

ERIC VINCENT PATRIDGE
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EDUCATION

The Pennsylvania State University

PhD: Integrative Biosciences, Chemical Biology 2009
Advisor: James G. Ferry

Skidmore College

Bachelor of Arts: Dual Major 2001
Chemistry and Biology (Concentration in Molecular and Cellular Biology)
Graduated *cum laude* with *Departmental Honors* in Biology

EMPLOYMENT

Postdoctoral Associate 2009-present
(*design and study of anti-cancer drug candidates, glutathione metabolism, clonogenics*)
Yale University School of Medicine: Department of Pharmacology
Advisor: Dr. Alan Sartorelli

Graduate Research Assistant 2001-2009
(*flavoproteins/iron-sulfur proteins, purifications, enzyme assays, cloning/knockouts*)
Penn State University: Department of Biochemistry, Microbiology, and Molecular Biology
Advisor: Dr. James Ferry

Research Assistant (*stabilization of DNA with bioflavonoids*) 2000-2001
Skidmore College: Department of Chemistry
Advisor: Dr. Vasantha Narasimhan

Research Internship (*molecular biology in bioremediation*) 2000
Idaho National Environmental & Engineering Laboratories
Advisor: Dr. Frank Roberto

TEACHING/COMMUNICATION SKILLS AND TRAINING

Participant/Trainee 2009
Team Liberation: Facilitator Skills Training
Corvallis, OR

The Pennsylvania State University 2002-2003
Graduate Assistant, Department of Biology
Biology: Molecules and Cells (1 semester)
Biology: Function and Development of Organisms (1 semester)

PUBLICATIONS

Patridge EV, Ferry JG. Flavin-binding studies: Activity, Co-factor Affinity, and Redox Potential Modulation in NAD(P)H:Quinone Reductase by Alanine-Scanning. (in process)

Patridge EV, Ferry JG. Review: The Evolutionary Relationship of NAD(P)H:Quinone Oxidoreductases. (submitted to *Microbiology and Molecular Biology Reviews*)

Nadeem MZ, Tasca F, Gorton L, **Patridge EV**, Ferry JG, Nöll G. WrbA from *Escherichia coli* and *Archaeoglobus fulgidus* as New Catalyst for NADH-Dependent Amperometric Biosensors and Biofuel Cells. *Analytical Chemistry*. 81 (2009): 4082–4088

Andrade SL, **Patridge EV**, Ferry JG, Einsle O. The Crystal Structure of NAD(P)H:Quinone Oxidoreductase WrbA from *Escherichia coli*. *Journal of Bacteriology*. 189 (2007): 9101-7

Patridge EV, Ferry JG. WrbA from *Escherichia coli* and *Archaeoglobus fulgidus* is an NAD(P)H:Quinone Oxidoreductase. *Journal of Bacteriology*. 188 (2006): 3498-506

RESEARCH AND TECHNOLOGY

Clonogenics and cytotoxicity assays	Design of prodrugs and candidate drugs
Mammalian, bacterial, and archaeal cell cultures	Sterile and anaerobic techniques
Bacterial clones and knockouts	PCR, electrophoresis
Protein and DNA purification	Electrochemical techniques
Active-site design/protein chemistry	Spectroscopic techniques
Enzyme assay development	Electron microscopy (SEM and TEM)
Bioinformatic analyses	HPLC, NMR, GC/LC
Analytical centrifugation	Custom equipment development
Titrations and distillations	Consulting with people outside the field

PROFESSIONAL DEVELOPMENT

Grant Presenter and Awardee	2009
Air Force Program Review: Natural Materials, Systems & Extremophiles <i>Arlington, VA</i>	
Poster Presenter	2004
Extremophiles Conference <i>Annapolis, MD</i>	
Poster Presenter	2003
Gordon Research Conference on Archaea: Ecology, Metabolism, and Molecular Biology <i>Hanover, NH</i>	
Attendee	2000
Joint 55 th ACS Northwest/ 16 th Rocky Mountain Regional Meeting <i>Idaho Falls, ID</i>	

COMPUTER SKILLS

Microsoft Office: Excel, Word, PowerPoint, Access, Outlook

Web Design: Macromedia Studio MX • Drupal

Electronic Formats: Adobe products (Acrobat, Illustrator, Photoshop)

Operating Systems: DOS • Windows 3.1/95/98/NT/2000/XP/Vista/7 • Unix, Linux

General Skills: PC and networking troubleshooting • Hardware and software installation

Languages: HTML • Visual Basic 6.0 • PHP/MySQL • Perl

HONORS AND DISTINCTIONS

Dean's Climate and Diversity Award	Penn State University	2009
Susan R. Rankin Pride Week Award	Penn State University	2007
Outstanding Service Award	Penn State University	2006
Lambda Alumni Outstanding Student Award	Penn State University	2006
Life Science Consortium Fellowship	Penn State University	2001
Dean's list	Skidmore College	2001
Periclean Honors Society	Skidmore College	2001
Princeton AP Honor Award	Lewis Mills High School	1997
National Honors Society	Lewis Mills High School	1997
Eagle Scout		1995

UNIVERSITY SERVICE AND LEADERSHIP EXPERIENCE

National President	2009-present
Out in Science, Technology, Engineering & Mathematics, Inc (<i>oSTEM</i>)	
Participant	2008-2009
Eberly College of Science, Climate and Diversity Committee <i>Pennsylvania State University</i>	
Chair-Elect/ Co-Chair/ Past-Chair	2006-2009
Presidential Commission on LGBT Equity, Office for Educational Equity <i>Pennsylvania State University</i>	
Participant	2006-2007
Framework to Foster Diversity Review Team <i>Pennsylvania State University</i>	
Founder and Chapter President	2006-2007
Out in Science, Technology, Engineering & Mathematics (<i>oSTEM</i>) <i>Pennsylvania State University</i>	
Planner and Participant	2005
Campus Climate Summit <i>Pennsylvania State University</i>	