

SAMUEL K. MARITIM

300 Cedar Street, Magnetic Resonance Research Center. New Haven, CT. 06511. 8607103754. samuel.maritim@yale.edu.

EDUCATION

Yale University, New Haven, CT.

- Ph.D., Biomedical engineering 08/13-12/17
- M.Phil., Biomedical Engineering 12/15
- M.S., Biomedical Engineering 05/15

Wesleyan University, Middletown, CT

- MA, Chemistry 05/ 11
- B.A., Chemistry 05/ 10

Relevant coursework

- Thoracic oncology, Molecular basis of cancer, Understanding Cancer metastasis, Imaging of Drugs in the Brain, Fundamentals of Neuroimaging, Physics of MR Spectroscopy, Chemical and Physical Basis of Biosensing, Molecular Biophysics, Material Chemistry and Nanoscience, Organic Chemistry, Advanced Inorganic Chemistry, Molecular Biophysics journal club, Scientific Research Ethics, Structure and Mechanism, Physiological systems, Introduction to Nanotechnology, Biomaterial-tissue interaction, Biophysical Spectroscopy, Neuroimaging in Neuropsychiatry II: Clinical Applications, Design and interpretation of clinical trials.

Publications:

- Huang, Y.; **Maritim, S.**; Coman, D.; Rojas-Quijano, F.A.; Jurek, P.; Hyder, F., Kiefer, G. E., Methylated Tetraamide Derivatives of Paramagnetic Complexes for Dual Biosensing with Biosensor Imaging of Redundant Deviation in Shifts (BIRDS) and Chemical Exchange Saturation Transfer (CEST). *To be submitted* **03/2017**
- Hoque, S. M.; Huang, Y.; Cocco, E.; **Maritim, S.**; Santin, A. D.; Shapiro, E. M.; Coman, D.; Hyder, F., Improved specific loss power on cancer cells by hyperthermia and MRI contrast of hydrophilic Fex Co1-x Fe2 O4 nanoensembles. *Contrast media & molecular imaging* **2016**
- Huang, Y.; Coman, D.; Herman, P.; Rao, J. U.; **Maritim, S.**; Hyder, F., Towards longitudinal mapping of extracellular pH in gliomas. *NMR in biomed.* **2016**.
- Huang Y, Herman P, Coman D, **Maritim S**, Hyder F. Biodistribution of lanthanide-based MRI contrast agents assessed by BIRDS. *Proc. Intl. Soc. Mag. Reson. Med.* 23:4661. **2015**.
- **Maritim, S.**; Huang, Y.; Coman, D.; Hyder, F., Characterization of a lanthanide complex encapsulated with MRI contrast agents into liposomes for biosensor imaging of redundant deviation in shifts (BIRDS). *Journal of biological inorganic chemistry : JBIC* **2014**.
- **Maritim, S.**; Coman, D.; Huang, Y.; Hoque, M.; Hyder, F. *Molecular imaging beyond contrast generation: Utility of BIRDS*. *Proc. Intl. Soc. Mag. Reson. Med.* 21:1901. **2013**
- **Maritim S.** Synthesis and analysis of Iron III complexes for potential use as smart MRI contrast agents. *Submitted to Wesleyan University in partial fulfillment for requirements for master's thesis.* **2011**

Refereed Conference Presentations

- 2017 International Society of Magnetic Resonance in Medicine, Oral presentation – Honolulu, HI
- 2017 Brain conference, Biomarkers section – Berlin
- 2016- Guest Seminar speaker; Wesleyan university; Middletown, CT.
- 2016- Gordon Research conference on In Vivo Magnetic Resonance – Andover, NH
- 2014 Gordon Research conference on In Vivo Magnetic Resonance – Andover, NH.
- 2013 International Society of Magnetic Resonance in Medicine, Salt lake City, UT.
- 2013 Biological Materials Science Symposium, San Antonio, TX.
- 2012 OctoberCEST International Workshop on Chemical Exchange Saturation Transfer Imaging, Baltimore, MD.
- 2009 National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE) Cambridge, MA.