Jason M. Winget

CONTACT INFORMATION

Centre for High Throughput Biology
University of British Columbia
338 - 2125 East Mall
Vancouver, BC V6T 1Z4 CANADA

Voice: (604) 822-5259
E-mail: jwinget@interchange.ubc.ca

CITIZENSHIP

USA

RESEARCH INTERESTS

Protein Structure, Proteomics, Computational Modeling, Open-source Scientific Tools

EDUCATION

University of Delaware, Newark, DE USA

Ph.D., Biochemistry (Graduated: May 2009)

- Advisors: Clifford R. Robinson and Brian J. Bahnson
- Area of Study: Structure and Function of membrane-associated proteins
- GPA 3.866

Florida State University, Tallahassee, FL USA

B.S., Chemistry (Graduated: May 2002)

- GRE: VERB 600, MATH 730, ANLT 790
- GPA 3.06
- Area of Study: Biochemistry/Biophysics

AWARDS

National Science Foundation

- Integrative Graduate Education and Research Traineeship, 2004

University of Delaware

- Departmental Graduate Fellowship, 2002

Florida State University

- Liberal Studies Honors Program, 1998 - 2000

EXPERIENCE

University of British Columbia, Vancouver, BC CANADA

Postdoctoral Fellow **May 2009 to present**

- Performed research on the ubiquitin & proteasome system in the laboratory of Dr. Thibault Mayor.
- Gained proficiency in Mass Spectrometry-based proteomics. Leveraged existing knowledge of cloning & expression of proteins in mammalian cell lines.

University of Delaware, Newark, DE USA

Graduate Student **September 2002 to May 2009**

- Graduate Fellow/Ph.D. Candidate (September 2002 to December 2006)
  Performed research on generating functional analogs of human Neurokinin 1 Receptor in the laboratories of Dr. Clifford Robinson and Dr. Anne Robinson.
- Ph.D. Candidate (December 2006 to May 2009)
  Performed research on crystallization and characterization of human Group V Phospholipase A_2 in the laboratory of Dr. Brian Bahnson.

Teaching Assistant **September 2002 to May 2003**

- Taught laboratories for introductory chemistry courses (CHEM 101, 103, and 103H).
- Graded weekly lab reports, proctored and graded lecture exams.

Florida State University, Tallahassee, FL USA

Undergraduate Researcher **January 1999 to June 2002**

- Performed biochemistry research in the laboratory of Dr. Timothy M. Logan. Tasks included protein expression and purification, NMR sample preparation, and NMR data analysis. Became proficient in standard laboratory techniques including molecular biology protocols, buffer preparation, affinity chromatography, and gel electrophoresis.

Publications

Wilde I.B., Brack M., Winget J.M., & Mayor T.
Proteomic Characterization of Aggregating Proteins after the Inhibition of the Ubiquitin Proteasome System.
Journal of Proteome Research (2011), Article ASAP, doi:10.1021/pr1008543

Gies E., Wilde I., Winget J.M., Brack M., Rotblat B., Novoa C.A., Balgi A.D., Sorensen P.H., Roberge M., & Mayor T.
Niclosamide Prevents the Formation of Large Ubiquitin-Containing Aggregates Caused by Proteasome Inhibition.
PLoS ONE (2010), 5(12): e14410. doi:10.1371/journal.pone.0014410.

Winget J.M. & Mayor T.
The diversity of ubiquitin recognition: hot spots & varied specificity.
Molecular Cell (2010), Volume 38, Issue 5, Pages 627 - 635.

Winget J.M., Pan Y., and Bahnson B.J.
The interfacial binding surface of phospholipase A2s.
Biochemica et Biophysica Acta - Molecular and Cell Biology of Lipids (2006), Volume 1761, Issue 11, Pages 1260 - 1269.

Conference Publications

"Differential Activation of the Unfolded Protein Response in Saccharomyces cerevisiae During Heterologous Expression of G-Protein-Coupled Receptors" Winget J.M., van Fossen A., Robinson C.R., and Robinson A.S. Experimental Biology, April 1-5 2006, San Francisco CA

"Initial steps towards generating a soluble GPCR ligand-binding analog via modeling and mutagenesis" Winget J.M., Barker A., and Robinson C.R. Biophysical Society Annual Meeting, February 14-18 2004, Baltimore MD

Poster: "Quantitative Analysis of GPCR Homology Models" Winget J.M., Barker A., and Robinson C.R. Cambridge Health Institute Conference "GPCR, From Orphan to Blockbuster", June 9-10 2003, Boston MA

Professional Experience

AstraZeneca, Wilmington, DE USA

Summer Internship **June 2004 to September 2004**

- Computational modeling of G Protein-Coupled Receptors. Wrote scripts in Insight2 modeling software for workflow automation.

Technical Skills

Programming: Python, HTML, CSS. Some experience with PHP, SQL

Scientific Packages: MSQuant, ProteomeDiscoverer, Proteus, VMD, PyMol, CNS, Modeller, Autodock

Applications: Adobe Photoshop, LaTeX, BibTeX, Microsoft Office, and other common productivity packages for Windows and Linux platforms

Operating Systems: Linux, IRIX, Microsoft Windows

Professional Activities

Service

- "Rising Stars of Research" poster competition judge, 2009
- UBC Postdoctoral association Executive Committee, 2010
- Vice President of Communications, UBC Postdoctoral Association, 2011