

EDWARD B PRAGE

CONTACT:

Professional

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Personal

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EMPLOYMENT:

Director-in-Training, ClinImmune Labs, Aurora, CO, 2017-present
Affiliate Instructor, Metropolitan State University, Denver, CO, 2022-present
Lead Scientist, Pure Cultures LLC, Denver, CO, 2013-2016
Quality Assurance Technician, Nutraceutix Inc, Lafayette, CO, 2004-2006

EDUCATION:

PhD, Chemistry, Vanderbilt University, 2012
Research, Structural studies of inhibition of the inducible prostaglandin E synthase MPGES1
Advisor, Richard N Armstrong, PhD

BS, Chemistry, University of Missouri-Columbia, 2004

PROFESSIONAL SKILLS:

Genetics: DNA extraction and amplification, typing by sequence-specific primers/electrophoresis, sequence-specific oligonucleotide probe typing, Sanger sequencing, next-generation/high-throughput sequencing, subcloning, site-directed mutagenesis

Serology: flow cytometry, panel reactive antibody analysis, T- and B-cell crossmatch

Microbiology: bacterial strain isolation/identification, growth optimization, stability enhancement

Molecular biology: recombinant membrane protein expression, detection, purification

Enzymatic assays: HPLC, fluorescence, mass spectrometry-SRM, UV spectrophotometry

Protein dynamics: Hydrogen/deuterium exchange mass spectrometry

Mass spectrometry: LC-MS of membrane proteins, peptides, prostaglandins

Scientific software: ChemDraw, FACSDiva, FlowJo, Fusion, HLA Twin, Kaleidagraph, MagTran, MassXpert, Prism/GraphPad, Protein Prospector, PyMOL, QualBrowser, Xcalibur

Supervisory duties: staffing, scheduling, and payroll; process development; preparation and implementation of SOPs; validation and verification of laboratory instrumentation; planning, assigning and directing special projects; interpretation, review, and preparation of clinical reports

Instructional duties: teach chemistry at basic and advanced undergraduate levels; create learning objectives; prepare and deliver content in-person and online; maintain and organize laboratory space; work and interact with diverse groups of individuals

HONORS/AWARDS:

Certified Histocompatibility Technologist, ABHI
Molecular Biophysics Training Grant, NIH
Dawson Fellowship, Vanderbilt University
Graduated *cum laude*, University of Missouri
Member, Phi Beta Kappa, Alpha of Missouri
Member, Golden Key International Honours Fraternity
Collegiate License Plate Fund Award, University of Missouri
Excellence Award, University of Missouri
Dean's List, University of Missouri

PUBLICATIONS:

Prage, E. B. (2012). Structural Studies of Inhibition of the Human Inducible Prostaglandin E Synthase MPGES1. *Vanderbilt University*.

Prage, E. B., Morgenstern, R., Jakobsson, P. J., Stec, D. F., Voehler, M., Armstrong, R. N. (2012) Observation of two modes of inhibition of human microsomal prostaglandin E synthase 1 by the cyclopentenone 15-deoxy-(delta)^{12,14}-prostaglandin J₂. *Biochemistry* 51, 2348-2356.

Prage, E. B., Pawelzik, S. C., Busenlehner, L. S., Kwangho, K., Jakobsson, P. J., Morgenstern, R., Armstrong R. N. (2011) Location of inhibitor binding sites in the human inducible PGE synthase MPGES1. *Biochemistry* 50, 7684-7693.

PUBLIC RESEARCH PRESENTATIONS:

Predicting Successful Desensitization in Allogeneic Hematopoietic Stem Cell Transplantation. ASHI/Banff Joint Scientific Meeting, Pittsburgh, PA, September 23-27, 2019.

Probiotics and the Microbiome: Gut Reactions, Food Biotechnology, Colorado State University, Fort Collins, CO, April 9, 2015.

Advancing the Agriculture Economy Through Innovation, CSU Agricultural Innovation Summit, Fort Collins, CO, March 20, 2015.

Structural Studies of Inhibition of the Inducible Prostaglandin E Synthase MPGES1, Department of Chemistry, Vanderbilt University, Nashville, TN, February 13, 2012.

Enzymology Meeting, Center in Molecular Toxicology, Vanderbilt University, Nashville, TN, October 19, 2011.

Vanderbilt Institute of Chemical Biology Symposium, Vanderbilt University, Nashville, TN, August 11, 2011.

Enzymology Meeting, Center in Molecular Toxicology, Vanderbilt University, Nashville, TN, October 20, 2010.

Molecular Biophysics/Center for Structural Biology Seminar Series, Vanderbilt University, Nashville, TN, August 3, 2010.

Center for Structural Biology Retreat and Open House, Vanderbilt University, Nashville, TN, October 30, 2009.

Vanderbilt Institute of Chemical Biology Symposium, Vanderbilt University, Nashville, TN, August 13, 2009.

Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden, May 27, 2009.

Enzymology Meeting, Center in Molecular Toxicology, Vanderbilt University, Nashville, TN, April 15, 2009.

Chemistry Graduate Seminar Series, Department of Chemistry, Vanderbilt University, Nashville, TN, February 20, 2009.

Enzymology Meeting, Center in Molecular Toxicology, Vanderbilt University, Nashville, TN, January 21, 2009.

Glutathione Transferases 2008, University of Uppsala, Uppsala, Sweden, August 20-24, 2008.

St. Jude/VICB/VICC Retreat 2008, St. Jude Children's Research Hospital/Vanderbilt University, Florence, AL, April 22-23, 2008.

Enzymology Meeting, Center in Molecular Toxicology, Vanderbilt University, Nashville, TN, November 28, 2007.