

WOOD LABORATORY

Advising

Ph.D. STUDENTS

Current

Steven Cummings, An expression system for modified human hemoglobin

Joseph Taris, Protein Purification with Inteins (DARPA Contract)

Jackelyn Galiardi, Intein methods for exosome and virus particle purification

Brian Marshall, Split intein purification method development

Hongyu Yuan, Intein purification project

Agro. M. Sabat González Serrano, Basic studies on intein biophysics

Sai Vivek Prabhala, Intein development.

Alumni and last known position

Kevin McGarry (through OSBP), “Reengineering Butyrylcholinesterase for the Catalytic Degradation of Organophosphorus Compounds”, Ph.D. granted May 2019.

Present position: cGMP Quality Control Supervisor - Clinical Manufacturing, Nationwide Children's Hospital.

Yamin Fan, “Split Inteins As Versatile Tools in Applications of Downstream Purification and Bioconjugation”, Ph.D. granted May 2019.

Present position: Sr. Engineer I, Biogen.

Samuel Stimple, “Recent Advances in Developing Molecular Biotechnology Tools for Metabolic Engineering and Recombinant Protein Purification”, Ph.D. granted August 2018.

Present position: Scientist, Antibody Research, Sanofi.

Merideth Cooper, “Creating an Efficient Biopharmaceutical Factory: Protein Expression and Purification Using a Self-Cleaving Split Intein”, Ph.D. granted May 2018.

Present position: Advanced R&D Engineer at Owens Corning.

Ashwin Lahiry, “Developing Molecular Tools for Applications in Metabolic Engineering and Protein Purification.” Ph.D. granted August 2017.

Present position: Research Scientist, Merck, Inc.

Tzu-Chiang Han, "Control of Intein-Mediated Self-Cleaving Tag for Recombinant Protein Purification."
Ph.D. granted January 2016.

Present position: Process Scientist, Regeneron Pharmaceuticals, Inc., Rensselaer, New York.

Miriam Shakalli-Tang, "Applied Protein Engineering for Bacterial Biosensor and Protein Purification."
Ph.D. granted November 2015.

Present position: Product Vigilance Manager, Proctor & Gamble Corporation, Panama.

Daniel Knight (co-advised with Prof. Martin Feinberg), "Reactor Behavior and its Relation to Chemical Reaction Network Structure." Ph.D. granted July 2015.

Present position: Assistant Professor, University of California Irvine.

Elif Miskioglu (NSF GFRP), "Learning in Style: Investigation of Factors Impacting Student Success in Chemical Engineering at Individual and Team-Levels with a Focus on Student Learning Styles." Ph.D. granted June 2015.

Present position: Assistant Professor, Bucknell University.

Michael Coolbaugh, "Recent Advances in Self-Cleaving Intein Tag Technology." Ph.D. granted November 2014.

Present position: Senior Scientist, Genzyme Corporation, a Sanofi company.

Jeevan Baretto, "Application of Biosensors in Detection of Novel Therapeutics & Environmental Monitoring." Ph.D. granted May 2014.

Present position: Vaccines Registration Manager; Global Regulatory Affairs, GlaxoSmithKline, Wavre, Belgium.

MASTERS STUDENTS

Current

Nathan Moody, Therapeutic protein production

Alumni

Yujing Zhai, "Evaluation of a Zinc Binding-domain for Control of Intein Cleaving." MS granted November 2016.

Present position: Research Scientist, Genomics Institute of the Novartis Research Foundation, San Diego, CA.

UNDERGRADUATES / VISITORS ADVISED

Current Undergraduates / Lab Members

Anna Asim
Noah Breitenbecher
Christy Caporale
Aniliese Deal
Emily Doleh
Elizabeth Judy
Sathvik Kethireddy
Jasur Khan
Manasa Korrapati
Sophia Krebs
Laura Kryah
Natalya Lavrenchuk
Emery Monnig
Orion Wang
Connor Weyrick

Thesis Students – Alumni – last known position

Angela Chen (NSF GFRP), University of Texas PhD program (started Fall 2015).
Hannah Zierden (NSF GFRP), Johns Hopkins PhD program (started Fall 2015).
Robert Law, Johns Hopkins PhD program (started Fall 2015).
Robert Pittman, Ohio State University Masters Program (started Fall 2013).
Brain Novi, Philadelphia College of Osteopathic Medicine (started Fall 2013).
Robert Wensing, University of Illinois, Urbana Champaign PhD program (started Fall 2011)

Alumni (former Lab Members) - last known position

Brandon Clem
Don Matthew
Elias Linhardt
Jim Bradcovich
Joel Silleck
Joel Francis
Isaac Delev
Yara Mohamad, Currently a Manufacturing Associate at ThermoFisher
Olivia Krebs (NSF GFRP), Case Western Reserve University BME Ph.D. program
Matthew Haynam, Bioprocess Engineer at AveXis, a Novartis Company
Maria DeBastiani, Process Development Associate, Regeneron Pharmaceuticals, Inc.
Maria Znidarsic, Engineer, Biogen Corporation
Jonas Immel-Brown, Research Scientist, Biogen Corporation,
Hopen Yang, University of Delaware Ph.D. program

Jacob Martin, Northwestern University Ph.D. program
Jesse Westfall, Clemson University Ph.D. program
Connor Weigand, University of Pittsburgh Ph.D. program.
Mitch Raith, University of Tennessee at Knoxville Ph.D. program.
Tiana Warren (NSF GFRP), Johns Hopkins PhD program; Scientist II at BD Corp.
Jesse Leissa, University of Maryland M.S. program; R&D Associate II at AstraZeneca.
Steven Youn, Unknown
Jonathan Strutz, Northwestern University PhD program.
Alexis Brannan, B.S., Purdue University; Advanced Product Assurance Engineer at 3M
Lily Glick, Staff Engineer at Kenexis Consulting Corporation; J.D. Candidate, OSU Law School
David Cain, Associate engineer at Genentech, South San Francisco, CA
Alex Miller, Unknown
Akshit Gupta, Analyst at Clinton Health Access Initiative, New Delhi Area, India
Kyle Schneider, Unknown
Jason Porter, Quality Assurance Manager at Starr Hill Brewery, Charlottesville, Virginia
Brian Saunders, Territory Manager II - OH/MI Packaging - at H.B. Fuller
David Benco, Customer Support Engineer, OSIsoft, San Leandro, CA
Derek Reichel, University of Kentucky PhD program (started Fall 2014).
Gina Pietro, Field Engineer at Baker Hughes
Geoffrey Kleimeyer, Dow Chemical, Houston, TX
Theodore Rader, M.D., University of Toledo; Resident Physician at VCU Health

RESEARCH SCIENTISTS, POST DOCS and VISITING COLLABORATORS

Current

Farah Deeba

Hasina Wali

Former

Tarek Mazeed (Egypt), Visiting Scholar, fermentation development 2018-2020

Farah Deeba (Pakistan), Visiting Scholar, enzyme-based pesticides 2018-2019

Richard Lease, Ph.D. Research Scientist 2011-2017.

Project: Independent project in metabolic engineering for biofuels production

Samar Al-Sharawi, Visiting Scholar 2014-2016, thermophilic enzyme isolation

Xia Hai-Feng, Visiting Scholar, Intein Purification methods

Changhua (Steven) Shi, (also co-advised Ph.D.) Post-doc

Project: General intein projects, split intein projects, one patent application.

Present position: Senior Scientist, WuXi Biologics, Shanghai, China.

Junfen Wan, Ph.D., Visiting Scholar 2012-2014.

Project: DARPA project on protein manufacturing.

Present position: Assoc. Prof. & Ph.D., School of Biotechnology, East China University of Science and Technology, Shanghai, China.

Jingjing Li, Post-doc 2008-2009.

Project: "Development of a bacterial screen for potential autism-related compounds."

Present position: Post Doctoral Research Associate, UNC, Chapel Hill, NC.

Iraj Ghazi, Post-doc 2008-2011, Research Scientist 2013-2014.

Project: "Development of viable Carbonic Anhydrase enzyme process for carbon sequestration" (2008-2011), "DARPA BioMOD" (2013-2014).

Present position: Bioprocess Development Specialist II, Shire Pharmaceuticals, Boston, MA.

Izabela Gierach, Post-doc 2007-2009.

Project: "Computational design and bacterial screening of thyroid-active compounds."

Present position: Research Scientist, Navidea, Dublin, OH.