

CURRICULUM VITAE

Jeremy Beau

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Education & Credentials

PhD, Organic Chemistry – Univ. of South Florida, Tampa, FL – May 2012 (expected)

Major Advisor: Prof. Bill J. Baker

- Developed and screened a collection of 3000 Floridian mangrove endophytes as part of a drug discovery project against cancers and infectious diseases
- Qualified and maintain a BSL-2 laboratory to perform bioassays against MRSA & VRE
- Trained under Lilian Vrijmoed in isolating Mangrove Endophytes at City University of Hong Kong
- Performed extraction and identification of pheromones from *Simulium vittatum*
- Synthesized analogs of meridianin A for SAR study as a psychoactive compound
- Manage 4-6 undergraduate researchers each semester; mentored three Honors Thesis students

B.S., Chemistry – University of Notre Dame, Notre Dame, IN – May 2002

- Undergraduate research – inorganic synthesis under Thomas P. Fehlner 2000-2002
- Undergraduate research – organic synthesis under Olaf G. Wiest 1999-2000

Professional Advancement Courses

- GC/MS Seminar, 1 day – Agilent Technologies, June 2011
- FDA's cGMPs, 1 day – Dephi Analytical Services, May 2006
- Formulating Parenterals, 2 days, Mar 2006
- Emulsion – Suspension Technology, 2 days – Center for Professional Advancement, Dec 2005
- ISO 13485 Internal Quality Systems Auditor, 3 days – BSI Global, Aug 2005

Awards & Honors

- Research Assistantship, Bill & Melinda Gates Foundation, 2011
- Fred L & Helen M Tharp Endowed Scholarship Fund Graduate Award, 2011
- George Bursa Award, 2011
- Michael Holloway Loan Fund, 2008
- Alexander Grossman Scholarship, 1998

Teaching Activities

University of South Florida, Department of Chemistry 2007 - 2010

- Seminar Speaker – Formulation Development 101 – Fall 2011
- Teaching Assistant – Organic Chemistry Discussion – Fall 2008 – Summer 2010
- Organizer/Leader – Responsible Conduct of Research – Fall 2008
- Teaching Assistant – Organic Chemistry Laboratory – Summer 2008, Summer 2009
- Teaching Assistant – General Chemistry Laboratory – Fall 2007, Spring 2008

The Great American Teach In

- Mendenhall Elementary, 1st grade, 2011
- Frontier Elementary, 1st grade, 2010

Professional Experience

Xcelience, LLC. (formerly MDS Pharma) | Formulations & Analytical | Nov 2005 – Jul 2007

- Formulation development of parenteral, solid and encapsulated dosage forms
- Analytical method development, transfer, evaluation & validation
- Instrument Installation, Operational and Performance Qualifications

Smith & Nephew, Inc. | Chemist & Quality Engineer | Apr 2004 – Nov 2005

- Analytical method development, transfer, evaluation & validation
- Compendia chemical & Microbial testing of raw Materials, in-process and finished products
- Out of Trend/Specification investigations & internal quality system audits

Temporary Assignments | Chemist & Microbiologist | Sep 2002 – Apr 2004

- Bausch & Lomb, Inc. – USP Raw Materials Testing
- Southern Analytical Laboratories, Inc. – Microbiology Testing, Inorganic Chemistry
- Hillsborough County Water – Microbiology Testing

Memberships in Honor and Professional Societies

- 2010 – 2011 – Member – The American Society of Tropical Medicine and Hygiene
- 2008 – 2011 – Member – The American Society of Pharmacognosy
- 2009 – 2011 – Member – Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie

Research Interests

Isolation and identification of secondary metabolites from natural products. Drug discovery against cancers, neurodegenerative diseases and infectious diseases such as malaria, leishmaniasis, influenza and onchocerciasis. Emphasis on multi-drug resistant stains of *Staphylococcus aureus* and *Enterococci*. Structure activity relationship studies of natural products.

Undergraduate Honors Thesis Mentorship

- Youngju Pak, current. Structure Activity Relationship Studies of Antimalaria Compound Meridianin A., USF Tampa, FL.
- Jacqueline Salm, 2010. Anti-Malarial Activity Exhibited by Florida Mangrove Endophytes., USF Tampa, FL.
- Anthony Kurian, 2010. Antimalarial Compounds from Antimalarial Plants., USF Tampa, FL.
- Hoangmy Chau, 2010. Antibiotic Compounds from Mangrove Endophytes., USF Tampa, FL.

Publications

- Jeremy Beau, Nida Mahid, Whittney N. Burda, Lacey Harrington, Lindsey N. Shaw, Tina Mutka, Dennis E. Kyle, Betty Barisic, Alberto Van Olphen and Bill J. Baker. Epigenetic Tailoring for the Production of Anti-infective Cytosporones from the Mangrove Endophyte *Leucostoma persoonii*. *Journal of Natural Products*. Submitted 10/2011.

Presentations

- Jeremy Beau, Nida Mahid and Bill J. Baker. Epigenetic Tailoring in the Production of Anti-MRSA compounds from a Mangrove Endophytic Fungus (Oral). ASP Annual Meeting 2011, San Diego, CA.
- Jeremy Beau, Nida Mahid and Bill J. Baker. Epigenetics and the Production of Secondary Metabolites by Fungi (Oral). International Conference on Natural Products 2011, Castres, France.
- Jeremy Beau, TJ McGaha, Raymond Noblet, Bill J. Baker and Thomas Unnasch. Black fly Pheromones and the Eradication of Onchocerciasis (Oral). Raymond N. Castle Student Research Conference 2011, Tampa, FL.
- Jeremy Beau, Tina Mutka, Dennis E. Kyle and Bill J. Baker. Investigations of Anti-Malarial Compounds from Mangrove Endophytes (Poster). BioFlorida Conference 2010, Ft. Lauderdale, FL.
- Jeremy Beau, Matt Lebar, Wai Ma, Raymond Chow, Lilian Vrijmoed and Bill J. Baker. Anti-MRSA Compounds from Mangrove Endophytes (Poster). ASP Annual Meeting 2010, St. Petersburg, FL.
- Jeremy Beau, Tina Mutka, Dennis E. Kyle and Bill J. Baker. A Potential New Antimalarial Compound From a Fungal Mangrove Endophyte (Poster). ASP Annual Meeting 2009, Waikiki, HI.
- Jeremy Beau and Bill J. Baker. Fighting the Growing Threat of Drug-Resistant Infectious Diseases (Poster). ResearchONE Conference 2008, Tampa, FL.
- Jeremy Beau and Bill J. Baker. Drug Discovery From Floridian Mangrove Endophytes (Oral). ACS Meeting in Miniature 2008, St. Petersburg, FL.