canada, the Canada Brain Research Fund (CBRF), Canada (November 2014)
Multidisciplinary Project Award, Cancer Research UK, United Kingdom (January 2015)

National Science Foundation, Division of Molecular and Cellular Biosciences, USA (March 2015)
Florida Department of Health's Bankhead-Coley Cancer Research Program, USA (March 2015)
French National Research Agency (ANR), France (May 2015)
Nazarbayev University Research Council in Kazakhstan, managed by Oak Ridge Associated Universities, USA (July 2015)
Multidisciplinary Project Award, Cancer Research UK, United Kingdom (July 2015)
Willy Gepts Research Foundation of the University Hospital Brussels (UZ Brussel), Belgium (August 2015)
Swiss National Science Foundation (SNSF), Switzerland (November 2015)
Florida Department of Health's Biomedical Research Program, USA (December 2015)
The National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Materials Research Panel (January 2016)
UW ICTR Clinical and Type 1 Translational Research Pilot Program, USA (April 2016)
The International Research Agenda (IRA) Programme, the Foundation for Polish Science, Poland (April 2016)
University of Toronto Pre-Proposal, Canada Foundation for Innovation (CFI) Competition, Canada (May 2016)
UW-Madison American Cancer Society Institutional Review Grant (IRG) Pilot Review Committee (June & December 2016)
Innovation and Innovation to Impact Grant Competitions (Imaging and Technology Development Panel), Canadian Cancer Society Research Institute (CCSRI), Canada (June 2016)
The Innovation and Technology Commission (ITC), Government of the Hong Kong Special Administrative Region, China (June 2016)
ERC Consolidator Grant, the European Research Council (ERC), European Union (July 2016)
2016 Straka Fellowship, Graduate School of UW-Madison, USA (July 2016)
Florida Department of Health's Biomedical Research Program, USA (December 2016)
"Excellence of Science" (EOS) programme, the Fund for Scientific Research-FNRS (F.R.S.-FNRS) and the Research Foundation Flanders (FWO), Belgium (May 2017)
2017 State Natural Science Award of the People's Republic of China, China (June 2017)

Journal Review (> 130 Journals)

ACS Applied Materials & Interfaces
ACS Chemical Biology
ACS Combinatorial Science
ACS Medicinal Chemistry Letters
ACS Nano
Advanced Drug Delivery Reviews
Advanced Functional Materials
Advanced Healthcare Materials
Advanced Materials
Advanced Science
Biomaterials
Cancer Research
Chemical Communications
Chemical Science
Chemical Society Reviews
Chemistry - An Asian Journal

Chemistry - A European Journal
Chemistry & Biology
Clinical Cancer Research
European Journal of Nuclear Medicine and Molecular Imaging
Gene Therapy
Integrative Biology
International Journal of Cancer
Journal of Controlled Release
Journal of Materials Chemistry B
Journal of Medicinal Chemistry
Journal of Nuclear Medicine
Journal of the American Chemical Society
Langmuir
Macromolecules
Molecular Cancer Therapeutics
Molecular Pharmaceutics
Nano Letters
Nano Research
Nanoscale
Nano Today
Nature
Nature Communications
Nature Materials
Nature Medicine
Nature Nanotechnology
Nature Protocols
NeuroImage
Pharmacological Reviews
Proceedings of the National Academy of Sciences of the United States of America
Science Translational Medicine
Small
Surface Science Reports
The Lancet
Theranostics

Conference Abstract Review

2009 Society of Nuclear Medicine Annual Meeting, Toronto, Canada
2009 World Molecular Imaging Congress, Montreal, Canada
2010 Society of Nuclear Medicine Annual Meeting, Salt Lake City, USA
2010 World Molecular Imaging Congress, Kyoto, Japan
2011 World Molecular Imaging Congress, San Diego, USA
2012 World Molecular Imaging Congress, Dublin, Ireland
2013 World Molecular Imaging Congress, Savannah, USA
2013 Society for Free Radical Biology and Medicine Annual Meeting, San Antonio, USA
2014 Society of Nuclear Medicine and Molecular Imaging Annual Meeting, St. Louis, USA
2014 European Association of Nuclear Medicine Annual Congress, Gothenburg, Sweden
2015 Society of Nuclear Medicine and Molecular Imaging Annual Meeting, Baltimore, USA
21st International Symposium on Radiopharmaceutical Sciences (ISRS2015), Columbia, USA
2015 World Molecular Imaging Congress, Honolulu, USA
2015 European Association of Nuclear Medicine Annual Congress, Hamburg, Germany

2016 World Molecular Imaging Congress, New York, USA
2016 European Association of Nuclear Medicine Annual Congress, Barcelona, Spain
2017 American Association of Physicists in Medicine Annual Meeting, Denver, USA
2017 European Association of Nuclear Medicine Annual Congress, Vienna, Austria
2017 American Association of Physicists in Medicine 59th Annual Meeting and Technical Exhibit, Denver, USA
2017 World Molecular Imaging Congress, Philadelphia, USA

Book/Special Issue Proposal Review

Hindawi Publishing Corporation (International Journal of Molecular Imaging)
Springer Science + Business Media
Wiley-Blackwell Publishing, John Wiley & Sons, Inc.
Elsevier and Academic Press
Bentham Science Publishers
Future Science Group eBook

Faculty Promotion Review

Northwestern University, USA (2014)
University of Chicago, USA (2015)
University of Southern California, USA (2015)
Shanghai Jiao Tong University, China (2015)
University of Michigan, Ann Arbor, USA (2016)
University at Buffalo, The State University of New York (2016)
Perelman School of Medicine at the University of Pennsylvania (2017)
University of Oxford, United Kingdom (2017)
University of California, Los Angeles, USA (2017)

Faculty Candidate Review

Shanghai Jiao Tong University, China (2011)
University of Leuven, Belgium (2014)
International Evaluation Panel, Center for Life Sciences' Peking University Academic Committee
2015-

PhD Thesis Review

Indian Institute of Technology Bombay, India (3 in 2015, 1 in 2016)

Conference Service

Session Co-Chair, BIT Life Sciences' 2nd World Cancer Congress, Beijing, June 2009
Judge, Young Investigator Poster Competition, 21st American Peptide Symposium, 2009
Session Chair, 2009 World Molecular Imaging Congress, Montreal, Canada
Session Chair, BIT Life Sciences' 3rd World Congress of Gene, Foshan, December 2009
Science Advisory Broad Member, BIT Life Sciences' 3rd Annual Protein and Peptide Conference (PepCon-2010), Beijing, China
Science Advisory Board Member, BIT Life Sciences' 1st Annual World Congress of Nanomedicine-2010, Beijing, China
Poster Session Co-Chair, 2010 World Molecular Imaging Congress, Kyoto, Japan
Organizing Committee Member & Session Chair, International Conference on Nanotechnology and Nanomedicine (NANO-2012), Omaha, USA, March 2012
Organizer and Moderator, Continuing Education Session on "Radiolabeled Nanoparticles", SNMMI Annual Meeting, St. Louis, USA, June 2014

Co-Moderator, Continuing Education Session on “Radiometals for Imaging”, SNMMI Annual Meeting, St. Louis, USA, June 2014
Poster Judge, Molecular Targeting Probes Track, SNMMI Annual Meeting, St. Louis, USA, June 2014
Scientific Committee Member, 5th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA’14), Prague, Czech Republic, August 2014
Session Chair, 11th Congress of the World Federation of Nuclear Medicine and Biology (WFNMB), Cancun, Mexico, August 2014
Judge for Student and Post-Doctoral Poster Competition, The American Society of Mechanical Engineers (ASME) 2015 Global Congress on NanoEngineering for Medicine and Biology, Minneapolis, USA, April 2014
Organizer and Moderator, Continuing Education Session on “Nanomedicine”, SNMMI Annual Meeting, Baltimore, USA, June 2015
Organizer and Moderator, Continuing Education Session on “PET/SPECT Imaging of Cardiovascular Diseases: State of the Art”, SNMMI Annual Meeting, Baltimore, USA, June 2015
Co-Moderator, Scientific Session “Preclinical Probes for Oncology I”, SNMMI Annual Meeting, Baltimore, USA, June 2015
Chair, Scientific Session “Radiopharmaceuticals & Radiochemistry: Macromolecules II”, EANM Annual Congress, Hamburg, Germany, October 2015
Chair, Scientific Session N3: “Magnetic Nanomaterials for Nanomedicine and Drug-Gene Delivery”, 2015 Materials Research Society (MRS) Fall Meeting & Exhibit, Boston, USA, November 2015
Co-chair, Nanoimaging Track (Track 1), ASME’s 5th Annual Global Conference on NanoEngineering for Medicine and Biology (NEMB), Houston, USA, February 2016
Poster Competition Judge, ASME’s 5th Annual Global Conference on NanoEngineering for Medicine and Biology (NEMB), Houston, USA, February 2016
Sub-Chair, Radiopharmaceutical Sciences Council (RPSC) Young Investigator Award (YIA) Symposium, SNMMI Annual Meeting, San Diego, USA, June 2016
Co-Organizer and Co-Moderator, Continuing Education Session on “Next-Generation Radiotracers for Cancer Imaging”, SNMMI Annual Meeting, San Diego, USA, June 2016
Co-Organizer and Co-Moderator, Continuing Education Session on “Theranostic nanoparticles”, SNMMI Annual Meeting, San Diego, USA, June 2016
Co-Organizer and Co-Moderator, Continuing Education Session on “From Molecule to Man”, SNMMI Annual Meeting, San Diego, USA, June 2016
Co-Organizer and Co-Moderator, Continuing Education Session on “Bioorthogonal and click chemistry for molecular imaging/therapy”, SNMMI Annual Meeting, San Diego, USA, June 2016
Co-Moderator, Scientific Session “RadioimmunoPET and Radioimmunotherapy Agents”, SNMMI Annual Meeting, San Diego, USA, June 2016
Poster Judge, Molecular Targeting Probes Track, SNMMI Annual Meeting, San Diego, USA, June 2016
Chair, Scientific Session “M2M: Nanoparticles & Macromolecules”, EANM Annual Congress, Barcelona, Spain, October 2016
Vice-Chair, “Molecular Targeting Probes - Radioactive & Nonradioactive” Track, SNMMI Annual Meeting, Denver, USA, June 2017
Sub-Chair, Radiopharmaceutical Sciences Council (RPSC) Young Investigator Award (YIA) Symposium, SNMMI Annual Meeting, Denver, USA, June 2017
Moderator, Radiopharmaceutical Sciences Council (RPSC) Young Investigator Award (YIA) Symposium, SNMMI Annual Meeting, Denver, USA, June 2017

Co-Moderator, Center for Molecular Imaging Innovation and Translation (CMIIT) Young Investigator Award (YIA) Symposium, SNMMI Annual Meeting, Denver, USA, June 2017
Co-Moderator, Integrated Session "Radiotheranostics", SNMMI Annual Meeting, Denver, USA, June 2017
Scientific Committee, 3rd International Symposium on Technetium and Other Radiometals in Chemistry and Medicine (TERACHEM 2018), Bressanone, Italy, September 2018

Consulting

Promega Corporation 2009-2011

Teaching (Course Director)

Medical Physics 471: Molecular Imaging (2 Credit) 2011
Medical Physics 719: Molecular Imaging (3 Credit) 2013-

Teaching (Guest Lecturer)

Residents of Department of Radiology 2010
MSE 803 (Dept. of Materials Science & Engineering) 2010
MSE 553: Nanomaterials & Nanotechnology 2011-
Biomedical Engineering 601: Nanomaterials for Biomedical Applications 2011-
Biomedical Engineering 619: Microscopy of Life 2011-
Medical Physics/Biomedical Engineering 574: Imaging in Medicine 2012-

Junior Faculty Mentoring

Amy M. Fowler, MD, PhD (Radiology) 2013-
Jonathan W. Engle, PhD (Medical Physics) 2016-

University/School/Departmental Service

Faculty Senate, University of Wisconsin 2008-2013
Member, Graduate Admissions Committee (Dept. of Medical Physics) 2008-
Member, Radiopharmaceutical Production Taskforce 2010-2012
Member, UWCCC Small Animal Imaging Facility Steering Committee 2011-
Member, UW - Madison Radiology Research & Development Committee 2013-2019
Member, MSP/MatE Reorganization Planning Committee 2014
Member, MS&E Graduate Program Curriculum Committee 2015
Radiology Post-Promotion Review Committee (2 in 2015) 2015-
UW-Madison Biotechnology Training Program (BTP) Steering Committee 2015-
Vevo® LAZR Photoacoustic System Advisory Board 2015-

SOCIETY MEMBERSHIPS

American Peptide Society (APS) 2005-
Society of Nuclear Medicine and Molecular Imaging (SNMMI) 2005-
World Molecular Imaging Society (WMIS, formerly Society for Molecular Imaging) 2006-
European Association of Nuclear Medicine (EANM) 2008-
Chinese American Society of Nuclear Medicine & Molecular Imaging (CASNMMI) 2009-
Society of Radiopharmaceutical Sciences (SRS) 2011-
The Antibody Society 2013-2014
Materials Research Society 2015-
Chinese American Society of Nanomedicine and Nanobiotechnology (CASNN) 2015-

INVITED LECTURES & PRESENTATIONS

1. Scaffold-Assembled Collagen Mimetics and Peptide Dendrimers. Molecular Imaging Program at Stanford, Stanford University, California, USA (September 2004).
2. Quantum Dots for Near-Infrared Fluorescence Imaging In Vivo. Molecular Imaging Program at Stanford, Stanford University, California, USA (January 2006).
3. Nanoparticle-Based Tumor Targeting and Imaging. Molecular Imaging Program at Stanford, Stanford University, California, USA (January 2007).
4. Multimodality Imaging of Angiogenesis: From Quantum Dots to Carbon Nanotubes. Department of Molecular & Medical Pharmacology, the Crump Institute for Molecular Imaging, University of California, Los Angeles, USA (February 2007).
5. Multimodality Molecular Imaging and Molecular Therapy Targeting Tumor Angiogenesis. School of Pharmacy, University of Wisconsin - Madison, USA (February 2007).
6. Seeing is Believing: Multimodality Molecular Imaging in Living Subjects. The Stem Cell Internal Venture, Johnson & Johnson, Pennsylvania, USA (May 2007).
7. Molecular Imaging of Cancer: Peptides, Proteins, and Nanoparticles. School of Medicine and Public Health, University of Wisconsin - Madison, USA (May 2007).
8. Seeing is Believing: Quantitative Imaging of Cancer Biomarkers. Department of Biomedical Engineering, SUNY at Stony Brook, New York, USA (May 2007).
9. Multimodality Molecular Imaging and Molecular Therapy Targeting Angiogenesis. Department of Radiology, University of Chicago, Illinois, USA (June 2007).
10. Molecular Imaging and Molecular Therapy of Cancer: Peptides, Proteins & Nanoparticles. Center for Molecular Imaging, University of Michigan - Ann Arbor, USA (June 2007).
11. Molecular Imaging in Drug Development: Seeing is Believing. Genentech, Inc., California, USA (June 2007).
12. From Peptides to Nanoparticles: Multimodality Molecular Imaging in Living Subjects. Lerner Research Institute, the Cleveland Clinic Foundation, Ohio, USA (July 2007).
13. Multimodality Molecular Imaging of Cancer: From Peptides to Nanoparticles. Molecular Imaging Program, National Cancer Institute, Maryland, USA (July 2007).
14. Multimodality Molecular Imaging in Living Subjects. Hollings Cancer Center, Medical University of South Carolina, USA (August 2007).
15. Development of Molecular Imaging Biomarkers: Seeing is Believing. Molecular Imaging Division, Siemens Medical Solutions USA, Inc., California, USA (October 2007).
16. Imaging VEGF Receptor Expression. Molecular Imaging Program at Stanford, Stanford University, California, USA (January 2008).
17. Imaging VEGF Receptors: Seeing is Believing. University of Wisconsin Angiogenesis Interest Group Symposium, Wisconsin, USA (May 2008).
18. Optical Imaging and Its Clinical Applications. Department of Radiology, University of Wisconsin - Madison, USA (May 2008).
19. One Isotope Fits All: PET Imaging with Peptides, Proteins, and Nanoparticles. PET Tea, University of Wisconsin - Madison, USA (August 2008).
20. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Institute for Research in Biomedicine (IRB Barcelona), Spain (September 2008).
21. Molecular Imaging: Seeing Biology in Living Subjects. Dept. of Biomedical Engineering, University of Wisconsin - Madison, USA (September 2008).
22. Molecular Imaging of Angiogenesis: Cancer and Beyond. Cancer Pharmacology Seminar, University of Wisconsin Comprehensive Cancer Center, USA (October 2008).
23. The Evolving Role of Molecular Imaging in Stem Cell Research. University of Wisconsin Stem Cell & Regenerative Medicine Center, USA (October 2008).
24. Molecular Imaging of VEGF Receptor Expression in Cancer and Cardiovascular Diseases. Vascular Biology Research Colloquium, University of Wisconsin Cardiovascular Research Center, USA (October 2008).

25. Positron Emission Tomography Imaging of Tumor Angiogenesis. Medical Education and Research Committee Meeting, Wisconsin Partnership Program, USA (November 2008).
26. Nanoplatforams for Targeted Molecular Imaging in Living Subjects. The NanoTumor Center, University of California - San Diego, USA (November 2008).
27. Seeing is Believing: Molecular Imaging in Living Subjects. Promega Corporation, Wisconsin, USA (April 2009).
28. Multimodality Molecular Imaging and Therapy Targeting Tumor Angiogenesis: Peptides, Proteins, and Nanoparticles. BIT Life Sciences' 2nd World Cancer Congress, Beijing, China (June 2009).
29. Seeing is Believing: Molecular Imaging in Living Subjects. College of Chemistry, Beijing Normal University, Beijing, China (June 2009).
30. Molecular Imaging in Drug Development: Seeing is Believing. School of Pharmacy, China Pharmaceutical University, Nanjing, China (June 2009).
31. Quantum Dot-Based Dual-modality Imaging of Integrin $\alpha_v\beta_3$ Expression on Tumor Vasculature. 21st American Peptide Society Symposium, Indiana, USA (June 2009).
32. Molecular Imaging: Applications in the Top 3 Killer Diseases. School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China (June 2009).
33. Seeing is Believing: Molecular Imaging in Living Subjects. School of Life Science, Nanjing University, Nanjing, China (June 2009).
34. Sensing, Imaging, and Therapy of Cancer with a Zinc Oxide Nanowire Platform. University of Wisconsin Carbone Cancer Center, USA (July 2009).
35. Seeing is Believing: Imaging VEGFR Expression in the Top 3 Killer Diseases. 11th International Congress on Amino Acids and Proteins (ICAAP), Vienna, Austria (August 2009).
36. Development of Multimodality Molecular Imaging Agents. Imaging and Radiation Sciences Seminars, University of Wisconsin Carbone Cancer Center, USA (September 2009).
37. Molecular Imaging: Seeing Biology in Living Subjects. Department of Chemistry, University of Wisconsin - Madison, USA (September 2009).
38. Nanoplatforams for Targeted Molecular Imaging in Living Subjects. Probe Discovery Conference, California, USA (November 2009).
39. Peptides, Proteins, and Nanoparticles: Molecular Imaging of Integrin $\alpha_v\beta_3$ Expression. Dept. of Chemistry & Biochemistry, University of California, San Diego, USA (November 2009).
40. Nanoplatforams for Targeted Molecular Imaging in Living Subjects. Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, China (November 2009).
41. Radioimmunoimaging and Radioimmunotherapy. BIT Life Sciences' 3rd World Congress of Gene, Foshan, China (December 2009).
42. Peptides, Proteins, and Nanoparticles: Molecular Imaging in Living Subjects. School of Chemical Biology & Biotechnology, Shenzhen Graduate School of Peking University, China (December 2009).
43. Preclinical Optical Imaging. Waisman Center, University of Wisconsin - Madison, USA (February 2010).
44. Molecular Imaging and Stratification of Abdominal Aortic Aneurysm. University of Wisconsin Wallace H. Coulter Translational Research Grant Program, USA (March 2010).
45. Positron Emission Tomography (PET) Imaging of Breast Cancer. Translational Breast Disease Oriented Working Group Meeting, University of Wisconsin Carbone Cancer Center (April 2010).
46. Novel Tracers for PET Imaging of Prostate Cancer. 2010 Society for Basic Urologic Research (SBUR) at the American Urological Association (AUA) Spring Meeting, San Francisco, USA (May 2010).

47. Positron Emission Tomography (PET) Imaging of Tumor Angiogenesis: Is There a Role in Ovarian Cancer? Gynecological Oncology Research Program, University of Wisconsin Carbone Cancer Center (May 2011).
48. Tracking (Stem) Cells In Vivo. Orthopedics Interest Group Meeting, University of Wisconsin - Madison (June 2011).
49. Molecular Imaging and Therapy Targeting Angiogenesis. Dept. of Nuclear Medicine, Odense University Hospital Institute of Clinical Research, University of Southern Denmark, Odense, Denmark (August 2011).
50. Molecular Imaging and Therapy Targeting Angiogenesis. Department of Clinical Physiology, Nuclear Medicine & PET, University of Copenhagen, Denmark (August 2011).
51. Positron Emission Tomography (PET) Imaging of Tumor Angiogenesis: Is There a Role in Breast Cancer? Translational Breast Disease Oriented Working Group Meeting, University of Wisconsin Carbone Cancer Center (September 2011).
52. Stem Cell Imaging: Tips, Tricks & Best Practices. Science Magazine Webinar, Science/AAAS (September 2011).
53. Molecular Imaging and Therapy Targeting Angiogenesis. Dept. of Medicine, Imperial College London, London, United Kingdom (October 2011).
54. Molecular Imaging and Therapy Targeting Angiogenesis. Gray Institute for Radiation Oncology and Biology, University of Oxford, Oxford, United Kingdom (October 2011).
55. Molecular Imaging and Therapy Targeting Angiogenesis. Dept. of Chemistry, Imperial College London, London, United Kingdom (October 2011).
56. Nanoplatfoms for Cancer Targeting and Imaging: From Quantum Dots to Graphene. Materials Science Program, University of Wisconsin - Madison (November 2011).
57. Peptide-Conjugated Nanomaterials for Cancer Targeting and Imaging. Peptides, Chemistry & Biology of, Gordon Research Conference, Ventura, USA (February 2012).
58. ImmunoPET of Tumor Angiogenesis. ImaginAb, Inc., California, USA (February 2012).
59. Molecular Imaging and Therapy Targeting Angiogenesis. McArdle Seminar in Cancer Biology Series, University of Wisconsin - Madison (March 2012).
60. Nanoplatfoms for Cancer Targeting and Imaging. International Conference on Nanotechnology and Nanomedicine (NANO-2012), Omaha, USA (March 2012).
61. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. PET Centre and Dept. of Medicine V, Aarhus University Hospital, Aarhus, Denmark (May 2012).
62. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Center for Radiopharmaceutical Science, ETH Zurich, PSI and USZ, Switzerland (May 2012).
63. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Department of Medical Radiation Physics, Lund University, Lund, Sweden (May 2012).
64. PET Imaging of Tumor Angiogenesis: Antibodies and Nanoparticles. Imaging at Illinois: The Next Generation Conference, University of Illinois at Urbana-Champaign, Urbana, USA (June 2012).
65. Molecular Imaging of CD105: Ready for Clinical Translation. TRACON Pharmaceuticals, Inc., San Diego, USA (August 2012).
66. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Dept. of Chemistry, University of South Florida, Tampa, USA (September 2012).
67. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Imaging Research Program, H. Lee Moffitt Cancer Center & Research Institute, Tampa, USA (September 2012).
68. Molecular Imaging. Fall Meeting of the Central Chapter of the Society of Nuclear Medicine (CCSNM), Wisconsin Dells, USA (October 2012).
69. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Department of Nuclear Medicine, University of Bologna, Bologna, Italy (October 2012).
70. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Dept. of Chemistry, the University of Georgia, Athens, USA (November 2012).

71. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Dept. of Biology and Chemistry, City University of Hong Kong, Hong Kong, China (November 2012).
72. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Li Ka Sing Faculty of Medicine, the University of Hong Kong, Hong Kong, China (November 2012).
73. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Department of Applied Biology and Chemical Technology, the Hong Kong Polytechnic University, Hong Kong, China (November 2012).
74. Molecular Imaging of Tumor Angiogenesis: Peptides, Proteins, and Nanoparticles. The International Conference on Radiation Biology (ICRB-2012) and 11th Biennial Meeting of Indian Society for Radiation Biology (ISRB), Mumbai, India (November 2012).
75. The Molecular Imaging and Nanotechnology Laboratory: Where are We (Going)? PET Tea, University of Wisconsin - Madison, USA (December 2012).
76. Nanoplatforms for Cancer Targeting and Imaging: a Quest for the Best. NHLBI Program of Excellence in Nanotechnology (PEN), Washington University School of Medicine, St. Louis, USA (December 2012).
77. Molecular Imaging of (Tumor) Angiogenesis: Ready for Clinical Translation. Cancer Therapy Discovery and Development Meetings, University of Wisconsin Carbon Cancer Center, Madison, WI, USA (January 2013).
78. Recent Development of Molecular Imaging Agents in WIMR. Prostate and Prostate Cancer Research Group Meeting, University of Wisconsin Carbone Cancer Center, Madison, WI, USA (February 2013).
79. Molecular Imaging with Peptides, Proteins, and Nanoparticles. University of Wisconsin Carbone Cancer Center Grand Rounds, Madison, WI, USA (February 2013).
80. Molecular Imaging: Is There a Role in Pancreatic Cancer? Gastrointestinal Cancer Translational Working Group Meeting, University of Wisconsin Carbone Cancer Center (February 2013).
81. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Institute of Automation, Chinese Academy of Sciences, Beijing, China (June 2013).
82. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. School of Life Science and Technology, Xidian University, Xi'an, China (June 2013).
83. Labeling Peptides/Proteins with Metal Chelates. Society of Nuclear Medicine and Molecular Imaging 2013 Annual Meeting, Vancouver, Canada (June 2013).
84. Molecular Imaging of Cancer with Peptides, Proteins, and Nanoparticles. Robert H. Lurie Comprehensive Cancer Center, Northwestern University, Chicago, IL, USA (July 2013).
85. Nanoplatforms for Cancer Targeting and Imaging: a Quest for the Best. School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China (July 2013).
86. Molecular Imaging of Angiogenesis: Peptides, Proteins, and Nanoparticles. Institute of Functional Nano & Soft Materials, Soochow University, Suzhou, China (July 2013).
87. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Department of Radiology, University of Chicago, Chicago, IL, USA (July 2013).
88. Cancer Targeting and Imaging with Peptides, Proteins, and Nanoparticles, Ontario Cancer Institute, Ontario, Canada (August 2013).
89. Cancer Targeting and Imaging with Peptides, Proteins, and Nanoparticles, Department of Biomedical Engineering, University at Buffalo, New York, USA (August 2013).
90. Nanoplatforms for Cancer Targeting and Imaging: a Quest for the Best. The 4th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA 2013), Toronto, Ontario, Canada (August 2013).
91. Cancer Targeting and Imaging with Peptides, Proteins, and Nanoparticles, School of Pharmacy, University of Michigan, Ann Arbor, USA (August 2013).
92. Molecular Imaging of Angiogenesis with Peptides, Proteins, and Nanoparticles. Beckman Laser Institute and Medical Clinic, University of California, Irvine, CA, USA (August 2013)

93. Cancer Targeting and Imaging with Peptides, Proteins, and Nanoparticles. Crump Institute for Molecular Imaging, University of California, Los Angeles, CA, USA (August 2013).
94. CD105 Targeting: Cancer, Nanomedicine, and Beyond... Scientific Advisory Board Meeting, TRACON Pharmaceuticals, Inc., San Diego, USA (August 2013).
95. Cancer Targeting and Imaging with Peptides, Proteins, and Nanoparticles, Medical College of Wisconsin, Milwaukee, USA (September 2013).
96. Molecular Imaging at WIMR: Ready for Clinical Translation. Translational Breast Disease Oriented Working Group Meeting, University of Wisconsin Carbone Cancer Center (September 2013).
97. Molecular Imaging of (Tumor) Angiogenesis: Peptides, Proteins, and Nanoparticles. Technical University of Munich, Munich, Germany (October 2013).
98. PET Imaging with Radiometals. University of Iowa, Iowa City, USA (October 2013).
99. Molecular Imaging of (Tumor) Angiogenesis: Peptides, Proteins, and Nanoparticles. Departments of Biomedical Engineering and Radiology, University of California, Davis, USA (November 2013).
100. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Molecular Imaging Seminar Series, Molecular Imaging Program at Stanford, Stanford University, Palo Alto, USA (November 2013).
101. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Mayo Clinic, Rochester, MN, USA (March 2014).
102. Molecular Imaging of Cancer and Cardiovascular Diseases with Peptides, Proteins, and Nanoparticles. Cedars-Sinai Medical Center, Los Angeles, CA, USA (March 2014).
103. ImmunoPET of Cancer. 11th Congress of the World Federation of Nuclear Medicine and Biology, Cancun, Mexico (August 2014).
104. Nanoplatfoms for Cancer Targeting and Imaging. 11th Congress of the World Federation of Nuclear Medicine and Biology, Cancun, Mexico (August 2014).
105. Nanoplatfoms for Cancer Targeting and Image-Guided Drug Delivery. Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic (August 2014).
106. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Charles University in Prague, Czech Republic (August 2014).
107. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Shanghai Jiaotong University, Shanghai, P.R. China (September 2014).
108. Multimodality Molecular Imaging Agents. Zhongshan Hospital, Fudan University, Shanghai, P.R. China (September 2014).
109. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, P.R. China (September 2014).
110. ImmunoPET and Multimodality Imaging Agents: Current Status at UW - Madison. International Symposium on Molecular Imaging and Translational Medicine, Peking Union Medical College Hospital (PUMCH), Beijing, P.R. China (September 2014).
111. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Department of Chemistry, Fudan University, P.R. China (September 2014).
112. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Uppsala University, Uppsala, Sweden (October 2014).
113. Molecular Imaging with Peptides, Proteins, and Nanoparticles. Karolinska University Hospital, Stockholm, Sweden (October 2014).
114. Molecular Imaging with Peptides, Proteins, and Nanoparticles. The Department of Materials and Environmental Chemistry, Stockholm University, Stockholm, Sweden (October 2014).

115. Research of the Molecular Imaging and Nanotechnology Laboratory: Prostate Cancer and Beyond. Prostate and Prostate Cancer Research Group Meeting, University of Wisconsin Carbone Cancer Center, Madison, WI, USA (October 2014).
116. Nanoplatforams for Imaging, Targeting, and Image-Guided Drug Delivery. Nanomedicine-Nanotech Interest Group Seminar, National Institutes of Health (NIH), Bethesda, MD, USA (November 2014).
117. Nanoplatforams for Imaging, Targeting, and Image-Guided Drug Delivery. University of Missouri Research Reactor Center (MURR), Columbia, MO, USA (November 2014).
118. Nanoplatforams for Imaging, Targeting, and Image-Guided Drug Delivery ([Keynote Talk](#)). The American Society of Mechanical Engineers (ASME) 2015 Global Congress on NanoEngineering for Medicine and Biology (NEMB2015), Minneapolis, MN, USA (April 2015).
119. Nanoplatforams for Imaging, Targeting, and Image-Guided Drug Delivery. Jagiellonian Centre for Experimental Therapeutics (JCET), Jagiellonian University, Krakow, Poland (May 2015).
120. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Nanjing First Hospital, Nanjing Medical University, Nanjing, China (June 2015).
121. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Southeast University Medical School, Nanjing, China (June 2015).
122. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, P.R. China (June 2015).
123. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Renji Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, P.R. China (June 2015)
124. Intrinsically Radiolabeled Nanoparticles: An Emerging Paradigm. 57th Annual Meeting of American Association of Physicists in Medicine (AAPM), Anaheim, CA, USA (July 2015).
125. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Molecular Imaging Center, University of Southern California, Los Angeles, CA, USA (July 2015).
126. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Research Imaging Sciences, Amgen Inc., Thousand Oaks, CA, USA (July 2015).
127. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Molecular Imaging and Therapy Seminar, Memorial Sloan Kettering Cancer Center, New York, NY, USA (September 2015).
128. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Columbia University Medical Center, New York, NY, USA (September 2015).
129. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. The Erasmus University Medical Center, Rotterdam, Netherlands (October 2015).
130. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Radboud University Nijmegen, Nijmegen, Netherlands (October 2015).
131. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. VU University Amsterdam, Amsterdam, Netherlands (October 2015).
132. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Hong Kong University of Science and Technology, Hong Kong, China (October, 2015).
133. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. The Chinese University of Hong Kong, Hong Kong, China (October, 2015).
134. Intrinsically Radiolabeled Nanomaterials: An Emerging Paradigm. International Molecular Imaging Summit, Xiamen University, Xiamen, China (October 2015).
135. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. The Johns Hopkins University, Baltimore, MD, USA (November 2015).
136. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Molecular Imaging Program, National Cancer Institute, Bethesda, MD, USA (November 2015).

137. Molecular Imaging of Cardiovascular Diseases: Focusing on VEGFR and CD105. Department of Surgery, University of Wisconsin - Madison, Madison, WI, USA (November 2015).
138. Nanoplatfoms for Imaging, Targeting, and Image-Guided Drug Delivery. 2015 Materials Research Society (MRS) Fall Meeting & Exhibit, Boston, MA, USA (December 2015).
139. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA (December 2015).
140. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Dana-Farber/Harvard Cancer Center/Brigham And Women's Hospital, Boston, MA, USA (December 2015).
141. Clinical Translation of an ^{89}Zr -Labeled Antibody: Towards Precision Medicine. Scientific Advisory Board Meeting, TRACON Pharmaceuticals, Inc., San Diego, USA (December 2015).
142. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. The University of Texas Southwestern Medical Center, Dallas, TX, USA (January 2016).
143. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. The University of Washington, Seattle, WA, USA (February 2016).
144. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Department of Pharmacology, Baylor College of Medicine, Houston, TX, USA (February 2016)
145. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Department of Cancer Systems Imaging, The University of Texas MD Anderson Cancer Center, Houston, TX, USA (February 2016)
146. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Department of Bioengineering, Rice University, Houston, TX, USA (February 2016)
147. Molecular Imaging and Therapy with Peptides, Proteins, and Nanoparticles. Yale University PET Center, New Haven, CT, USA (April 2016).
148. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Canada (April 2016)
149. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, Shanghai, China (May 2016)
150. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. College of Chemical and Biological Engineering, Zhejiang University, Hangzhou, China (May 2016)
151. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China (May 2016)
152. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Department of Chemistry, University of Science and Technology of China, Hefei, China (May 2016)
153. Molecular Imaging with Antibodies and Nanoparticles. Zhongshan Hospital, Fudan University, Shanghai, P.R. China (May 2016).
154. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Yale University PET Center, New Haven, CT, USA (July 2016).
155. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China (August 2016).
156. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Shanghai University of Medicine & Health Sciences & Renji Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China (August 2016).
157. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. School of Pharmaceutical Engineering & Life Science, Changzhou University, Changzhou, China (August 2016).
158. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Jinling Hospital, Nanjing University School of Medicine, Nanjing, China (August 2016).

159. Molecular Imaging and Therapy with Peptides, Protein, and Nanoparticles. Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China (August 2016).
160. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China (August 2016).
161. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China (August 2016).
162. Seeing is Believing: Molecular Imaging and Theranostics. 1st International Young Scholars Forum of Tongji Hospital, Wuhan, China (August 2016).
163. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Center for Targeted Therapeutics and Translational Nanomedicine (CT³N), University of Pennsylvania, Philadelphia, USA (August 2016).
164. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Bioconjugate Chemistry Lecturer Award Symposium, 2016 Fall American Chemical Society Meeting, Philadelphia, USA (August 2016).
165. Molecular Imaging and Theranostics: Seeing is Believing. Prostate Cancer Foundation Young Investigator Community, USA (September 2016).
166. Combined Optical and Nuclear Medicine Imaging. Precongress symposia “Multimodality Imaging - Opportunities and Challenges”, 29th Annual Congress of the European Association of Nuclear Medicine, Barcelona, Spain (October 2016).
167. Molecular Imaging and Theranostics: Seeing is Believing. Nuclear Medicine Department, Hospital Sant Pau, Barcelona, Autonomous University of Barcelona, Barcelona, Spain (October 2016).
168. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics ([Plenary Lecture](#)). 29th Annual Congress of the European Association of Nuclear Medicine, Barcelona, Spain (October 2016).
169. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Feinberg School of Medicine, Northwestern University, Chicago, USA (November 2016).
170. Preclinical Imaging and Therapy with TRC105. Scientific Advisory Board Meeting, TRACON Pharmaceuticals, Inc., San Diego, USA (November 2016).
171. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Crump Institute for Molecular Imaging and the Jonsson Comprehensive Cancer Center’s Cancer Molecular Imaging (CMI) Program, David Geffen School of Medicine at UCLA, Los Angeles, USA (February 2017).
172. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Workshop on Commissioning the New “Center of Radiopharmaceutical Cancer Research”, Institute of Radiopharmaceutical Cancer Research, Dresden, Germany (March 2017).
173. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Peking University Cancer Hospital & Institute, Beijing, China (May 2017).
174. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Chinese Academy of Sciences Center for Excellence in Nanoscience, National Center for NanoScience and Technology, Beijing, China (May 2017).
175. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Department of Chemistry, Tsinghua University, Beijing, China (May 2017).
176. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. School of Life Sciences, Tianjin University, Tianjin, China (May 2017).
177. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. College of Chemistry, Nankai University, Tianjin, China (May 2017).
178. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Institute of Automation, Chinese Academy of Sciences, Beijing, China (May 2017).

179. Solid Target Isotopes at University of Wisconsin: Production and Application. Peking University Cancer Hospital & Institute, Beijing, China (May 2017).
180. Radiotheranostics. Society of Nuclear Medicine and Molecular Imaging 2017 Annual Meeting, Denver, USA (June 2017).
181. Intrinsically Radiolabeled Nanomaterials ([Keynote Lecture](#)). 2017 Chinese American Society of Nanomedicine and Nanobiotechnology (CASNN) Annual Meeting, Suzhou, China (July 2017).
182. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai Jiao Tong University, Shanghai, China (July 2017).
183. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Jiangsu Institute of Nuclear Medicine, Wuxi, China (August 2017).
184. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Nanjing First Hospital, Nanjing Medical University, Nanjing, China (August 2017).
185. Molecular Imaging, Image-Guided Drug Delivery, and Theranostics. Huashan Hospital, Shanghai Medical College, Fudan University, Shanghai, China (August 2017).
186. Molecular Imaging of Cancer, Diabetes, and Cardiovascular Diseases. Zhongshan Hospital, Fudan University, Shanghai, China (August 2017).
187. Solid Target Isotopes at University of Wisconsin: Production and Application. Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, China (August 2017).
188. Molecular Imaging of Cancer, Diabetes, and Cardiovascular Diseases. Jiangsu Chiatai Qingjiang Pharmaceutical Co., Ltd, Huai An, China (August 2017).

RESEARCH TRAINING

Current group members

Shreya Goel	(MS, Biotechnology)	08/2012 -
Emily B. Ehlerding	(BS, Chemistry & Physics)	08/2014 -
Carolina A. Ferreira	(MS, Materials Science)	08/2015 -
Dawei Jiang	(PhD, Inorganic Chemistry)	09/2015 -
Bo Yu	(PhD, Biochemistry & Molecular Biology)	04/2016 -
Saige I. Lacognata	(Undergraduate)	08/2016 -
Dalong Ni	(PhD, Materials Physics and Chemistry)	08/2016 -
Cerise M. Siamof	(Undergraduate)	09/2016 -
Lei Kang	(MD, PhD, Radiology/Nuclear Medicine)	01/2017 -
Hao Wei	(MD, PhD, Imaging/Nuclear Medicine)	05/2017 -
Madeline E. Boleyn	(BS, Biology & mathematics)	05/2017 -
Tuanwei Sun	(PhD, Materials Physics and Chemistry)	09/2017 -
Shiyong Li	(MD, PhD, Pathophysiology)	09/2017 -
Miao Li	(PhD, Pharmaceutical Analysis)	10/2017 -
Weijun Wei	(BS, Imaging/Nuclear Medicine)	10/2017 -

Former group members

Zachary J. Kerner	(Undergraduate)	06/2008 - 08/2008
Jiangtao Sun	(PhD, Chemistry)	08/2008 - 06/2010
<i>Now Full Professor at Changzhou University, China</i>		
Shreya Goel	(BS, Biotechnology)	05/2011 - 07/2011
Yan Zhu	(ME, Biochemistry/Molecular Biology)	07/2012 - 09/2012

Duane V. Myklejord	(Undergraduate)	09/2009 - 05/2013
<i>Now Medical Student</i>		
Jero Bean	(Undergraduate)	08/2011 - 05/2013
<i>Now Medical Student at University of Wisconsin - Madison</i>		
Hakan Orbay	(MD, PhD, Surgery)	04/2012 - 07/2013
Tapas R. Nayak	(PhD, Pharmacy)	09/2011 - 07/2013
Sarah P. Yang	(PhD, Toxicology)	01/2014 - 03/2014
<i>Now Environmental Toxicologist at Wisconsin Department of Natural Resources</i>		
Savo Bou Zein Eddine	(BS, Biology)	06/2014 - 07/2014
Rubel Chakravarty	(PhD, Chemistry)	09/2013 - 09/2014
<i>Now Scientific Officer "E" at Bhabha Atomic Research Centre, India</i>		
Hao Hong	(PhD, Biochemistry)	07/2008 - 09/2014
<i>Now Assistant Professor of Radiology at University of Michigan, Ann Arbor</i>		
Lazura K. Krasteva	(Undergraduate)	02/2013 - 12/2014
Shijie Luan	(Undergraduate)	08/2014 - 02/2015
Brianne C. Fliss	(Undergraduate)	03/2013 - 03/2015
Yuzhong Wang	(Undergraduate)	03/2015 - 05/2015
Christine Nylander	(MS, Engineering Physics)	06/2015 - 08/2015
Yunan Yang	(MD, PhD, Medicine)	03/2009 - 09/2015
<i>Now CEO of Oligene, LLC</i>		
Haiming Luo	(PhD, Biomedical Engineering)	10/2013 - 10/2015
<i>Now Postdoctoral Scholar at Massachusetts General Hospital/Harvard</i>		
Feng Chen	(PhD, Materials Physics/Chemistry)	07/2012 - 12/2015
<i>Now Senior Research Scientist at Memorial Sloan Kettering Cancer Center</i>		
Fanrong Ai	(PhD, Materials Science)	12/2014 - 12/2015
Kevin Y. Cao	(Undergraduate)	08/2015 - 01/2016
Cheng Xu	(MS, Biomedical Engineering)	09/2014 - 03/2016
Yonghua Zhan	(PhD, Biomedical Engineering)	03/2015 - 03/2016
Cyrus R. Thompson	(Undergraduate)	09/2015 - 05/2016
Brooke J. Wassenaar	(Undergraduate)	12/2015 - 05/2016
Anyanee Kamkaew	(PhD, Chemistry)	07/2015 - 06/2016
<i>Now Assistant Professor at Suranaree University of Technology, Thailand</i>		
Christina M. Lewis	(BS, Biochemistry)	08/2013 - 07/2016
<i>Now Medical Physics Resident at UW-Madison</i>		
Haiyan Sun	(PhD, Pharmacology)	10/2014 - 08/2016
Rebecca L. Majewski	(BS, Biomedical Engineering)	08/2015 - 08/2016
Liang Cheng	(PhD, Materials Science)	08/2015 - 08/2016
Peter Ji	(Undergraduate)	05/2016 - 08/2016
Jingjing Wu	(Undergraduate)	06/2016 - 08/2016
Ruohong Shi	(Undergraduate)	07/2016 - 09/2016
Jakob D. Ohman	(Undergraduate)	08/2014 - 12/2016
Cheng Xu	(PhD, Biomedical Engineering)	10/2016 - 01/2017
Hyung-Jun Im	(MD, PhD, Molecular Medicine)	02/2015 - 02/2017
<i>Now Assistant Professor at Seoul National University, Korea</i>		
Christopher G. England	(PhD, Pharmacology and Toxicology)	01/2015 - 03/2017
<i>Now Managing Editor at the American Chemical Society</i>		
Stephen A. Graves	(BS, Physics)	09/2014 - 06/2017

Graduated PhD Students

Yin Zhang	(Medical Physics)	09/2008 - 06/2013
<i>Now Assistant Professor at Rutgers University</i>		

Sixiang Shi (Materials Science & Engineering) 08/2011 - 08/2016
Now Postdoctoral Scholar at MD Anderson Cancer Center
 Reinier Hernandez (Medical Physics) 08/2011 - 08/2016
Now Postdoctoral Scholar at University of Wisconsin - Madison

Service as committee member

Student	Department	Research Advisor	Examination
Jonathan W. Engle	Medical Physics	R. Jerry Nickles	PhD candidacy PhD defense
Ksenija Bernau	Biomedical Engineering	M. Elizabeth Meyerand & Clive N. Svendsen	PhD candidacy PhD defense
Stephen R. Bowen	Medical Physics	Robert Jeraj	PhD candidacy PhD defense
Benjamin Titz	Medical Physics	Robert Jeraj	PhD candidacy PhD defense
Matthew J. Nyflot	Medical Physics	Robert Jeraj	PhD candidacy PhD defense
Fuqiang Gao	Electrical and Computer Engineering	Susan Hagness & Barry Van Veen	PhD candidacy PhD defense
Qing Liang	Medical Physics	Larry A. DeWerd	PhD defense
Omer Sadak	Materials Science Program	Shaoqin Gong	PhD candidacy
Guojun Chen	Materials Science Program	Shaoqin Gong	PhD candidacy
Hector F. Valdovinos	Medical Physics	R. Jerry Nickles	PhD candidacy PhD defense
Fan Li	Graduate School of Health and Medical Sciences	Andreas Kjær (University of Copenhagen, Denmark)	PhD defense
Christina M. Lewis	Medical Physics	M. Elizabeth Meyerand & Masatoshi Suzuki	PhD candidacy PhD defense
Stephen A. Graves	Medical Physics	R. Jerry Nickles & Weibo Cai	PhD candidacy PhD defense
Benjamin L. Cox	Medical Physics	Sean B. Fain & Kevin W. Eliceiri	PhD candidacy
Manoj Kumar	Graduate Program in Clinical Investigation	Amy M. Fowler	PhD candidacy
Alexandra Schroeder	Medical Physics	Jamey P. Weichert & Kevin W. Eliceiri	PhD candidacy
Kim M. Tsoi	Orthopedic Surgery	Warren C. Chan (University of Toronto, Canada)	PhD defense
Simmyung Yook	Pharmaceutical Sciences	Raymond M. Reilly (University of Toronto, Canada)	PhD defense
Anders Floor Frellsen	Micro- and Nanotechnology	Thomas L. Andresen & Andreas I. Jensen (Technical University of Denmark, Denmark)	PhD defense

Yuyuan Wang	Materials Science Program	Shaoqin Gong	PhD candidacy
Yongshuai Ge	Medical Physics	Guanghong Chen	PhD candidacy PhD defense
Yinsheng Li	Medical Physics	Guanghong Chen	PhD candidacy

RESEARCH GRANTS

Completed

Source: University of Wisconsin - Madison Graduate School
 Title: Dissertation Completion Fellowship
 Role: Mentor (Fellowship for Shreya Goel)
 Period Covered: 08/29/2016 to 05/28/2017
 Total Budget: \$28,390

Source: NIBIB/NCI 1 R01 CA169365-01A1
 Title: Novel Combination Therapy for Prostate Cancer
 Role: PI
 Period Covered: 04/12/2013 to 03/31/2017 (No-cost Extension)
 Total Budget: \$903,499

Source: Phelps Family Foundation
 Title: Scaling-up the PET program at the University of Wisconsin to achieve higher throughput in tracer synthesis and imaging
 Role: Co-Investigator (PI: Robert J. Nickles)
 Period Covered: 02/16/2016 to 02/15/2017
 Total Budget: \$317,250

Source: UW-Madison Radiology Research & Development Fund & Medical Physics
 Title: Image-Guided Drug Delivery to Solid Tumors using Biodegradable Nanotheranostic Agents
 Role: PI
 Period Covered: 10/01/2015 to 09/30/2016
 Total Budget: \$35,000

Source: University of Wisconsin - Madison Graduate School
 Title: Theranostic Nanomedicine for Image-Guided Drug Delivery in Pancreatic Cancer
 Role: PI
 Period Covered: 07/01/2014 to 06/30/2016
 Total Budget: \$25,000

Source: UW-Madison Radiology Research & Development Fund & Medical Physics
 Title: Expression of Small Proteins for Molecular Imaging and Therapy
 Role: PI
 Period Covered: 07/01/2014 to 2/29/2016
 Total Budget: \$50,000

Source: University of Wisconsin - Madison
 Title: Grainger Wisconsin Distinguished Graduate Fellowship

Role: Mentor (Fellowship for Sixiang Shi)
Period Covered: 1/1/2015 to 12/31/2015
Total Budget: \$44,958

Source: DOD PCRP IDEA Award (W81XWH-11-1-0644)
Title: Molecular Imaging and Therapy of Prostate Cancer
Role: PI
Period Covered: 09/26/2011 to 09/25/2015 (No-cost Extension)
Total Budget: \$654,418

Source: DOD BCRP Post-Doctoral Fellowship (W81XWH-11-1-0648)
Title: Development of Biodegradable Zinc Oxide Nanowires Targeting Breast Cancer Metastasis
Role: Mentor (Post-Doctoral Fellowship for Yunan Yang)
Period Covered: 08/15/2011 to 08/14/2015 (No-cost Extension)
Total Budget: \$445,454

Source: UW Institute for Clinical and Translational Research and the UWCCC
Title: Molecular Imaging to Identify Response to Tumor Immunotherapy Using Anti-PD-1
Role: Co-Investigator (PI: Douglas G. McNeel)
Period Covered: 07/01/2014 to 06/30/2015
Total Budget: \$50,000

Source: Radiological Society of North America Research Seed Grant
Title: Impact of Endocrine-resistant Estrogen Receptor-alpha Variants on [¹⁸F]Fluoroestradiol Imaging of Breast Cancer
Role: Mentor (PI: Amy M. Fowler)
Period Covered: 07/01/2014 to 06/30/2015
Total Budget: \$40,000

Source: UW-Madison Graduate School
Title: Tumor-Targeted Multifunctional Nano-Graphene for Image-Guided Drug Delivery and Cancer Theranostics
Role: PI
Period Covered: 03/01/2013 to 06/30/2014
Total Budget: \$60,612

Source: UW-Madison Radiology Research & Development Fund & Medical Physics
Title: Theranostic Nanomedicine Targeting Triple-Negative Breast Cancer
Role: PI
Period Covered: 03/01/2013 to 02/28/2014
Total Budget: \$40,000

Source: NIH/NCI 1R01CA138761-01A2
Title: Novel Inhibitors of Prostate Cancer Progression
Role: Collaborator (PI: Ajit K. Verma)
Period Covered: 07/07/2011 to 07/06/2013

Source: Elsa U. Pardee Foundation
Title: Novel Combination Therapy for Prostate Cancer

Role: PI
Period Covered: 03/01/2012 to 2/28/2013
Total Budget: \$154,250

Source: UW-Madison Radiology Research & Development Fund & Medical Physics
Title: PET Imaging of Tumor FSH Receptor Expression
Role: Co-Investigator (PI: Yongjun Yan)
Period Covered: 12/01/2011 to 11/30/2012
Total Budget: \$31,845

Source: UW-Madison/Milwaukee Intercampus Research Incentive Grants Program
Title: Multifunctional Gold Nanorods for Targeted Cancer Theranostics
Role: Co-PI (PI: Shaoqin Gong)
Period Covered: 09/01/2011 to 8/31/2012
Total Budget: \$50,000

Source: UW Institute for Clinical and Translational Research and the UWCCC
Title: Targeting Tumor Vasculature with Biodegradable Zinc Oxide Nanowires
Role: PI
Period Covered: 07/01/2011 to 6/30/2012
Total Budget: \$50,000

Source: Wisconsin Partnership Program MERC New Investigator Program
Title: Positron Emission Tomography Imaging of Tumor Angiogenesis
Role: PI
Period Covered: 04/01/2009 to 03/31/2012
Total Budget: \$90,000

Source: UWCCC Multi-Investigator Planning Grants
Title: Monitoring ER-Targeted Cancer Therapy with ¹⁸F-Fluoroestradiol PET
Role: PI of Project 2 (PI: Mark Burkard)
Period Covered: 08/01/2009 to 07/30/2011
Total Budget: \$62,394

Source: Susan G. Komen for the Cure KG091153
Title: Molecular Imaging and Therapy Targeting Breast Tumor Angiogenesis
Role: PI (Post-Doctoral Fellowship for Hao Hong)
Period Covered: 07/09/2009 to 07/08/2011
Total Budget: \$120,000

Source: UW Institute for Clinical and Translational Research and the UWCCC
Title: An Arsenic-Based Platform for IGF1R Targeted PCa Imaging
Role: PI
Period Covered: 08/01/2009 to 1/31/2011
Total Budget: \$50,000

Source: Society of Nuclear Medicine Benedict Cassen Post-Doctoral Fellowship
Title: Molecular Imaging and Therapy Targeting Tumor Angiogenesis
Role: Post-Doctoral Fellow (PI: Xiaoyuan Chen)
Period Covered: 04/01/2006 to 03/30/2008
Total Budget: \$50,000

Source: Stanford University School of Medicine Dean's Fellowship
Title: Tumor-Targeted siRNA Delivery using Self-Assembled Nanoparticles
Role: Post-Doctoral Fellow (PI: Xiaoyuan Chen)
Period Covered: 07/01/2005 to 06/30/2006
Total Budget: \$20,000