

## Publications

(undergraduate co-authors denoted with an asterisk, graduate co-authors are denoted with two asterisks)

1. Miranda, J.A.; Gherman, B.F.; Yates, J.M.\*\*; Fell, J.S\*\*. "Metal-Salens as Catalysts in Electroreductive Cyclization and Electrohydrocyclization: Computational and Experimental Studies", *J. Electrochem. Soc.* **2013**, *160*(7), G3080-G3090.
2. Miranda, J.A.; Gherman, B.F.; Yates, J.M.\*\*; Fell, J.S.\*\* "Metal-Salens as Catalysts in Electroreductive Cyclization and Electrohydrocyclization: Computational and Experimental Studies", *ECS Trans.* **2013**, *50*(29), 5-15.
3. Miranda, J.A. ; Gherman, B.F.; Bateni, S.B.\*; England, K.R.\*; Galatti, A.T.\*; Kaur, H.\*; Mendiola, A.R.\*; Hu, M.H.\* "Prediction of Reduction Potentials from Calculated Electron Affinities for Metal-Salen Compounds", *Beilstein J. Org. Chem.* **2009**, *5*, No. 82.
4. Miranda, J.A. ; Little, R.D. "Investigation of vinylcyclopropane monoradical cyclization - fragmentation as a possible route towards eight-membered rings", *Heterocycles*, **2006**, *70*, 169-175.
5. Miranda, J.A.; Wade, C.J.\*; Little, R.D. "Indirect Electroreductive Cyclization and Electrohydrocyclization Using Catalytic Reduced Nickel (II) Salen", *J. Org. Chem.*, **2005**, *70*(20), 8017.
6. Russu, W.A.; Wang, V.R.; Villalon, V.P.; Miranda, J.A.; Little, R.D. "Inter- and Intramolecular [4+3] Cycloaddition to TMM-Diradicals", *Tetrahedron Lett.* **2002**, *43*, 8459.
7. Leon, D.; Uridil, S.; Miranda, J. "Structural Analysis and Modeling of proteins on the Web: an investigation for biochemistry undergraduates", *Journal of Chemical Education* **1998**, *75*(6), 731-734.

## Presentations

(presenter underlined; undergraduate students denoted with an asterisk; graduate students denoted with two asterisks)

1. B. E. Silva\*, B. F. Gherman, J. A. Miranda. "Computational Study of the Mechanism of Metal-Salen Mediated Electroreductive Cyclization Reactions." (poster) 248th American Chemical Society National Meeting; San Francisco, California; August 2014.
2. B. E. Silva\*, B. F. Gherman, J. A. Miranda. "Computational Study of the Mechanism of Metal-Salen Mediated -Benjamin F. Gherman, page 6- Electroreductive Cyclization Reactions." (poster) 26th Annual Undergraduate American Chemical Society Research Conference for Northern California; San Francisco, California; May 2014.
3. D. Cheng\*; J.A. Miranda. "Study of Stereoselectivity in Epoxidation of Olefins by mCPBA or O<sub>2</sub> with Mo<sub>3</sub>(u<sub>3</sub>-CCH<sub>3</sub>)(u<sub>3</sub>-O)" (poster) 26<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; San Francisco, California; May 2014.

4. L. Littell\*; S. Rocha\*; J.A. Miranda. "Stereoselective Electrohydrocyclization (EHC) Using Zinc and Nickel Electrocatalysts" (poster) 26th California State University Biotechnology Symposium; Santa Clara, California; January 2014.
5. L. Littell\*; J.A. Miranda. "Stereoselective Electrohydrocyclization (EHC) Using Zinc and Nickel Electrocatalysts" (poster) 26<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; San Francisco, California; May 2014.
6. L. Littell\*; J.A. Miranda. "Zinc-salophens as catalysts in electrohydrocyclization: Mechanism and stereoselectivity studies" (poster) 44<sup>th</sup> Western Regional Meeting of the American Chemical Society; Santa Clara, CA; October 2013.
7. S. Rocha\*; J.A. Miranda. "Synthesis of Metal-Salens from 1,4-Dimethoxybenzene" (poster) 25<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; Santa Clara, California; May 2013.
8. J. S. Fell\*\*; B. F. Gherman, J. A. Miranda. "Mechanism of Electron Transfer in Metal-Salen Mediated Electroreductive Cyclizations." (poster) 25th California State University Biotechnology Symposium; Anaheim, California; January 2013.
9. A. Domagala\*; Y. Gapchenko\*; J.A. Miranda; B.F. Gherman. "The Use of Metal-salens in Catalytic Electroreductive Cyclization" (poster) 24th California State University Biotechnology Symposium; Santa Clara, California; January 2012.
10. J.A. Miranda; J. Yates\*\*; B.F. Gherman. "Prediction of Reduction Potentials from Calculated Electron Affinities for Metal-Salen Compounds" (oral presentation) 222<sup>nd</sup> Electrochemical Society Meeting; Honolulu, HI; October, 2012.
11. A. Domagala\*; Y. Gapchenko\*; J.A. Miranda; B.F. Gherman. "The Use of Metal-salens in Catalytic Electroreductive Cyclization" (poster) 25<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; Oakland, California; May 2012.
12. K.M. Merritt\*; J.A. Miranda. "Vinylcyclopropane Cyclization-Fragmentation" (poster) 22<sup>nd</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; San Jose, California; May 2011.
13. J. Yates\*\*; J.A. Miranda. "Adventures in organic electrochemistry: Catalytic electroreductive cyclization and prediction of reduction potentials from calculated electron affinities for metal-salen compounds" (oral presentation) 66<sup>th</sup> Northwest Regional Meeting of the American Chemical Society, Portland, OR; June 2011.
14. J. Yates\*\*; J. Miranda "Chiral Nickel(II) Salen Catalysts in Stereoselective Electrohydrocyclization" (poster) 23rd California State University Biotechnology Symposium; Anaheim, California; January 2011.
15. M. McCrea-Hendrick\*\*; C. Stains\*; J.A. Miranda "Asymmetric vanadium-catalyzed epoxidation of allylic alcohols" (poster) 23rd California State University Biotechnology Symposium; Anaheim, California; January 2011.

16. V. A. Mendiola\*, B. F. Gherman, J. A. Miranda. "Metal-Salens as Catalysts for the Reduction of Alkyl Halides: Analysis of Factors Affecting Reaction Pathway and Thermodynamics." (poster) 23rd California State University Biotechnology Symposium; Anaheim, California; January 2011.
17. V. A. Mendiola\*, K. A. Pineda\*, B. F. Gherman, J. A. Miranda. "Prediction of Reduction Potentials from Electron Affinities for Metals-Salens and Application to the Reduction of Alkyl Halides." (poster) 22nd Annual Undergraduate American Chemical Society Research Conference for Northern California; Sacramento, California; May 2010.
18. V. A. Mendiola\*, K. A. Pineda\*, B. F. Gherman, J. A. Miranda. "Prediction of Reduction Potentials from Electron Affinities for Metals-Salens and Application to the Reduction of Alkyl Halides." (poster) 239<sup>th</sup> American Chemical Society National Meeting; San Francisco, California; March 2010.
19. V. A. Mendiola\*, K. A. Pineda\*, B. F. Gherman, J. A. Miranda. "Prediction of Reduction Potentials from Electron Affinities for Metals-Salens and Application to the Reduction of Alkyl Halides." (poster) 22<sup>nd</sup> California State University Biotechnology Symposium; Santa Clara, California; January 2010.
20. J.A. Miranda; E. Martin\*\*. "Epoxidation of olefins using chiral salen vanadium catalysts" (oral presentation) 240<sup>th</sup> American Chemical Society National Meeting; Boston, MA; August 2010.
21. A. Bailey\*; M. McCrea-Hendrick\*\*, J.A. Miranda. "Intramolecular Vinylcyclopropane Radical-Cyclization Fragmentation" (poster) 22<sup>nd</sup> California State University Biotechnology Symposium; Santa Clara, California; January 2010.
22. K. England\*; J.A. Miranda "Electroreductive cyclization of methyl cinnamate in the presence of nickel(II) salen: A mechanistic study" (poster) 240<sup>th</sup> American Chemical Society National Meeting; Boston, MA; August 2010.
23. M. Vu\*; M. McCrea-Hendrick\*\*; J.A. Miranda. "An Improved Synthetic Route to the Amino Acid Statine" (poster) 22<sup>nd</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; Sacramento, California; May 2010.
24. V. A. Mendiola\*, K. England\*, H. Kaur\*, S. B. Bateni\*, A. R. Mitchell\*, A. T. Galatti\*, M. H. Vu\*, B. F. Gherman, J. A. Miranda. "Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental / Computational Approach." (poster) Symposium on Learning and Industry Targeting Computational Chemistry Opportunities (Sylicco.09); University of California, Davis; Davis, California; July 2009.
25. V. A. Mendiola\*, K. England\*, H. Kaur\*, S. B. Bateni\*, A. R. Mitchell\*, A. T. Galatti\*, M. H. Vu\*, B. F. Gherman, J. A. Miranda. "Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental / Computational Approach." (poster) 21st Annual Undergraduate American Chemical Society Research Conference for Northern California; Moraga, California; May 2009.

26. M. Hussain\*; B.F. Gherman; J.A. Miranda “Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental/Computational Approach” (poster) Annual Biomedical Conference for Minority Students (ABRCMS); Phoenix, AZ; November 2009.
27. K. England\*, H. Kaur\*, A. R. Mitchell\*, A. T. Galatti\*, M. H. Vu\*, B. F. Gherman, J. A. Miranda. “Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental/Computational Approach.” (poster) 42nd Western Regional Meeting of the American Chemical Society; Las Vegas, Nevada; September 2008.
28. K. England\*, H. Kaur\*, A. R. Mitchell\*, B. F. Gherman, J. A. Miranda. “Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental/Computational Approach.” (poster) 20<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; Santa Clara, California; May 2008.
29. K. England\*, H. Kaur\*, A. R. Mitchell\*, B. F. Gherman, J. A. Miranda. “Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental/Computational Approach.” (poster) 20<sup>th</sup> California State University Biotechnology Symposium; Oakland, California; January 2008.
30. K. England\*, H. Kaur\*, A. R. Mitchell\*, B. F. Gherman, J. A. Miranda. “Prediction of Reduction Potentials from Electron Affinities for Metal-Salens: A Dual Experimental/Computational Approach.” (poster) 235<sup>th</sup> American Chemical Society National Meeting; New Orleans, LA; April 2008.
31. H. Davison\*; J.A. Miranda. “An Improved Synthetic Route to the Amino Acid Statine” (oral presentation) 20<sup>th</sup> Annual Undergraduate American Chemical Society Research Conference for Northern California; Santa Clara, California; May 2008.
32. H. Davison\*; J.A. Miranda. “An Improved Synthetic Route to the Amino Acid Statine” (poster) 41<sup>st</sup> Western Regional Meeting of the American Chemical Society; San Diego, CA; October, 2007.