

## *Curriculum Vitae*

**Brian M. Zeglis, Ph.D.**

*Home:* 180 East End Avenue, Apt. 5E  
New York, New York, 10128

E-mail: [bz102@hunter.cuny.edu](mailto:bz102@hunter.cuny.edu)

Lab website: [www.zeglislab.com](http://www.zeglislab.com)

Office phone: 212.896.0443

*Office:* 413 East 69<sup>th</sup> Street, Room BB430  
New York, New York, 10021

### **Scientific Positions**

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

### **Awards and Honors**

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**

National Institutes of Health R01 Award

July 2020 – June 2025

## *Curriculum Vitae*

“Novel Transgenic Mouse Models Addressing Outstanding Translational Barriers in Antibody-Based Therapeutics ” (Subcontract PI)  
*Rockefeller University/Hunter College/CUNY*

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

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

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

### **Completed Support**

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

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

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

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

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

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

National Institutes of Health K99/R00 Career Transition Award July 2014 – June 2018  
“Pretargeted Radioimmunotherapy Based on Bioorthogonal Click Chemistry” (PI)  
*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” (Co-PI)  
*Memorial Sloan Kettering Cancer Center*

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

### Publications

total citations = 4,814; h-index = 38; i10-index = 66; \* denotes co-corresponding author

- 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).
- 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 ImmunoPET” *Bioconjugate Chemistry*. Online Ahead of Print (2021).
- 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).
- 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).
- 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).
- 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).
- 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).
- 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 <sup>64</sup>Cu/<sup>67</sup>Cu for a Theranostic Approach to Pretargeted

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- Radioimmunotherapy” *Proceedings of the National Academic of Sciences of the United States of America*. 117(45), 28316 (2020).
9. Fung, K., Sharma, S. K., Keinänen, O., Long Roche, K., Lewis, J. S., Zeglis, B. M. “A Moleculuarly Targeted Intraoperative Near-Infrared Fluorescence Imaging Agent for High-Grade Serous Ovarian Cancer” *Molecular Pharmaceutics*. 17, 3140 (2020).
  10. Fung, K., Vivier, D., Keinänen, O., Sarbisheh, E. K., Price, E. W., Zeglis, B. M. “<sup>89</sup>Zr-Labeled AR20.5: A MUC1-Targeting ImmunoPET Probe” *Molecules*. 25, 2315 (2020).
  11. White, J. M., Keinänen, O. M., Cook, B. E., Zeglis, B. M., Gibson, H. M., Viola, N. T. “Removal of Fc Glycans from [<sup>89</sup>Zr]Zr-DFO-anti-CD8 Prevents Peripheral Depletion of CD8<sup>+</sup> T Cells” *Molecular Pharmaceutics*. 17(6), 2099 (2020).
  12. 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 <sup>89</sup>Zr-pertuzumab PET/CT” *Radiology*. 296, 370 (2020).
  13. 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 <sup>68</sup>Ga with Tris(hydroxypyridinone) Chelators: Pretargeting and Blood Clearance” *International Journal of Molecular Sciences*. 21, 1496 (2020)
  14. 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)
  15. 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)
  16. 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 <sup>89</sup>Zr-DFO-Pertuzumab” *Theranostics*. 10(4), 1746 (2020)
  17. 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).
  18. 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).
  19. 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).
  20. 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).
  21. 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).
  22. 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,

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e59063 (2019).

23. 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).
24. 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 <sup>225</sup>Ac-Radioimmunotherapy of Pancreatic Ductal Adenocarcinoma” *Clin. Can. Res.* 25(2), 868 (2019).
25. Cook, B. E., Membreno, R. M., Zeglis, B. M. “Dendrimer Scaffold for the Amplification of In Vivo Pretargeting Ligations” *Bioconjugate Chem.* 29, 2734 (2018).
26. 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).
27. 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).
28. 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 <sup>89</sup>Zr-Pertuzumab PET/CT: Dosimetry and Clinical Application in Patients with Breast Cancer” *J. Nucl. Med.* 59, 900 (2018).
29. 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).
30. 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).
31. 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).
32. 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).
33. 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 <sup>225</sup>Ac-Labelled Radioimmunoconjugates” *Chem. Comm.* 54, 2599-2602 (2018).
34. 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 <sup>18</sup>F-tetrazine Tracer in Xenograft Models” *Euro. J. Nucl. Med. Mol. Imag. Res.* 7, 95 (2017).
35. Meyer, J. -P., Kozlowski, 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).
36. Altai, M., Membreno, R., Cook, B., Tolmachev, V., Zeglis, B. M.\* “Pretargeted Imaging and Therapy” *J Nucl. Med.* 58(10), 1553 (2017).
37. Sharma, S. K., Pourat, J., Abdel-Atti, D., Carlin, S., Piersigilli, A., Bankovich, A. J., Gardner, E. E., Hamdy, O.,

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- 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).
38. Zeglis, B. M.\*, Vugts, D. J.\* “ESPMIS: Helping Young Scientists Navigate the Molecular Imaging Landscape” *Mol. Imag. Biol.* 19, 325 (2017).
39. 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)
40. 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).
41. Meyer, J.-P., Adumeau, P., Lewis, J.S., Zeglis, B. M.\* “Click Chemistry and Radiochemistry: The First Ten Years” *Bioconjugate Chem.* 27, 2791 (2016)
42. 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 <sup>99m</sup>Tc- and <sup>177</sup>Lu-Labeled Tetrazines” *J Med. Chem.* 59, 9381 (2016)
43. 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)
44. 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)
45. 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)
46. 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 H<sub>3</sub>Octapa and CHX-A<sup>3</sup>-DTPA with the Therapeutic Radiometal <sup>90</sup>Y” *Nuc. Med. Biol.* 43, 566 (2016)
47. Sharma, S. K., Nemieboka, B., Sala, E., Lewis, J. S., Zeglis, B. M.\* “Molecular Imaging of Ovarian Cancer” *J. Nucl. Med.* 57, 827 (2016)
48. 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 <sup>89</sup>Zr-immunoPET for High Grade Serous Ovarian Cancer and Lymph Node Metastasis” *J. Nucl. Med.* 57(6), 771 (2016)
49. 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)
50. 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)
51. 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)

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52. 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.\* “<sup>18</sup>F-Based Pretargeted PET Imaging Based on Bioorthogonal Diels-Alder Click Chemistry” *Bioconjugate Chem.* 27, 298 (2016)
53. 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)
54. 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)
55. Zeglis, B. M., Lewis, J. S. “The Bioconjugation and Radiosynthesis of <sup>89</sup>Zr-DFO-Labeled Antibodies” *Journal of Vis. Exp.* 96, e52521 (2015)
56. 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)
57. 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)
58. Daumar, P., Zeglis, B. M., Ramos, N., Divilov, V., Sevak, K. K., Pillarsetty, N., Lewis, J. S. “Synthesis and Evaluation of <sup>18</sup>F-labeled ATP Competitive Inhibitors of Topoisomerase II as Probes for Imaging Topoisomerase II Expression” *Eur. J. Med. Chem.* 86, 769 (2014)
59. Price, E. W., Zeglis, B. M., Cawthray, J., Lewis, J. S., Adam, M., Orvig, C. “What a Difference a Carbon Makes: H<sub>2</sub>O<sub>8</sub> vs. C<sub>3</sub>H<sub>7</sub>O<sub>8</sub>, Ligands for <sup>111</sup>In and <sup>177</sup>Lu Radiochemistry” *Inorg. Chem.* 53, 10412 (2014)
60. Wagner, T., Zeglis, B. M., Groveman, S., Francesconi, L.C., Hermann, W. A., Kuhn, F. E., Reiner, T. “Synthesis of the first radiolabeled <sup>188</sup>Re N-heterocyclic carbene complex and initial studies on its potential use in radiopharmaceutical applications” *J. Label. Cmpd. Radiopharm.* 57, 441 (2014)
61. Deri, M., Ponnala, S., Zeglis, B. M., Pohl, G., Dannenberg, J.J., Lewis, J. S., Francesconi, L. C. “An Alternative Chelator for <sup>89</sup>Zr Radiopharmaceuticals: Radiolabeling and Evaluation of 3,4,3-(LI-1,2-HOPO)” *J. Med. Chem.* 57, 4849 (2014)
62. Zeglis, B. M., Emmetiere, F., Pillarsetty, N., Weissleder, R., Lewis, J. S., Reiner, T. “Building Blocks for the Construction of Bioorthogonally Reactive Peptides via Solid Phase Peptide Synthesis” *Chem. Open.* 3, 48 (2014)
63. Reiner, T., and Zeglis, B. M.\* “The Inverse Electron Demand Diels-Alder Click Reaction in Radiochemistry” *J. Labl. Cmpd. Radiopharm.* 57(4), 285 (2014)
64. Zeglis, B. M., Houghton, J. L., Evans, M. J., Viola-Villegas, N., Lewis, J.S. “Underscoring the Influence of Inorganic Chemistry on Nuclear Imaging with Radiometals.” *Inorg. Chem.* 53(4), 1880 (2014)
65. Price, E. W., Zeglis, B. M., Lewis, J. S., Adam, M. J., and Orvig, C. “H<sub>2</sub>phospa-Trastuzumab: A Bifunctional Methylene phosphonate-based Chelator with <sup>89</sup>Zr, <sup>111</sup>In and <sup>177</sup>Lu.” *Dalton Trans.* 43, 119 (2014)
66. Price, E. W., Zeglis, B. M., Cawthray, J. F., Ramogida, C. F., Ramos, N., Lewis, J. S., Adam, M. J., and Orvig, C. “H<sub>2</sub>octapa-Trastuzumab: The Application of a Versatile Acyclic Chelate System for <sup>111</sup>In and <sup>177</sup>Lu Imaging and Therapy.” *J. Am. Chem. Soc.* 135(34), 12707 (2013)

## Curriculum Vitae

67. 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)
68. 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)
69. Zeng, D.<sup>§</sup>, Zeglis, B. M.<sup>§</sup>, 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) <sup>§</sup>Co-first authors.
70. Deri, M. A.<sup>§</sup>, Zeglis, B. M.<sup>§</sup>, Francesconi, L. C., Lewis, J. S. "PET Imaging with <sup>89</sup>Zr: From Radiochemistry to the Clinic" *Nucl. Med. Bio.* 40, 3 (2013) <sup>§</sup>Co-first authors.
71. Bailey, G. A., Price, E. W., Zeglis, B. M., Ferreira, C. L., Boros, E., Lacasse, M. J., Patrick, B. O., Lewis, J. S., Adam, M. J., and Orvig, C. "Hazapa: A Versatile Acyclic Multifunctional chelator for <sup>67</sup>Ga, <sup>64</sup>Cu, <sup>111</sup>In, and <sup>177</sup>Lu" *Inorg. Chem.* 51, 12575 (2012)
72. 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)
73. Zeglis, B. M., Pillarsetty, N., Divilov, V., Blasberg, R. A., and Lewis, J. S. "The Synthesis and Evaluation of N<sup>1</sup>-(4-(2-[<sup>18</sup>F]-fluoroethyl)phenyl)-N<sup>8</sup>-hydroxyoctanediamide ([<sup>18</sup>F]-FESAHA), A PET Radiotracer Designed for the Delineation of Histone Deacetylase Expression in Cancer." *Nuc. Med. Bio.* 38, 683 (2011)
74. 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)
75. Zeglis, B. M., Divilov, V., and Lewis, J. S. "Role of Metalation in the Topoisomerase II $\alpha$  Inhibition and Antiproliferation Activity of a Series of  $\alpha$ -Heterocyclic-N<sup>1</sup>-Substituted Thiosemicarbazones and Their Cu(II) Complexes." *J. Med. Chem.*, 54, 2391 (2011)
76. 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).
77. 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)
78. Zeglis, B. M., Boland, J. A., and Barton, J. K. "Targeting Abasic Sites and Single Base Bulges in DNA with Metalloinsertors." *J. Am. Chem. Soc.* 130, 7530 (2008)
79. Zeglis, B. M. and Barton, J. K. "Binding of Ru(bpy)<sub>2</sub>(eilatIn)<sup>2+</sup> to Matched and Mismatched DNA." *Inorg. Chem.* 47, 6452 (2008)
80. Zeglis, B. M., Pierre, V. P., and Barton, J. K. "Metallointercalators and Metalloinsertors." *Chem. Comm.*, 44, 4565 (2007)
81. 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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82. Zeglis, B. M. and Barton, J. K. "A Mismatch-selective Bifunctional Rhodium-Oregon Green Conjugate: A Fluorescent Probe for Mismatched DNA." *J. Am. Chem. Soc.*, 128, 5654 (2006)
83. 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)
84. 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)
85. 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)

### **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, 2<sup>nd</sup> 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 (2<sup>nd</sup> 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, 3<sup>rd</sup> Edition*. Strauss W., Mariani G., Volterrani, D., and Larson, S. M., eds. Springer: New York, USA, 2021.

### **Books**

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

### **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 11<sup>th</sup>, 2021)

### **Patent Applications**

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 Application #US20190091351A1

### **Entrepreneurship**

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

# *Curriculum Vitae*

## Teaching

*Introduction to Radiochemistry* – Spring 2016, Spring 2017

*Inorganic Chemistry* – Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020

*Inorganic Chemistry Laboratory* – Spring 2019

## Mentoring

### *Current Students:*

Dr. Outi Keinänen (Postdoctoral Fellow, 2018-)

Dr. Aaron Nash (Postdoctoral Fellow, 2020-)

Mr. Guillaume Dewaele Le Roi (Graduate Student; anticipated graduation – Winter 2021)

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

Ms. Douglas McPherson (Graduate Student; anticipated graduation – Winter 2023)

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

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

Mr. Eric Days (Undergraduate Student, Hunter College)

Ms. Samantha-Marie Helmy (Undergraduate Student, Hunter College)

Ms. Paulina Daugis (Undergraduate Student, Hunter College)

Ms. Sarah Thau (High School Student, Packer Institute)

### *Former Postdoctoral Fellows and Graduate Students:*

Dr. Sai Kiran Sharma (Postdoctoral Fellow 2015-2019, currently a Lead *In Vivo* Imaging Scientist at Regeneron Pharmaceuticals, Inc.)

Dr. Pierre Adumeau (Postdoctoral Fellow 2015-2018, currently a Research Fellow at the University of Burgundy, France)

Dr. Delphine Vivier (Postdoctoral Fellow 2016-2018, currently a Research Fellow at the University of Burgundy, France)

Dr. Brendon Cook (Graduate Student 2015-2018, currently a Staff Scientist at Biogen, Inc.)

Dr. Rosemary Membreno (Graduate Student 2015-2018, currently the Editorial and Scientific Content Manager at the World Molecular Imaging Society)

Dr. Kimberly Fung (Graduate Student 2015-2019, currently a Scientific Associate at IMPRINT Science)

Dr. Stephen Jannetti (Graduate Student 2015-2019, currently a Research Fellow at Duke University)

## Service to the University

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)

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)

## Curriculum Vitae

### 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 21<sup>st</sup>, 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 19<sup>th</sup>, 2021.

*Annual Meeting of the Australia and New Zealand Society of Nuclear Medicine*. “*Harnessing the Heavy Chain Glycans for the Creation of Site-Specifically Modified Radioimmunoconjugates*” Invited Speaker. Virtual Meeting: August 6<sup>th</sup>, 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 23<sup>rd</sup>, 2020.

*Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging*. “*Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry*” Invited Speaker. Virtual Meeting: June 27<sup>th</sup>, 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 16<sup>th</sup>, 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 24<sup>th</sup>, 2019.

*Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging*. “*Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry*” Invited Speaker. Anaheim, California: June 23<sup>rd</sup>, 2019.

*Iona College*. “*The Emergence of <sup>89</sup>Zr-ImmunoPET: Harnessing Antibodies for Nuclear Imaging*” Invited Speaker, Nanoscience Symposium. New Rochelle, New York: April 9<sup>th</sup>, 2019.

*University of Copenhagen*. “*Pretargeted Radioimmunotherapy Based on Bioorthogonal Click Chemistry*” Invited Speaker. Copenhagen, Denmark: December 6<sup>th</sup>, 2018.

*Stony Brook University*. “*In Vivo Pretargeting: Performing Radiochemistry within the Body*” Invited Speaker. Stony Brook, New York: September 18<sup>th</sup>, 2018.

*Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging*. “*Highlights Lecture for Radiopharmacy and Radiopharmaceutical Chemistry*” Invited Speaker. Philadelphia, Pennsylvania: June 15<sup>th</sup>, 2018.

## *Curriculum Vitae*

*Vrije Universiteit Brussel.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Workshop in Immuno-Imaging and Molecular Therapy. Brussels, Belgium: April 27<sup>th</sup>, 2018.

*VU University Medical Center Amsterdam.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker. Amsterdam, the Netherlands: April 26<sup>th</sup>, 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 26<sup>th</sup>, 2018.

*Annual Meeting of the Radiology Society of North America.* “A Primer in <sup>89</sup>Zr-ImmunoPET” Invited Speaker. Chicago, Illinois: December 1<sup>st</sup>, 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 12<sup>th</sup>, 2017.

*St Jude Children’s Research Hospital.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Department of Diagnostic Imaging. Memphis, Tennessee: April 28<sup>th</sup>, 2017.

*St Jude Children’s Research Hospital.* “Bioorthogonal Chemistry for Better Radiopharmaceuticals” Invited Speaker, Department of Chemical Biology and Therapeutics. Memphis, Tennessee: April 27<sup>th</sup>, 2017.

*City of Hope Hospital.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Department of Molecular Medicine. Duarte, California: April 4<sup>th</sup>, 2017.

*California Institute of Technology.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Division of Chemistry and Chemical Engineering. Pasadena, California: April 3<sup>rd</sup>, 2017.

*University of Missouri Columbia.* “*In Vivo* Pretargeting: Radiosynthesis at the Tumor Surface” Invited Speaker, Department of Chemical Biology. Columbia, Missouri: March 10<sup>th</sup>, 2017.

*Annual Meeting of the Radiology Society of North America.* “A Primer in <sup>89</sup>Zr-ImmunoPET” Invited Speaker. Chicago, Illinois: December 2<sup>nd</sup>, 2016.

*European Association of Nuclear Medicine Congress.* “Strategies for the Site-Specific Bioconjugation of Antibodies” Invited Categorical Speaker. Barcelona, Spain: October 14<sup>th</sup>, 2016.

*World Molecular Imaging Congress.* “The Anatomy of a Radioimmunoconjugate” Invited Speaker. New York, NY: September 7<sup>th</sup>, 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 31<sup>st</sup>, 2016.

*The University of the West Indies.* “PET Imaging with <sup>89</sup>Zr” Invited Lecture, Department of Chemistry. Kingston, Jamaica: March 21<sup>st</sup>, 2016.

*International Workshop in Molecular Imaging.* “Harnessing Bioorthogonal Chemistry for Pretargeted PET Imaging” Invited Speaker. San Sebastian, Spain: November 11<sup>th</sup>, 2015.

*European Association of Nuclear Medicine Congress.* “Advances in <sup>89</sup>Zr PET Imaging” Invited Speaker. Hamburg, Germany: October 10<sup>th</sup>, 2015.

## *Curriculum Vitae*

*World Molecular Imaging Congress.* “An Improved Strategy for the Pretargeted PET Imaging of Colorectal Cancer” Oral Presentation. Honolulu, HI: September 4<sup>th</sup>, 2015.

American Chemical Society National Meeting. “Site-Specifically Modified <sup>89</sup>Zr-labeled Antibodies for PET and Multimodal PET/Optical Imaging” Oral Presentation. Boston, MA: August 17<sup>th</sup>, 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 28<sup>th</sup>, 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.* “<sup>89</sup>Zr-ImmunoPET: Emergent Targets and Clinical Translation.” Invited Speaker. Boston, MA: May 8, 2013.

*World Molecular Imaging Congress.* “A Pre-Targeted <sup>64</sup>Cu-PET Imaging Methodology Based on the huA33 Antibody and Inverse Electron Demand Diels-Alder Click Chemistry” Oral Presentation. Dublin, Ireland: 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 <sup>89</sup>Zr-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.