

Stanford



Aimen Zlitni

Postdoctoral Research Fellow, Radiology

Bio

HONORS AND AWARDS

- Student travel Award, World Molecular Imaging Congress (2018)
- Vevo Travel Award, Molecular Imaging Track, Fujifilm/VisualSonics (2018)
- Faculty of Health Sciences Graduate Programs Outstanding Thesis Award, McMaster University (2017)
- Faculty of Health Sciences Graduate Programs Excellence Award, McMaster University (2016)
- McMaster Graduate Studies International Excellence Award, McMaster University (2014-2015)
- Outstanding Oral Presentation Award, Faculty of Health Sciences, McMaster University (2014)
- Chemical Biology Travel Award, McMaster University (2012-2013)
- McMaster Graduate Studies International Excellence Award, McMaster University (2012-2013)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, McMaster University (2016)
- Bachelor of Science, King Saud University (2009)

STANFORD ADVISORS

- Sanjiv Gambhir, Postdoctoral Research Mentor
- Sanjiv Gambhir, Postdoctoral Faculty Sponsor

PATENTS

- Aimen Zlitni, John F. Valliant. "Canada Targeted Molecular Imaging Contrast Agents.", Aug 1, 2015

Research & Scholarship

PROJECTS

- The development and evaluation of probes for multimodal molecular imaging of bacterial infections - Stanford University (12/2016 - present)
- The preparation and evaluation of nanobubbles for photo-acoustic and Ultrasound molecular imaging of cancer - Stanford University (9/1/2016 - present)

Publications

PUBLICATIONS

- **Molecular imaging agents for ultrasound.** *Current opinion in chemical biology*
Zlitni, A., Gambhir, S. S.
2018; 45: 113–20

- **Molecular imaging agents for ultrasound** *Current Opinion in Chemical Biology*
Zlitni, A., Gambhir, S. S.
2018; 45: 113-120
- **Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry.** *PloS one*
Zlitni, A., Yin, M., Janzen, N., Chatterjee, S., Lisok, A., Gabrielson, K. L., Nimmagadda, S., Pomper, M. G., Foster, F. S., Valliant, J. F.
2017; 12 (5): e0176958
- **In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures.** *Molecular imaging and biology : MIB : the official publication of the Academy of Molecular Imaging*
Le Floch, J., Zlitni, A., Bilton, H. A., Yin, M., Farhadi, A., Janzen, N. R., Shapiro, M. G., Valliant, J. F., Foster, F. S.
2017
- **Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverse-Electron-Demand Diels-Alder Reactions** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
Zlitni, A., Janzen, N., Foster, F. S., Valliant, J. F.
2014; 53 (25): 6459-6463
- **Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1.** *Proceedings of the National Academy of Sciences of the United States of America*
Hsu, E. C., Rice, M. A., Bermudez, A., Marques, F. J., Aslan, M., Liu, S., Ghoochani, A., Zhang, C. A., Chen, Y. S., Zlitni, A., Kumar, S., Nolley, R., Habte, et al
2020
- **I-125-Tetrazines and Inverse-Electron-Demand Diels-Alder Chemistry: A Convenient Radioiodination Strategy for Biomolecule Labeling, Screening, and Biodistribution Studies** *BIOCONJUGATE CHEMISTRY*
Albu, S. A., Al-Karmi, S. A., Vito, A., Dzandzi, J. P., Zlitni, A., Beckford-Vera, D., Blacker, M., Janzen, N., Patel, R. M., Capretta, A., Valliant, J. F.
2016; 27 (1): 207-216
- **Synthesis, characterization and radiolabeling of carborane-functionalized tetrazines for use in inverse electron demand Diels-Alder ligation reactions** *JOURNAL OF ORGANOMETALLIC CHEMISTRY*
Genady, A. R., Tan, J., El-Zaria, M. E., Zlitni, A., Janzen, N., Valliant, J. F.
2015; 791: 204-213
- **The synthesis, magnetic purification and evaluation of Tc-99m-labeled microbubbles** *NUCLEAR MEDICINE AND BIOLOGY*
Lazarova, N., Causey, P. W., Lemon, J. A., Czorny, S. K., Forbes, J. R., Zlitni, A., Genady, A., Foster, F. S., Valliant, J. F.
2011; 38 (8): 1111-1118

PRESENTATIONS

- Catching Bubbles. A new approach for targeting ultrasound contrast agents using bioorthogonal chemistry - World Molecular Imaging Congress (September 19, 2014)
- Catching Bubbles, a new approach to ultrasound molecular imaging of cancer - Faculty of Health Sciences Research Plenary, McMaster University (May 20, 2014)
- Using bubbles for molecular ultrasound imaging of prostate cancer - 3 minute thesis (3MT) competition Finals, McMaster University (February 13, 2014)
- A Convenient Platform for the Preparation of Targeted and Labeled Ultrasound Contrast Agents - Imaging Network Ontario (ImNO) (February 4, 2013)
- The Development and Evaluation of Multimodality Imaging Probes for US, SPECT and Optical Imaging - Society of Nuclear Medicine and Molecular Imaging (SNMMI) (June 11, 2013)
- Developing a Platform for the use of Microbubbles for Molecular, Optical and Ultrasound Imaging - Imaging Network Ontario (ImNO) (February 14, 2012)