

David Richardson
University of Central Florida
Office: (407) 823-2961
Email: david.richardson@ucf.edu
<http://chemistry.cos.ucf.edu/nmr>

Education

Ph.D. Analytical Chemistry

University of Florida, Gainesville, FL – May 2010

Research Advisor: Dr. Wallace S. Brey

Dissertation Title: *The Relative Signs of Coupling Constants in Fluorinated Cyclopropanes and the Aggregation of Amyloid- β (25-35) Peptide*

Forensic Toxicology Certificate

University of Florida, Gainesville, FL – June 2006

B.S. Chemistry

University of Florida, Gainesville, FL – December 2001

Undergraduate Research Advisor: Dr. Wallace S. Brey

Employment

October 2010 – Present:

NMR Instrumentation Specialist

Department of Chemistry – University of Central Florida, Orlando, FL

May 2010 – October 2010:

Postdoctoral Researcher

Department of Chemistry – University of Florida, Gainesville, FL

Supervisor: Dr. Russ Bowers

August 2003 – May 2010:

NMR Facility Instructor/Graduate Student

Department of Chemistry – University of Florida, Gainesville, FL

Supervisors: Research - Dr. Wallace S. Brey

NMR Facility - Dr. Ion Ghiviriga

January 2002 – August 2003:

NMR Spectroscopist

Department of Chemistry – University of Florida, Gainesville, FL

Supervisor: Dr. Wallace S. Brey

June 2000 – December 2001:

Undergraduate Research Assistant

Department of Chemistry – University of Florida, Gainesville, FL

Supervisor: Dr. Wallace S. Brey

Publications

Basumallick, S.; Nogueira Campos, M. G.; Richardson, D.; Gesquiere, A.; Santra, S. "Hydrothermally Treated Chitosan Spontaneously Forms Water-soluble Spherical Particles Stable at a Wide pH Range" *International Journal of Polymeric Materials and Polymeric Biomaterials*, 2016, *65*, 751-758

Craig, W.; Chen, J.; Richardson, D.; Thorpe, R.; Yuan, Y. "A Highly Stereoselective and Scalable Synthesis of l-allo-Enduracididine" *Organic Letters*, 2015, *17*, 4620-4623

Zheng, Y.; Cleaveland, J.; Richardson, D.; Yuan, Y. "An Organocatalysis Based Carbocyclic Spiroindoline Synthesis Enables Facile Structure-Activity Relationship (SAR) Study at C2 Position" *Organic Letters*, 2015, *17*, 4240-4243

Barkam, S.; Soumen, D.; Saraf, S.; McCormack, R.; Richardson, D.; Atentio, L.; Moosavifazel, V.; Seal, S. "The Change in Antioxidant Properties of Dextran-Coated Redox-Active Nanoparticles Due to Synergetic Photo-reduction/oxidation" *Chemistry – A European Journal*, 2015, *21*, 12646-12656

Zadeh, E.H.G.; Woodward, A.W.; Richardson, D.; Bondar, M.; Belfield, K.D. "Stimuli-Responsive Cyclopenta[ef]heptalenes: Synthesis and Optical Properties" *European Journal of Organic Chemistry*, 2015, *10*, 2271-2276

Reid, D.L.; Draper, R.; Richardson, D.; Demko, A.; Allen, T.; Petersen, E.L; Seal, S. "In Situ synthesis of polyurethane-TiO₂ nanocomposite and performance in solid propellants" *The Journal of Materials Chemistry A*, 2014, *2*, 2313-2322

Harper, J.K.; Tishler, D.; Richardson, D.; Lokvam, J.; Pendrill, R.; Widmalm, G. "Solid-state NMR Characterization of Molecular Conformation in Disordered Methyl α -L-rhamnofuranoside" *The Journal of Physical Chemistry A*, 2013, *117*, 5534-5541

Brey, W. S.; Richardson, D.; Bechtel, B.; Aksenov, A. "Spin-spin coupling and substituent and halogen isotope shift effects in the fluorine NMR spectra of fluorinated cyclopropanes and cyclopropyl ethers" *Magnetic Resonance in Chemistry*, 2007, *45*, 205-219

Brey, W. S; Richardson, D. W.; West, J. "NMR spectra of 1,3,5-triazines with fluorinated substituents" *Journal of Fluorine Chemistry*, 2004, *125*, 755-761

Awards

University of Florida Department of Chemistry Excellence in Teaching 2008-09.