

Publication List of Dirk Schweitzer

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Complete List of Published Publications:

- 9.) Dirk Schweitzer, Junyi Zhu, Gotam K. Jarori, John J. Kane, V. Jo Davisson, and Paul Helquist; Synthesis of Carbamate Derivatives of Iejimalides. Retention of Normal Antiproliferative Activity and Localization of Binding in Cancer Cells; *submitted for publication*.
- 8.) Pierre Kennepohl, Frank Neese, Dirk Schweitzer, Henry L. Jackson, Julie A. Kovacs, and Edward I. Solomon; Spectroscopy of Non-Heme Iron Thiolate Complexes: Insight into the Electronic Structure of the Low-Spin Active Site of Nitrile Hydratase; *Journal of the American Chemical Society*, **2004**, *in press*.
- 7.) Jason Shearer, Henry L. Jackson, Dirk Schweitzer, Durrell K. Rittenberg, Tanya M. Leavy, Werner Kaminsky, Robert C. Scarrow, and Julie A. Kovacs; The First Example of a Nitrile Hydratase Model Complex that Reversibly Binds Nitriles; *Journal of the American Chemical Society*, **2002**, 124, 11417-11428.
- 6.) Dirk Schweitzer, Jason Shearer, Durrell K. Rittenberg, Steven C. Shoner, Jeffrey J. Ellison, Reza Loloee, Scott Lovell, David Barnhart, and Julie A. Kovacs; Enhancing Reactivity via Structural Distortion; *Inorganic Chemistry*, **2002**, 41, 3128-3136.
- 5.) D. Schweitzer; Biomimetic Models of the Active Site of the Metalloenzyme Nitrile Hydratase; Ph.D. Thesis; University of Washington at Seattle; June **2001**; ISBN: 0-493-24508-1.
- 4.) Dirk Schweitzer; An Improved Synthesis of Tetramethylammonium Azide; *Croatica Chemica Acta*, **2001**, 74, 415-418.
- 3.) Irene Kung, Dirk Schweitzer, Jason Shearer, Wendy D. Taylor, Henry L. Jackson, Scott Lovell, and Julie A. Kovacs; How Do Oxidized Thiolate Ligands Affect the Electronic and Reactivity Properties of a Nitrile Hydratase Model Compound?; *Journal of the American Chemical Society*, **2000**, 122, 8299-8300.
- 2.) Dirk Schweitzer, Jeffrey J. Ellison, Steven C. Shoner, Scott Lovell, and Julie A. Kovacs; A Synthetic Model for the NO-Inactivated Form of Nitrile Hydratase; *Journal of the American Chemical Society*, **1998**, 120, 10996-10997.
- 1.) D. Schweitzer; Synthesis of Water-Soluble Rubyrin; Diplomarbeit; The University of Texas at Austin and The Friedrich-Schiller-University of Jena, August **1995**.

List of Selected Posters:

- 14.) D. Schweitzer, J. Zhu, G. K. Jarori, J. J. Kane, V. J. Davisson, and P. Helquist; Antiproliferative Activity of Derivatized Iejimalides and Subcellular Localization of Drug Binding Target(s) (Poster 89); Annual Walther Cancer Institute Retreat, Notre Dame, IN, August 5-7, **2004**.
- 13.) D. Schweitzer, J. Kane, J. Zigterman, V. Schröder, M. Suckow, and P. Helquist; Progress Towards a Total Synthesis & a Toxicity Study of an Iejimalide (Poster 65); Annual Walther Cancer Institute Retreat, Notre Dame, IN, August 5-7, **2004**.
- 12.) D. Schweitzer, J. Kane, J. Zigterman, and P. Helquist; Towards a Total Synthesis of the Iejimalides; 2nd Annual Ohio Valley Organic Chemistry Symposium, Dayton, OH, May 14-15, **2004**.
- 11.) D. Schweitzer, J. Kane, J. Zigterman, and P. Helquist; Towards a Total Synthesis of the Iejimalides (Poster 101); Annual Walther Cancer Institute Retreat, Indianapolis, IN, August 7-9, **2003**.
- 10.) D. Schweitzer, J. Kane, J. Zigterman, and P. Helquist; Towards a Total Synthesis of the Iejimalides (Poster B131); 38th National Organic Symposium, Bloomington, IN, June 8-12, **2003**.
- 9.) J. Shearer, H. L. Jackson, D. Schweitzer, T. Leary, W. Kaminsky, R. C. Scarrow, and J. A. Kovacs; Modeling the Reactivity Properties of Cysteinate-Ligated Non-Heme Iron Enzymes (Division of Inorganic Chemistry: P 227); 223rd National Meeting of the American Chemical Society, Orlando, FL, April 7-11, **2002**.
- 8.) J. Shearer, H. L. Jackson, D. Schweitzer, R. C. Scarrow, and J. A. Kovacs; Reactive Models for Iron-Type Nitrile Hydratase: Evidence for a Metal-Nitrile Bond during Catalysis; 10th International Conference on Biological Inorganic Chemistry, Florence, Italy, August 26-31, 2001; *Journal of Inorganic Biochemistry*, **2001**, 86, 428.
- 7.) D. Schweitzer, H. Jackson, D. Rittenberg, and J. A. Kovacs; Influence of Ligand Constraints on the Reactivity of Metal Complexes; Gordon Research Conference, 6th Graduate Research Seminar in Bioinorganic Chemistry, Ventura, CA, January 25-28, **2001**.
- 6.) D. Schweitzer, H. Jackson, D. Rittenberg, and J. A. Kovacs; Influence of Ligand Constraints on the Reactivity of Metal Complexes (626); 2000 International Chemical Congress of Pacific Basin Societies (Pacifichem 2000), Honolulu, HI, December 14-19, **2000**.

- 5.) H. L. Jackson, D. Schweitzer, D. Rittenberg, and J. A. Kovacs; Tuning Reactivity via Ligand Constraints: Towards Functional Models of Fe-type Nitrile Hydratase (Division of Inorganic Chemistry: P 109); 220th National Meeting of the American Chemical Society, Washington, D.C., August 20-24, **2000**.
- 4.) H. Jackson, D. Schweitzer, D. Rittenberg, and J. A. Kovacs; Tuning Reactivity via Ligand Constraints: Towards Functional Models of Fe-type Nitrile Hydratase; Inorganic Biochemistry Summer Workshop, University of Georgia, Athens, GA, July 29-August 9, **2000**.
- 3.) D. Schweitzer, H. Jackson, D. Rittenberg, I. Kung, W. Taylor, J. Shearer, and J. A. Kovacs; Reactive Nitrile Hydratase Models: Increasing Reactivity via Ligand Constraints; Gordon Research Conference, 5th Graduate Research Seminar in Bioinorganic Chemistry, Ventura, CA, January 27-30, **2000**.
- 2.) D. Schweitzer, W. D. Taylor, and J. A. Kovacs; Synthetic Models of the Active Site of Nitrile Hydratase; 9th International Conference on Biological Inorganic Chemistry, Minneapolis, MN, July 11-16, 1999; *Journal of Inorganic Biochemistry*, **1999**, 74, 291.
- 1.) D. Schweitzer, M. S. Weiss, A. Liesum, R. Storm, D. Musil, J. Spieler, R. Marquardt, and R. Hilgenfeld; Crystallographic Studies on Thermolysin (P 43); Jahrestagung der Deutschen Gesellschaft für Biophysik 1996, Leipzig, Germany, September 18-21, **1996**.

List of Selected Presentations:

- 1.) D. Schweitzer; Synthesis and Characterization of Model Compounds for the Metalloenzyme Nitrile Hydratase; Gordon Research Conference, 4th Graduate Research Seminar in Bioinorganic Chemistry, Ventura, CA, January 28-31, 1999.