

Curriculum Vitae

Brian M. Zeglis, Ph.D.

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Scientific Positions

Hunter College, City University of New York	New York, NY
Professor, Department of Chemistry (Aug. 2022 – present)	
Associate Professor, Department of Chemistry (Sept. 2019 – Aug. 2022)	
Assistant Professor, Department of Chemistry (Jan. 2015 – Sept. 2019)	
Memorial Sloan Kettering Cancer Center (Oct. 2015 – present)	New York, NY
Assistant Attending Radiochemist (Affiliate), Department of Radiology	
Weill Cornell Medical College (Mar. 2015 – present)	New York, NY
Assistant Professor (Adjunct), Department of Radiology	
Memorial Sloan Kettering Cancer Center (Sept. 2009 – Jan. 2015)	New York, NY
Postdoctoral Research Fellow	
California Institute of Technology (2004-2009)	Pasadena, CA
Ph.D., Chemistry	June 2010
Yale University (2000-2004)	New Haven, CT
B.S., summa cum laude, Chemistry	May 2004

Awards and Honors

Roger Tsien Award for Excellence in Chemical Biology, World Molecular Imaging Society	October 2022
PSC-CUNY Research Award, City University of New York	June 2019
William Stewart Travel Award	June 2019
President's Award for Excellence in Scholarly and Creative Achievement, Hunter College	June 2017
William Stewart Travel Award, City University of New York	March 2017
PSC-CUNY Research Award, City University of New York	May 2016
Feliks Gross Award, City University of New York	April 2016
Junior Faculty Research Award, City University of New York	Jan. 2016
William Stewart Travel Award, City University of New York	Oct. 2015
Chief Radiology Laboratory Research Fellow, MSKCC	Sept. 2013 – Jan. 2015
CMIIT Young Investigator Award, Society of Nuclear Medicine	June 2014
Alavi Mandell Award, Society of Nuclear Medicine	June 2014
Editor's Choice Award, Society of Nuclear Medicine	June 2014
Berson-Yalow Award, Society of Nuclear Medicine	June 2013
World Molecular Imaging Society Travel Award	Sept. 2012
Finalist, World Molecular Imaging Society Young Investigator Award	Sept. 2012
Society of Radiopharmaceutical Sciences Travel Award	Aug. 2011
Arthur Fleischer Award for Excellence in Chemistry, Yale University	May 2004
Saybrook College Marshall, Yale University	May 2004
<i>Phi Beta Kappa</i> , early induction, Yale University	May 2002

Funding

Active Support

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Memorial Sloan Kettering Cancer Center Imaging and Radiation Sciences Award
“Ovarian Cancer Theranostics: A MUC16-targeted Antibody for ImmunoPET
Imaging and Radioimmunotherapy” (MPI)
Memorial Sloan Kettering Cancer Center/Hunter College Sept. 2021 – Aug. 2023

National Institutes of Health R01 Award
“Novel Transgenic Mouse Models Addressing Outstanding Translational Barriers
in Antibody-Based Therapeutics ” (Subcontract PI)
Rockefeller University/Hunter College/CUNY July 2020 – June 2025

National Institutes of Health R01 Award
“Novel Reagents for Rapid and Stable Thiol-Based Bioconjugations” (Contact PI)
Hunter College/CUNY July 2019 – June 2024

National Institutes of Health U01 Award
“Pretargeted Clinical Imaging of CA19.9 in Pancreatic Cancer” (MPI)
Memorial Sloan Kettering Cancer Center/Hunter College/CUNY Dec. 2018 – Nov. 2023

Completed Support

National Institutes of Health R21 Award
“A PET Radiotracer for the Diagnostic and Theranostic
Imaging of Lyme Disease” (Contact PI)
Hunter College/CUNY June 2020 – May 2022

National Institutes of Health R01 Award
“The Clinical PET Imaging of Metastatic Breast Cancer with Site-Specifically
Labeled ⁸⁹Zr-Trastuzumab” (MPI)
Memorial Sloan Kettering Cancer Center/Hunter College/CUNY April 2016 – March 2021

Memorial Sloan Kettering Cancer Center Department of Surgery Award
“Intraoperative Imaging of High Grade Serous Ovarian Cancer
During Cytoreductive Surgery” (MPI)
Memorial Sloan Kettering Cancer Center/Hunter College/CUNY Sept. 2018 – Aug. 2020

Cookies for Kids Cancer Research Project Award
“The Development of Preclinical Validation of Site-Specifically Radiolabeled
hu3F8 for the PET Imaging and Radioimmunotherapy of Neuroblastoma” (MPI)
Memorial Sloan Kettering Cancer Center Jan. 2016 – Dec. 2018

TeamConnor Childhood Cancer Foundation Research Project Award
“Pretargeted Radioimmunotherapy of Pediatric Neuroblastoma” (PI)
Hunter College/CUNY Jan. 2016 – Dec. 2017

Hunter College Center for Translational and Biological Research Pilot Project Award
“Pretargeted PET Imaging of Pancreatic Cancer” (PI)
Hunter College/CUNY Jan. 2016 – Dec. 2017

Weill Cornell Medical Center Clinical and Translational Science Center Pilot Award
“Discovery of Targeted Teretoxin Imaging Agents” (MPI)
Hunter College/Memorial Sloan Kettering Cancer Center Oct. 2015 – Sept. 2017

National Institutes of Health K99/R00 Career Transition Award
“Pretargeted Radioimmunotherapy Based on Bioorthogonal Click Chemistry” (PI)
July 2014 – June 2018

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Memorial Sloan Kettering Cancer Center/Hunter College/CUNY

- Translational and Integrative Medicine Research Fund Grant May 2014 – May 2015
“The First-in-Human Clinical Trial of a Pretargeted Methodology for the PET Imaging of Colorectal Cancer” (MPI)
Memorial Sloan Kettering Cancer Center
- Clinical and Translational Science Center Seed Funding Grant Mar. 2014 – May 2014
“Assessing the Pharmacology and Toxicity of the Molecular Components of a Pretargeted Methodology for the PET Imaging of Colorectal Cancer” (MPI)
Memorial Sloan Kettering Cancer Center
- MSKCC Imaging and Radiation Sciences Research Award Sept. 2012 – Sept. 2014
“PET Imaging of Highly Reactive Oxygen Species” (PI)
Memorial Sloan Kettering Cancer Center
- Department of Defense PCRP Hypothesis Development Award Sept. 2012 – Sept. 2013
“Imaging of Oxidative Stress in Prostate Cancer” (PI)
Memorial Sloan Kettering Cancer Center
- NIH F32 Postdoctoral National Research Service Award Sept. 2009 – Sept. 2012
“PET Imaging of Topoisomerase Expression in Breast Cancer” (PI)
Memorial Sloan Kettering Cancer Center
- National Science Foundation GRFP Pre-Doctoral Fellowship Sept. 2004 – Sept. 2007
California Institute of Technology

Publications

total citations = 5,791; h-index = 44; i10-index = 69; * denotes co-corresponding author

1. Feng, Y., Sarrett, S. M., Meshaw, R. L., Vaidyanathan, G., Cornejo, M. A., Zeglis, B. M., Zalutsky, M. R. “Site-Specific Radiohalogenation of a HER2-Targeted Single Domain Antibody Fragment Using a Novel Residualizing Prosthetic Agent.” *Journal of Medicinal Chemistry* Online Ahead of Print (2022).
2. Li, L. Di, L., Akther, S., Zeglis, B. M., Qiu, W. “Evolution of the Antigenic-Variability vls Locus of the Lyme Disease Pathogen and Development of Recombinant Monoclonal Antibodies Targeting Conserved VlsE Epitopes” *Microbiology Spectrum* Online Ahead of Print (2022)
3. Sarrett, S. M., Rodriguez, C., Rymarczyk, G., Hosny, M., Keinänen, O., Delaney, S., Thau, S., Krantz, B. A. *, Zeglis, B. M. “Lysine-Directed Site-Specific Bioconjugation for the Creation of Radioimmunoconjugates” *Bioconjugate Chemistry* 33(9), 1750 (2022).
4. Rodriguez, C., Delaney, S., Sarrett, S. M., Keinänen, O., Zeglis B. M. “Antibody Engineering for Nuclear Imaging and Radioimmunotherapy” *Journal of Nuclear Medicine* 63, 1316 (2022).
5. Maitz, C. A., Delaney, S., Cook, B. E., Genady, A. R., Hoerres, R. Kuchuk, M., Makris, G., Valliant, J. F., Sadeghi, S., Lewis, J. S., Hennkens, H. M., Bryan, J. N. *, Zeglis, B. M.* “Pretargeted PET of Osteodestructive Lesions in Dogs” *Molecular Pharmaceutics* 19, 3153 (2022).
6. Kunihiro, A. G., Sarrett, S. M., Lastwika, K. J., Solan, J. L., Pisarenko, T., Keinänen, O., Rodriguez, C., Taverne, L. R., Fitzpatrick, A. L., Li, C. I., Houghton, A. M., Zeglis, B. M.*, Lampe, P. D.* “CD133 as a Biomarker for an Autoantibody-to-ImmunoPET Paradigm for the Early Detection of Small Cell Lung Cancer” *Journal of Nuclear Medicine* 63, 1701 (2022).
7. Macpherson, D. S., McPhee, S. A., Zeglis, B. M., Ulijn, R. V. “The Impact of Tyrosine Iodination on the

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- Aggregation and Cleavage Kinetics of MMP-9-Responsive Peptide Sequences” *ACS Biomaterials Science and Engineering*. 8, 579 (2022).
8. Sharma, S. K., Mack, K. N., Piersigilli, A., Pourat, J., Edwards, K. J., Keinänen, O., Jiao, M. S., Zhao, H., White, B., Brooks, C. L., de Stanchina, E., Madiyalakan, M. R., Hollingsworth, M. A., Radhakrishnan, P., Lewis, J. S., Zeglis, B. M. “ImmunPET of Ovarian and Pancreatic Cancer with AR9.6, a Novel MUC16-Targeted Therapeutic Antibody” *Clinical Cancer Research*. 28, 948 (2022).
 9. Keinänen, O., Days, E. J., Rodriguez, C., Sarrett, S. M., Brennan, J. M., Sarparanta, M., Zeglis, B. M. “Harnessing PET to Track Micro- and Nanoplastics In Vivo” *Scientific Reports*. 11:11463 (2021).
 10. Sharma, S. K., Adumeau, P., Keinänen, O., Sisodiya, V., Sarvaiya, H., Tchelepi, R., Korsen, J. A., Pourat, J., Edwards, K. A., Ragupathi, A., Hamdy, O., Saunders, L. R., Rudin, C. M., Poirier, J. T., Lewis, J. S., Zeglis, B. M. “Synthesis and Comparative In Vivo Evaluation of Site-Specifically Labeled Radioimmunoconjugates for DLL3-Targeted ImmunPET” *Bioconjugate Chemistry*. 32, 1255 (2021).
 11. Imlimthan, S., Khng, Y. C., Keinänen, O., Zhang, W., Airaksinen, A. J., Kostianen, M. A., Zeglis, B. M., Santos, H. A., Sarparanta, M. “A Theranostic Cellulose Nanocrystal-based Drug Delivery System with Enhanced Retention in Pulmonary Metastases of Melanoma” *Small*. 2007705 (2021).
 12. Sarrett, S. M., Keinänen, O., Days, E. J., Dewaele-Le Roi, G., Rodriguez, C., Carnazza, K. E., Zeglis, B. M. “In Vivo Pretargeting Based on Inverse Electron-Demand Diels Alder Click Chemistry” *Nature Protocols*. s41596-021-00540-2 (2021).
 13. Xiao, G., Annor, G. K., Fung, K., Keinänen O., Zeglis, B. M., Bargonetti, J. “Targeting Triple Negative Breast Cancer with a Nucleus-Directed p53 Tetramerization Domain Peptide” *Molecular Pharmaceutics*. 18, 338 (2021).
 14. Herth, M. M., Ametamy, S., Antuganov, D., Bauman, A., Berndt, M., Brooks, A. F., Bormans, G., Choe, Y. S., Gillings, N., Häfeli, U. O., James, M. L., Kopka, K., Kramer, V., Krasikova, R., Madsen, J., Mu, L., Neumaier, B., Piel, M., Rosch, F., Ross, R., Schibli, R., Scott, P. J. H., Shalgunov, V., Vasdev, N., Wadsak, W., Zeglis, B. M. “On the Consensus Nomenclature Rules for Radiopharmaceutical Chemistry — Reconsideration of Radiochemical Conversation” *Nuclear Medicine and Biology*. 93, 19 (2021).
 15. Sarbisheh, E. K., Dewaele-Le Roi, G., Shannon, W., Tan, S., Xu, Y., Zeglis, B. M.*, Price, E. W.* “DiPODS: A Reagent for Site-Specific Bioconjugation via the Irreversible Re-bridging of Disulfide Linkages” *Bioconjugate Chemistry*. 31, 2789 (2020).
 16. Keinänen, O., Fung, K., Brennan, J. M., Zia, N., Harris, M., van Dam, E. Biggin, C., Hedt, A., Stoner, J., Donnelly, P. S., Lewis, J. S., Zeglis, B. M. “Harnessing ⁶⁴Cu/⁶⁷Cu for a Theranostic Approach to Pretargeted Radioimmunotherapy” *Proceedings of the National Academic of Sciences of the United States of America*. 117(45), 28316 (2020).
 17. Fung, K., Sharma, S. K., Keinänen, O., Long Roche, K., Lewis, J. S., Zeglis, B. M. “A Molecluarly Targeted Intraoperative Near-Infrared Fluorescence Imaging Agent for High-Grade Serous Ovarian Cancer” *Molecular Pharmaceutics*. 17, 3140 (2020).
 18. Fung, K., Vivier, D., Keinänen, O., Sarbisheh, E. K., Price, E. W., Zeglis, B. M. “⁸⁹Zr-Labeled AR20.5: A MUC1-Targeting ImmunPET Probe” *Molecules*. 25, 2315 (2020).
 19. White, J. M., Keinänen, O. M., Cook, B. E., Zeglis, B. M., Gibson, H. M., Viola, N. T. “Removal of Fc Glycans from [⁸⁹Zr]Zr-DFO-anti-CD8 Prevents Peripheral Depletion of CD8⁺ T Cells” *Molecular Pharmaceutics*. 17(6), 2099 (2020).

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20. Ulaner, G. A., Carrasquillo, J. A., Riedl, C., Yeh, R., Ross, D. S., Jhaveri, K., Chandarlapaty, S., Hyman, D. M., Zeglis, B. M., Lyashchenko, S. K., Lewis, J. S. "Identification of HER2-positive metastases in patients with HER2-negative primary breast cancer using HER2-targeted ⁸⁹Zr-pertuzumab PET/CT" *Radiology*. 296, 370 (2020).
21. Imberti, C., Adumeau, P., Blower, J. E., Al Saleme, F., Torres, J. B., Lewis, J. S., Zeglis, B. M., Terry, S. Y. A., Blower, P. J. "Manipulating the In Vivo Behavior of ⁶⁸Ga with Tris(hydroxypyridinone) Chelators: Pretargeting and Blood Clearance" *International Journal of Molecular Sciences*. 21, 1496 (2020)
22. Jannetti, S. A., Zeglis, B. M., Zalutsky, M. R., Reiner, T. "Poly(ADP-ribose)polymerase (PARP) Inhibitors and Radiation Therapy" *Frontiers in Pharmacology*. 11, 170 (2020)
23. Pirovano, G., Jannetti, S. A., Carter, L. M. Sadique, A., Kossatz, S., De Souza Franca, P. D., Maeda, M., Zeglis, B. M., Lewis, J. S., Humm, J. L., Reiner, T. R. "Targeted Brain Tumor Radiotherapy Using an Auger Emitter" *Clinical Cancer Research*. 26, 2871 (2020)
24. Vivier, D., Fung, K., Rodriguez, C., Adumeau, P., Ulaner, G. A., Lewis, J. S. Sharma, S. K., Zeglis, B. M. "The Influence of Glycans-Specific Bioconjugation on the FcγRI Binding and In Vivo Performance of ⁸⁹Zr-DFO-Pertuzumab" *Theranostics*. 10(4), 1746 (2020)
25. MacPherson, D. S., Fung, K., Cook, B. E., Francesconi, L. C., Zeglis, B. M. "A Brief Overview of Metal Complexes as Nuclear Imaging Agents" *Dalton Trans*. 48, 14547 (2019).
26. Keinänen, O. M., Brennan, J. M., Membreno, R., Fung, K. C., Gangangari, K., Days, E. J., Williams, C. J., Zeglis, B. M. "Dual Radionuclide Theranostic Pretargeting" *Mol. Pharm*. 16(10), 4416 (2019).
27. Rondon, A., Schmitt, S., Briat, A., Ty, N., Maigne, L., Quintana, M., Membreno, R., Zeglis, B. M., Navarro-Teulon, I., Pouget, J. P., Chezal, J. M., Miot-Noirault, E., Moreau, M., Degoul, F. "Pretargeted Radioimmunotherapy and SPECT Imaging of Peritoneal Carcinomatosis Using Bioorthogonal Click Chemistry: Probe Selection and First Proof-of-Concept" *Theranostics* 9(22), 6706 (2019).
28. Membreno, R., Keinänen, O. M., Cook, B. E., Tully, K. M., Fung, K. C., Lewis, J. S., Zeglis, B. M. "Towards the Optimization of Click-Mediated Pretargeted Radioimmunotherapy" *Mol. Pharm*. 16(5), 2259 (2019).
29. Vivier, D., Sharma, S. K., Adumeau, P., Rodriguez, C., Fung, K., Zeglis, B. M. "The Impact of FcγRI Binding on ImmunoPET" *J. Nucl. Med*. 60(8), 1174 (2019).
30. Davydova, M., Dewaele Le Roi, G., Adumeau, P., Zeglis, B. M. "Synthesis and Bioconjugation of Thiol-Reactive Reagents for the Creation of Site-Selectively Modified Immunoconjugates" *Journal of Vis. Exp*. 145, e59063 (2019).
31. Membreno, R. M., Cook, B. E., Zeglis, B. M. "Pretargeted Radioimmunotherapy Based on the Inverse Electron Demand Diels-Alder Reaction" *Journal of Vis. Exp*. 143, e59041 (2019).
32. Poty, S., Carter, L. M., Mandleywala, K., Membreno, R., Abdel-Atti, D., Ragupathi, A., Scholz, W. W., Zeglis, B. M., Lewis, J. S. "Leveraging Bioorthogonal Click Chemistry to Improve ²²⁵Ac-Radioimmunotherapy of Pancreatic Ductal Adenocarcinoma" *Clin. Can. Res*. 25(2), 868 (2019).
33. Cook, B. E., Membreno, R. M., Zeglis, B. M. "Dendrimer Scaffold for the Amplification of In Vivo Pretargeting Ligations" *Bioconjugate Chem*. 29, 2734 (2018).
34. Vivier, D., Sharma, S. K., Zeglis, B. M. "Understanding the In Vivo Fate of Radioimmunoconjugates for Nuclear Imaging" *J Label. Cmpd. Radiopharm*. 1-21 (2018).

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35. Jannetti, S. A., Carlucci, G., Carney, B., Kossatz, S., Shenker, L., Carter, L. M., Salinas, B., Brand, C., Sadique, A., Donabedian, P. L., Cunanan, K. M., Gonen, M., Ponomarev, V., Zeglis, B. M., Souweidane, M. M., Lewis, J. S., Weber, W. W., Humm, J. L., Reiner, T. "PARP-1 Targeted Radiotherapy in Mouse Models of Glioblastoma" *J Nucl. Med.* 59, 1225 (2018).
36. Ulaner, G., Lyashchenko, S. K., Riedl, C., Ruan, S., Zanzonico, P. B., Lake, D., Jhaveri, K., Zeglis, B. M., Lewis, J. S., O'Donoghue, J. A. "First-in-Human HER2-targeted Imaging Using ⁸⁶Zr-Pertuzumab PET/CT: Dosimetry and Clinical Application in Patients with Breast Cancer" *J. Nucl. Med.* 59, 900 (2018).
37. Adumeau, P., Davydova, M., Zeglis, B. M.* "Thiol-Reactive Bifunctional Chelators for the Creation of Site-Selectively Modified Radioimmunoconjugates with Improved Stability" *Bioconjugate Chem.* 29, 1364 (2018).
38. Membreno, R., Cook, B. E., Fung, K., Lewis, J. S., Zeglis, B. M.* "Click-Mediated Pretargeted Radioimmunotherapy of Colorectal Cancer" *Mol. Pharm.* 15, 1729 (2018).
39. Sharma, S. K., Chow, A., Monette, S., Vivier, D., Pourat, J., Edwards, K. J., Dilling, T. R., Abdel-Atti, D., Zeglis, B. M., Poirier, J. T., Lewis, J. S. "Fc-mediated Anomalous Biodistribution of Therapeutic Antibodies in Immunodeficient Mouse Models" *Cancer Res.* 78, 1820 (2018).
40. Adumeau, P., Vivier, D., Sharma, S. K., Wang, J., Zhang, T., Chen, A., Agnew, B. J., Zeglis, B. M.* "Site-Specifically Labeled Antibody-Drug Conjugate for Simultaneous Therapy and ImmunoPET" *Mol. Pharm.* 15, 892 (2018).
41. Poty, S., Membreno, R., Glaser, J. M., Ragupathi, A., Scholz, W. W., Zeglis, B. M.*, Lewis, J. S.* "The Inverse Electron-Demand Diels-Alder Reaction as a New Methodology for the Synthesis of ²²⁵Ac-Labelled Radioimmunoconjugates" *Chem. Comm.* 54, 2599-2602 (2018).
42. Keinänen, O., Fung, K., Pourat, J., Jallinoja, V., Vivier, D., Pillarsetty, N., Airaksinen, A. J., Lewis, J. S., Zeglis, B. M., Sarparanta, M. "Pretargeting of Internalizing Trastuzumab and Cetuximab with a ¹⁸F-tetrazine Tracer in Xenograft Models" *Euro. J. Nucl. Med. Mol. Imag. Res.* 7, 95 (2017).
43. Meyer, J. -P., Kozłowski, P., Jackson, J., Cunanan, K. M., Adumeau, P., Dilling, T. R., Zeglis, B. M.*, Lewis, J. S.* "Exploring Structural Parameters for Pretargeting Radioligand Optimization" *J. Med. Chem.* 60(19), 8201 (2017).
44. Altai, M., Membreno, R., Cook, B., Tolmachev, V., Zeglis, B. M.* "Pretargeted Imaging and Therapy" *J Nucl. Med.* 58(10), 1553 (2017).
45. Sharma, S. K., Pourat, J., Abdel-Atti, D., Carlin, S., Piersigilli, A., Bankovich, A. J., Gardner, E. E., Hamdy, O., Isse, K., Bheddah, S., Sandoval, J., Cunanan, K. M., Johansen, E. B., Allaj, V., Sisodiya, V., Liu, D., Zeglis, B. M., Rudin, C. M., Dylla, S. J., Poirier, J. T., Lewis, J. S. "Non-Invasive Interrogation of DLL3 Expression in Metastatic Small Cell Lung Cancer" *Cancer Res.* 77(14), 1 (2017).
46. Zeglis, B. M.*, Vugts, D. J.* "ESPMIS: Helping Young Scientists Navigate the Molecular Imaging Landscape" *Mol. Imag. Biol.* 19, 325 (2017).
47. Büchel, G. E., Carney, B., Zeglis, B. M., Eppinger, J., Reiner, T. "A Novel Technique for Generating and Observing Chemiluminescence in a Biological Setting" *Journal of Vis. Exp.* e54694 (2017)
48. Houghton, J. L., Membreno, R., Abdel-Atti, D., Cunanan, K. M., Carlin, S., Scholz, W. W., Zanzonico, P. B., Lewis, J. S., Zeglis, B. M.* "Establishment of the In Vivo Efficacy of Pretargeted Radioimmunotherapy Utilizing Inverse Electron Demand Diels-Alder Click Chemistry" *Mol. Cancer Ther.* 16(1), 124 (2017).

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49. Meyer, J.-P., Adumeau, P., Lewis, J.S., Zeglis, B. M.* “Click Chemistry and Radiochemistry: The First Ten Years” *Bioconjugate Chem.* 27, 2791 (2016)
50. Abdolreza, Y., Bilton, H., Vito, A., Genady, A. R., Rathmann, S. M., Zainab, A., Janzen, N., Czorny, S., Zeglis, B. M., Francesconi, L. C., Valliant, J. F. “A Bone-Seeking Trans-Cyclooctene for Pretargeting and Bioorthogonal Chemistry: A Proof-of-Concept Study Using ^{99m}Tc- and ¹⁷⁷Lu-Labeled Tetrazines” *J Med. Chem.* 59, 9381 (2016)
51. Büchel, G. E., Carney, B., Shaffer, T. M., Tung, J., Austin, C., Arora, M., Zeglis, B. M., Grimm, J., Eppinger, J., Reiner, T. “Near-Infrared Intraoperative Chemiluminescence Imaging” *ChemMedChem.* 11(18), 1978 (2016)
52. Adumeau, P., Carnazza, K. E., Brand, C., Carlin, S. D., Reiner, T., Agnew, B. J., Lewis, J. S., Zeglis, B. M.* “A Pretargeted Approach for the Multimodal PET/NIRF Imaging of Colorectal Cancer” *Theranostics* 6(12), 2267 (2016)
53. Cook, B. E., Adumeau, P., Membreno, R., Carnazza, K. E., Brand, C., Reiner, T., Agnew, B. J., Lewis, J. S., Zeglis, B. M.* “Pretargeted PET Imaging Using a Site-Specifically Labeled Immunoconjugate” *Bioconjugate Chem.* 27(8), 1789 (2016)
54. Price, E. W., Edwards, K. J., Carnazza, K. E., Carlin, S. D., Zeglis, B. M., Adam, M. J., Orvig, C., Lewis, J. S. “A Comparative Evaluation of the Chelators H₂Oxapa and CHX-A³-DTPA with the Therapeutic Radiometal ⁹⁰Y” *Nuc. Med. Biol.* 43, 566 (2016)
55. Sharma, S. K., Nemicboka, B., Sala, E., Lewis, J. S., Zeglis, B. M.* “Molecular Imaging of Ovarian Cancer” *J. Nucl. Med.* 57, 827 (2016)
56. Sharma, S. K., Sevak, K. K., Monette, S., Carlin, S. D., Knight, J. C., Wuest, F. R., Sala, E., Zeglis, B. M.*, Lewis, J. S. “Preclinical ⁸⁹Zr-immunoPET for High Grade Serous Ovarian Cancer and Lymph Node Metastasis” *J. Nucl. Med.* 57(6), 771 (2016)
57. Houghton, J. L., Zeglis, B. M., Abdel-Atti, D., Sawada, R., Scholz, W. W., Lewis, J. S. “Pretargeted ImmunoPET of Pancreatic Cancer: Overcoming Circulating Antigen and Antibody Internalization to Reduce Radiation Doses” *J. Nucl. Med.* 57(3), 453 (2016)
58. Adumeau, P., Sharma, S. K., Brent, C., Zeglis, B. M.* “Site-Specifically Labeled Immunoconjugates for Molecular Imaging – Part 2: Peptide Tags and Unnatural Amino Acids” *Mol. Imag. Biol.* 2, 153 (2016)
59. Adumeau, P., Sharma, S. K., Brent, C., Zeglis, B. M.* “Site-Specifically Labeled Immunoconjugates for Molecular Imaging – Part 1: Cysteine Residues and Glycans” *Mol. Imag. Biol.* 18, 1 (2016)
60. Meyer, J.-P., Houghton, J. L., Koslowski, P., Abdel-Atti, D., Reiner, T., Pillarsetty, N. V. K., Scholz, W. W., Zeglis, B. M.*, and Lewis, J. S.* “¹⁸F-Based Pretargeted PET Imaging Based on Bioorthogonal Diels-Alder Click Chemistry” *Bioconjugate Chem.* 27, 298 (2016)
61. Houghton, J. L., Zeglis, B. M., Abdel-Atti, D., Aggeler, A., Sawada, R., Agnew, B. J., Scholz, W. W., Lewis, J. S. “Site-Specifically Labeled CA19.9-Targeted Immunoconjugates for the PET, NIRF, and Multimodal PET/NIRF Imaging of Pancreatic Cancer” *Proc. Nat. Acad. Sci. U.S.A.* 112(52), 15850 (2015)
62. Zeglis, B. M.*, Brand, C. Abdel-Atti, D., Carnazza, K., Cook, B., Carlin, S., Reiner, T., Lewis, J. S.* “Optimization of a Pretargeted Strategy for the PET Imaging of Colorectal Carcinoma via the Modulation of Radioligand Pharmacokinetics” *Mol. Pharm.* 25, 3575 (2015)
63. Zeglis, B. M., Lewis, J. S. “The Bioconjugation and Radiosynthesis of ⁸⁹Zr-DFO-Labeled Antibodies” *Journal of*

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Vis. Exp. 96, e52521 (2015)

64. Reiner, T., Lewis, J. S., Zeglis, B. M.* “Harnessing the Bioorthogonal Inverse Electron Demand Diels-Alder Cycloaddition for Pretargeted PET Imaging” *Journal of Vis. Exp.* 96, e52335 (2015)
65. Zeglis, B. M., Davis, C. B., Abdel-Atti, D., Carlin, S. D., Chen, A., Aggeler, R., Chen, A., Agnew, B., and Lewis, J. S. “Chemoenzymatic Strategy for the Synthesis of Site-Specifically Labeled Immunoconjugates for Multimodal PET and Optical Imaging” *Bioconjugate Chem.* 25, 2123 (2014)
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75. Zeglis, B. M., Sevak, K. K., Reiner, T., Mohindra, P., Carlin, S. D., Zanzonico, P., Weissleder, R., and Lewis, J. S. “A Pretargeted PET Imaging Strategy Based on Bioorthogonal Diels-Alder Click Chemistry” *J. Nucl. Med.* 54(8), 1389 (2013)
76. Zeglis, B. M., Davis, C. B., Aggeler, R., Kang, H. C., Chen, A., Agnew, B., and Lewis, J. S. “An Enzyme-Mediated Methodology for the Site-Specific Radiolabeling of Antibodies Based on Catalyst-Free Click Chemistry” *Bioconjugate Chem.* 24, 1057 (2013)
77. Zeng, D.[§], Zeglis, B. M.[§], Lewis, J. S., and Anderson, C. “The Growing Impact of Bioorthogonal Click Chemistry on the Development of Radiopharmaceuticals” *J. Nucl. Med.* 54(6), 829 (2013) [§]*Co-first authors.*
78. Deri, M. A.[§], Zeglis, B. M.[§], Francesconi, L. C., Lewis, J. S. “PET Imaging with ⁸⁹Zr: From Radiochemistry to the Clinic” *Nucl. Med. Bio.* 40, 3 (2013) [§]*Co-first authors.*

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80. Zeglis, B. M., Mohindra, P., Weissmann, G. I., Divilov, V., Hilderbrand, S. A., Weissleder, R., and Lewis, J. S. "A Modular Strategy for the Construction of Radiometallated Antibodies for Positron Emission Tomography Based on Inverse Electron Demand Diels-Alder Click Chemistry." *Bioconjugate Chem.* 6, 424 (2011)
81. Zeglis, B. M., Pillarsetty, N., Divilov, V., Blasberg, R. A., and Lewis, J. S. "The Synthesis and Evaluation of N¹-(4-(2-[^{18}F]-fluoroethyl)phenyl)-N⁸-hydroxyoctanediamide (^{18}F -FESAHA), A PET Radiotracer Designed for the Delineation of Histone Deacetylase Expression in Cancer." *Nuc. Med. Bio.* 38, 683 (2011)
82. Zeglis, B. M. and Lewis, J. S. "A Practical Guide to the Construction of Radiometallated Bioconjugates for Positron Emission Tomography." *Dalton Trans.*, 40, 6168 (2011)
83. Zeglis, B. M., Divilov, V., and Lewis, J. S. "Role of Metalation in the Topoisomerase II α Inhibition and Antiproliferation Activity of a Series of α -Heterocyclic-N¹-Substituted Thiosemicarbazones and Their Cu(II) Complexes." *J. Med. Chem.*, 54, 2391 (2011)
84. Zeglis, B. M., Kaiser, J. T., Pierre, V. C., and Barton, J. K. "Crystal Structures of a Rhodium Metalloinsertor Bound to an Adenosine-Adenosine Mismatch: General Architecture of the DNA insertion Binding Mode." *Biochemistry*, 48, 4247 (2009).
85. Zeglis, B. M., Boland, J. A., and Barton, J. K. "Recognition of Abasic Sites and Single Base Bulges in DNA by a Metalloinsertor." *Biochemistry*, 38, 39 (2009)
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87. Zeglis, B. M. and Barton, J. K. "Binding of Ru(bpy)₂(eclatin)²⁺ to Matched and Mismatched DNA." *Inorg. Chem.* 47, 6452 (2008)
88. Zeglis, B. M., Pierre, V. P., and Barton, J. K. "Metallointercalators and Metalloinsertors." *Chem. Comm.*, 44, 4565 (2007)
89. Zeglis, B. M. and Barton, J. K. "DNA Base Mismatch Detection with Bulky Rhodium Intercalators: Synthesis and Applications." *Nature Protocols*, 2, 357 (2007)
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91. Greiner, E., Boos, T. L., Prisinzano, T. E., DeMartino, M. G., Zeglis, B. M., Dersch, C. M., Marcus, J., Partilla, J. S., Rothman, R. B., Jacobsen, A. E., Rice, K. C. "Design and Synthesis of Promiscuous High-Affinity Monoamine Transporter Ligands: Unraveling Transporter Selectivity." *J. Med. Chem.*, 49, 1766 (2006)
92. Chianese, A. R., Zeglis, B. M., and Crabtree, R. H. "Unexpected Oxidative C-C Cleavage in the Metallation of 2-substituted Imidazolium Salts to Give N-Heterocyclic Carbene Complexes." *Chem. Comm.*, 19, 2176 (2004)
93. Chianese, A. R., Kovacevic, A., Zeglis, B. M., Faller, J. W., and Crabtree, R. H. "Abnormal C-5 N-Heterocyclic Carbenes: Extremely Strong Donor Ligands and their Iridium(I) and Iridium(III) Complexes." *Organometallics*, 23, 2461 (2004)

Curriculum Vitae

Book Chapters

Zeglis, B. M., Holland, J. P., Lebedev, A. Y., Cantorias, M. V., Lewis, J. S. “Radiopharmaceuticals for Imaging in Oncology with Special Emphasis on Positron-Emitting Agents” in *Nuclear Oncology: Pathophysiology and Clinical Applications*. Strauss W., Mariani G., Volterrani, D., and Larson, S. M., eds. Springer: New York, USA, 2012.

Sarparanta, M., Demoin, D., Cook, B. E., Lewis, J. S., Zeglis, B. M. “Novel Positron-Emitting Radiopharmaceuticals” in *Nuclear Oncology: Pathophysiology and Clinical Applications, 2nd Edition*. Strauss W., Mariani G., Volterrani, D., and Larson, S. M., eds. Springer: New York, USA, 2017.

Goos, J. A. C. M., Keinänen O. M., Zeglis B. M., Lewis J. S. “Radiopharmaceuticals in Oncology” in *Handbook of Radiopharmaceuticals (2nd Edition) - Methodology and Applications*. Scott, P. J. H. and Kilbourn, M. R. Eds. Wiley-Blackwell: Hoboken, USA, 2021.

Keinänen, O., Nash, A. G., Sarrett, S. M., Sarparanta, M., Lewis, J. S., Zeglis, B. M. “Emerging Radiopharmaceuticals in Clinical Oncology” in *Nuclear Oncology: Pathophysiology and Clinical Applications, 3rd Edition*. Strauss W., Mariani G., Volterrani, D., and Larson, S. M., eds. Springer: New York, USA, 2022.

Books

Radiopharmaceutical Chemistry. Lewis, J. S., Windhorst, A. D., and Zeglis, B. M., Eds. Springer: New York, 2019.

Issued Patents

Barton, J. K., Zeglis, B. M., Lau, I. H., Hart, J. R., and Lim, M. H. “Compounds and Methods for Nucleic Acid Mismatch Detection.” U. S. Patent #7,786,298 (Issued August 31, 2010)

Zeglis, B. M., Adumeau, P., and Davydova, M. “Reagent for Site-Selective Bioconjugation of Proteins or Antibodies.” U. S. Patent #11,000,604 (Issued May 11th, 2021)

Zeglis, B. M., Lewis, J. S. Reiner, T., Houghton, J. H., Meyer, J. P., and Brand, C. “Radioligands for Pretargeted PET Imaging and Methods of their Therapeutic Use” U. S. Patent #11,135,320 (Issued October 5th, 2021)

Entrepreneurship

Co-founder, Sharp RTx., Inc. (2021-present)

Teaching

Introduction to Radiochemistry – Spring 2016, Spring 2017

Inorganic Chemistry – Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022

Inorganic Chemistry Laboratory – Spring 2019, Spring 2022

Mentoring

Current Students:

Dr. Outi Keinänen (Postdoctoral Fellow, 2018-)

Ms. Samantha Sarrett (Graduate Student; anticipated graduation – Spring 2023)

Ms. Cindy Rodriguez (Graduate Student; anticipated graduation – Winter 2024)

Ms. Samantha Delaney (Graduate Student; anticipated graduation – Winter 2024)

Mr. Mike Cornejo (Graduate Student; anticipated graduation – Winter 2026)

Ms. Joni Sebastiano (Graduate Student; anticipated graduation – Winter 2026)

Former Postdoctoral Fellows and Graduate Students:

Dr. Aaron Nash (Postdoctoral Fellow 2020-2022, currently a freelance scientific consultant)

Curriculum Vitae

Dr. Sai Kiran Sharma (Postdoctoral Fellow 2015-2019, currently Lead *In Vivo* Imaging Scientist at Regeneron Pharmaceuticals, Inc.)
Dr. Pierre Adumeau (Postdoctoral Fellow 2015-2018, currently Study Director at Oncodesign, Inc.)
Dr. Delphine Vivier (Postdoctoral Fellow 2016-2018, currently Research Fellow at the University of Burgundy, France)
Dr. Brendon Cook (Graduate Student 2015-2018, currently Senior Scientist at Biogen, Inc.)
Dr. Rosemary Cook (née Membreno; Graduate Student 2015-2018, currently Medical Writer at BluPrint Oncology)
Dr. Kimberly Fung (Graduate Student 2015-2019, currently Associate Medical Director at IMPRINT Science)
Dr. Stephen Jannetti (Graduate Student 2015-2019, currently Project Manager at Evergreen Theragnostics)
Dr. Guillaume Dewaele Le Roi (Graduate Student 2018-2022)
Dr. Douglas McPherson (Graduate Student 2018-2022)

Service to the University

Member (2021-Present), Hunter College Research Strategic Planning Committee
Member (2021-Present), Hunter College Senate
Member (2019-Present), Hunter Chemistry Department Personnel and Budget (P&B) Committee
Committee Member (2020), Committee on Developing a Framework for the Undergraduate Honors Thesis
Committee Member (2017), Search Committee for Radiochemistry Faculty Member (Prof. Jennifer Shusterman)
Co-Chair (2017), Hunter College Symposium on Radiometals
Committee Member (2016), Search Committee for Radiochemistry Research Associate (Dr. Ali Younes)

Service to the Scientific Community

NIH Proposal Review

Standing Member, National Institutes of Health, Imaging Probes and Contrast Agents (IPCA) Study Section (2020-2021; 2022-present)
Ad Hoc Member, National Institutes of Health, Center for Molecular Imaging Probe Development (CMIP) Study Section (2017-2020)
Ad Hoc Member, National Institutes of Health, Imaging Guided Interventions and Surgery (IGIS) Study Section (2017-2019)

Editorial Work

Associate Editor, (2020-present), *Molecular Imaging and Biology*
Editorial Board (2016-present), *Journal of Nuclear Medicine*

Other Service

Founding Member (2016) and Chair (2017-2019), Early-Stage Investigators in Molecular Imaging Sciences (ESPMIS) Interest Group, *World Molecular Imaging Society*
Reviewer for several journals, including *Cancer Research*, *Proceedings of the National Academy of Sciences*, *Chemical Communications*, *JACS*, *Journal of Nuclear Medicine*, and *European Journal of Nuclear Medicine*

Presentation of Scientific Work

Weill Cornell Medical College. "Harnessing Click Chemistry for Pretargeted PET Imaging and Radioimmunotherapy" Invited Speaker: May 21st, 2021.
Annual Meeting of the International Society for Radiopharmaceutical Sciences. "Robin Hood and the Merry Pre-Targeters: On the Utility and Promise (or Lack of) Pretargeting Methods" Invited Speaker. Virtual Meeting: May 19th, 2021.
Annual Meeting of the Australia and New Zealand Society of Nuclear Medicine. "Harnessing the Heavy Chain

Curriculum Vitae

Glycans for the Creation of Site-Specifically Modified Radioimmunoconjugates Invited Speaker. Virtual Meeting: August 6th, 2020.

Annual Meeting of the Australia and New Zealand Society of Nuclear Medicine. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker. Virtual Meeting: July 23rd, 2020.

Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging. "Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry" Invited Speaker. Virtual Meeting: June 27th, 2020.

Annual Meeting of the American Association of Physicists in Medicine. "ImmunoPET: Leveraging Antibodies for Diagnostic and Theranostic Nuclear Imaging" Invited Speaker. San Antonio, Texas: July 16th, 2019.

Northeast Regional Meeting of the American Chemical Society. "Pretargeted Radioimmunotherapy with Metallic Radionuclides" Invited Speaker, 'Metals in Medicine' Symposium. Saratoga Springs, New York: June 24th, 2019.

Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging. "Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry" Invited Speaker. Anaheim, California: June 23rd, 2019.

Iona College. "The Emergence of ⁸⁹Zr-ImmunoPET: Harnessing Antibodies for Nuclear Imaging" Invited Speaker, Nanoscience Symposium. New Rochelle, New York: April 9th, 2019.

University of Copenhagen. "Pretargeted Radioimmunotherapy Based on Bioorthogonal Click Chemistry" Invited Speaker. Copenhagen, Denmark: December 6th, 2018.

Stony Brook University. "In Vivo Pretargeting: Performing Radiochemistry within the Body" Invited Speaker. Stony Brook, New York: September 18th, 2018.

Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging. "Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry" Invited Speaker. Philadelphia, Pennsylvania: June 15th, 2018.

Vrije Universiteit Brussel. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker, Workshop in Immuno-Imaging and Molecular Therapy. Brussels, Belgium: April 27th, 2018.

VU University Medical Center Amsterdam. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker. Amsterdam, the Netherlands: April 26th, 2018.

University of California, Los Angeles. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker, Crump Institute of Molecular Imaging. Los Angeles, California: March 26th, 2018.

Annual Meeting of the Radiology Society of North America. "A Primer in ⁸⁹Zr-ImmunoPET" Invited Speaker. Chicago, Illinois: December 1st, 2017.

Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker, Categorical Seminar. Denver, Colorado: June 12th, 2017.

St. Jude Children's Research Hospital. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker, Department of Diagnostic Imaging. Memphis, Tennessee: April 28th, 2017.

St. Jude Children's Research Hospital. "Bioorthogonal Chemistry for Better Radiopharmaceuticals" Invited Speaker, Department of Chemical Biology and Therapeutics. Memphis, Tennessee: April 27th, 2017.

City of Hope Hospital. "In Vivo Pretargeting: Radiosynthesis at the Tumor Surface" Invited Speaker, Department of Molecular Medicine. Duarte, California: April 4th, 2017.

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- California Institute of Technology.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Division of Chemistry and Chemical Engineering. Pasadena, California: April 3rd, 2017.
- University of Missouri Columbia.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Department of Chemical Biology. Columbia, Missouri: March 10th, 2017.
- Annual Meeting of the Radiology Society of North America.* “A Primer in ⁸⁹Zr-ImmunoPET” Invited Speaker. Chicago, Illinois: December 2nd, 2016.
- European Association of Nuclear Medicine Congress.* “Strategies for the Site-Specific Bioconjugation of Antibodies” Invited Categorical Speaker. Barcelona, Spain: October 14th, 2016.
- World Molecular Imaging Congress.* “The Anatomy of a Radioimmunoconjugate” Invited Speaker. New York, NY: September 7th, 2016.
- Annual Symposium of the Memorial Sloan Kettering Cancer Center Imaging and Radiation Sciences Program.* “Harnessing Bioorthogonal Chemistry for Pretargeted Imaging and Therapy” Invited Lecture. New York, NY: May 31st, 2016.
- The University of the West Indies.* “PET Imaging with ⁸⁹Zr” Invited Lecture, Department of Chemistry. Kingston, Jamaica: March 21st, 2016.
- International Workshop in Molecular Imaging.* “Harnessing Bioorthogonal Chemistry for Pretargeted PET Imaging” Invited Speaker. San Sebastian, Spain: November 11th, 2015.
- European Association of Nuclear Medicine Congress.* “Advances in ⁸⁹Zr PET Imaging” Invited Speaker. Hamburg, Germany: October 10th, 2015.
- World Molecular Imaging Congress.* “An Improved Strategy for the Pretargeted PET Imaging of Colorectal Cancer” Oral Presentation. Honolulu, HI: September 4th, 2015.
- American Chemical Society National Meeting. “Site-Specifically Modified ⁸⁹Zr-labeled Antibodies for PET and Multimodal PET/Optical Imaging” Oral Presentation. Boston, MA: August 17th, 2015.
- International Symposium on Technetium and Radiometals in Chemistry and Medicine (TERACHEM).* “The Site-Specific Radiometallation of Antibodies on the Heavy Chain Glycans” Invited Speaker. Bressanone, Italy: September 11, 2014.
- International Conference and Expo on Isotopes.* “The Site-Specific Labeling of Antibodies on the Heavy Chain Glycans” Invited Speaker. Chicago, IL: August 28th, 2014.
- Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging.* “Creating Site-Specifically Labeled Immunoconjugates for Multimodal Imaging Using Bioorthogonal Click Chemistry” Oral Presentation. St. Louis, MO: June 11, 2014.
- Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging.* “Labeling Peptides and Proteins Using Click Chemistry” Invited Speaker, Categorical Seminar. Vancouver, Canada: June 8, 2013.
- Revolutionaries for Global Health Summit.* “⁸⁹Zr-ImmunoPET: Emergent Targets and Clinical Translation.” Invited Speaker. Boston, MA: May 8, 2013.
- World Molecular Imaging Congress.* “A Pre-Targeted ⁶⁴Cu-PET Imaging Methodology Based on the huA33 Antibody and Inverse Electron Demand Diels-Alder Click Chemistry” Oral Presentation. Dublin, Ireland:

Curriculum Vitae

September 8, 2012.

Annual Meeting of the Society of Nuclear Medicine. “Radiometal Chelates and Click Chemistry: The Development of Modular Systems” Invited Speaker, Categorical Seminar. Miami, FL: June 9, 2012.

American Chemical Society National Meeting. “Positron Emission Tomography Imaging of Colorectal Cancer with ⁸⁹Zr-labeled huA33 Antibody” Oral Presentation. San Diego, CA: March 26, 2012.

International Symposium of Radiochemical Sciences. “Diels-Alder Click Chemistry as a Modular Strategy for the Construction of Radiometallated Antibodies for Positron Emission Tomography” Oral Presentation. Amsterdam, Netherlands: August 29, 2011.

Tri-Institutional Seminar Series of Rockefeller University, Weill Cornell Medical School, and Sloan Kettering Institute. “Click Chemistry as Modular Strategy for the Construction of Radiometallated Antibodies for Positron Emission Tomography” Oral Presentation. New York City, New York: March 31, 2011.

Congress of the World Federation of Nuclear Medicine and Biology. “New Radiopharmaceuticals: Availability, Development, and Challenges” Invited Speaker. Cape Town, South Africa: September 20, 2010.