# **Past and Current Trainees**

(Current trainees in bold)

# High School Students

At Case Western Reserve University

Andrea Christman Summer 2001/02 Westlake High School Class of 2002

• Johns Hopkins University School of Medicine, MD, PhD, (PhD, 2012; MD, 2014)

# **Undergraduate Students**

At Virginia Tech (VT)

Do Young Gwak Fall 2011 & Virginia Tech

Spring 2012

Multicultural Academic Opportunities Program (MAOP) Scholar

2014 Admitted to MD program at University of Vermont, Class of 2018

Tyler Trapani Fall 2012 & Virginia Tech

Spring 2013

• Associate Product Manager at LifeNet Health (2015)

Robert Burnham Spring/Summer 2013 Virginia Tech

Fall 2013 Spring/Fall 2014 Spring 2015

2013 Fralin SURF Fellowship

- 2013 VTCDD Poster Award, 3<sup>rd</sup> place
- 2014 Ann L. and John L. Hess Travel Award
- 2014 Outstanding Senior in Biochemistry in the College of Science
- 2015 Ph.D. student in Molecular Genetics and Microbiology at Duke University
- Publication 1: Zhai L<sup>‡</sup>, Wu L<sup>‡</sup>, Li F, Burnham RS, Pizarro JC, Xu B. A Rapid Method for Refolding Cell Surface Receptors and Ligands. Sci. Rep. 2016, 6: 26482. <sup>‡</sup>equal authorship.
- Publication 2: **Burnham RS**, Zhai L, Zhang L, Xu B. Remote viral mimicry in human herpesviridae proteome: structural conservation but diverging functional sites at the host-pathogen interfaces. *In preparation*. 2018.

Rebekah Watkins Fall 2013 & Virginia Tech

Spring/Fall 2014 Spring 2015

- 2015 ACS Virginia Blue Ridge Section James Lewis Howe Award
- 2015 Ph.D. student with Jenny Ting, University Distinguished Professor at University of North Carolina, Chapel Hill
- Publication: Watkins R<sup>‡</sup>, Wu L<sup>‡</sup>, Zhang C, Davis RM, Xu B. Natural Product-Based Nanomedicine: Recent Advances and Issues. *Int. J. Nanomedicine*. 2015, 10: 6055-6074. <sup>‡</sup>equal authorship.

Katherine Kelly Spring 2016, Fall 2016 Virginia Tech

Research Poster: Marcus M, Henderson F, Kelly K, Lad S, Velander P, Wu L, Bloom GS, Xu B. Tau and α-synuclein Protein Expression, Purification, and Their Amyloid Inhibitor Discovery. ASBMB Annual Meeting in Chicago, IL, April 22, 2017

Madeleine Marcus Fall 2016, Spring 2017 Virginia Tech

• 2017 Ann L. and John L. Hess Travel Award

- Poster Presentation at ASBMB Annual Meeting in Chicago, IL, April 22, 2017
- 2017 Exemplary Undergraduate Research in Biochemistry Award
- 2017 Undergraduate Thesis Defended, "Expression and Purification of Human Tau Variants and Inhibitor Discovery (I)"
- Publication 1: Burnham RS, Zhai L, **Marcus M**, Zhang L, Xu B. Remote Viral Mimics in Human Herpesviridae Proteome: Structural Conservation but Diverging Functional Sites at the Host-pathogen Molecular Interaction Interface. In preparation, 2018

## Frances Henderson

Fall 2016, Spring 2017

Virginia Tech

- 2016 John & Ann Hess Scholarship
- 2017 Ann L. and John L. Hess Travel Award
- Poster Presentation at ASBMB Annual Meeting in Chicago, IL, April 22, 2017
- 2017 Exemplary Undergraduate Research in Biochemistry Award
- 2017 Undergraduate Thesis Defended, "Expression and Purification of Human Tau Variants and Inhibitor Discovery (II)"
- 2017 NIH Postbaccalaureate Intramural Research Training Award (Postbac IRTA Program)
- Publication 1: Velander P, Wu L, **Henderson F**, Zhang S, Bevan DR, Xu B. Natural Product-based Amyloid Inhibitors. *Biochem. Pharmacol.* 2017. 139, 40-55.

### **Darren Dougharty**

Fall 2017, Spring 2018

Virginia Tech Sophomore

• 2017 Virginia Tech Honor College

Xedrix Barbeyto

Fall 2017, Spring 2018

Virginia Tech Freshman

Allison VanInwegan

Spring 2018

Virginia Tech Junior

Christopher Tan

Spring 2018

Virginia Tech Sophomore

- 2017 Virginia Tech Honor College
- 2018 Fralin SURF Fellowship

## **Graduate and Medical Students**

At Fred Hutchinson Cancer Research Center (ad hoc)

Kathryn Finton 2009-2011

University of Washington

- Biomolecular Structure & Design program trainee fellowship
- Ph.D. University of Washington, 2013

Mesfin Gewe

2010-2011

University of Washington

- Molecular & Cell Biology program trainee fellowship
- Ph.D. University of Washington, 2015

### At Virginia Tech

Feng Li

Fall 2011 &

Visiting Graduate Student

Spring/Summer 2012

• Publication 1: Zhai L<sup>‡</sup>, Wu L<sup>‡</sup>, **Li F**, Burnham RS, Pizarro JC, Xu B. A Rapid Method for Refolding Cell Surface Receptors and Ligands. *Sci. Rep.* 2016, 6: 26482. <sup>‡</sup>equal authorship.

James Dittmar

Summer 2012

VT Carilion School of Medicine

Resident Physician at Baylor College of Medicine (2015)

Lu Zhai

2013/12 - 2016/8

Biochemistry M.S. Degree

- 2014 Blanche Wu Memorial Graduate Scholarship
- 2015 Blanche Wu Memorial Graduate Scholarship
- May 2015 Passes preliminary examination
- Publication 1: Zhai L<sup>‡</sup>, Wu L<sup>‡</sup>, Li F, Burnham RS, Pizarro JC, Xu B. A Rapid Method for Refolding Cell Surface Receptors and Ligands. Sci. Rep. 2016, 6: 26482. <sup>‡</sup>equal authorship.
- Publication 2: Burnham RS, **Zhai L**, Zhang L, Xu B. Remote viral mimicry in human herpesviridae proteome: structural conservation but diverging functional sites at the host-pathogen interfaces. *In preparation*. 2018.
- Successfully completed M.S. degree.

### Paul Velander

2014/5 - 2017/12

Biochemistry Ph.D. Degree

- 2014 VTCDD Poster Award, 2<sup>nd</sup> place
- 2015 Bruce M. Anderson Award
- 2015 Graduate Teaching Scholar Fellowship
- 2015 Kamal M. Abdo Memorial Travel Award
- May 2015 Advances to doctoral candidacy
- 2016 the Eheart Graduate Travel Award
- 2017 the Eheart Graduate Travel Award
- 2017 Outstanding Graduate Student in Biochemistry
- 2017 Kendall W. King Memorial Scholarship
- 2017/12/6 Successfully Defended Ph.D. Dissertation.
- Publication 1: Velander P<sup>‡</sup>, Wu L<sup>‡</sup>, Ray WK, Helm RF, Xu B. Amylin Amyloid Inhibition by Flavonoid Baicalein: Key Roles of Its Vicinal Dihydroxyl Groups of the Catechol Moiety. Biochemistry. 2016, 55: 4255-8. <sup>‡</sup>equal authorship.
- Publication 2: Velander P, Wu L, Henderson F, Zhang S, Bevan DR, Xu B. Natural Product-based Amyloid Inhibitors. *Biochem. Pharmacol.* 2017. 139, 40-55.
- Publication 3: Wu L, **Velander P**, Liu D, Xu B. Oleuropein promotes  $\beta$ -cell insulin secretion and protects  $\beta$ -cells from amylin amyloid induced cytotoxicity. *Biochemistry*. 2017. 56, 5035-9.
- Publication 4: Wu L<sup>‡</sup>, Velander P<sup>‡</sup>, Brown A, Saathoff JM, Zhang S, Bevan DR, Xu B. A Synthetic Rosmarinic Acid Analogue Potently Detoxifies Amylin Amyloid. *Under review.* PNAS. 2018. <sup>‡</sup>equal authorship.

Yao Wang 2015/8 - present Human Nutrition Ph.D. student

- Co-advisee major advisor: Prof. Dongmin Liu (HNFE)
- Publication 1: Wang A, Luo J, Moore W, Alkhalidy H, Wu L, Zhang J, Zhen W, Wang Y, Clegg DJ, Xu B, Cheng Z, McMillan RP, Hulver MW, Liu D. GPR30 regulates diet-induced adiposity in female mice and adipogenesis in vitro. Sci. Rep. 2016, 6, 34302.
- Publication 2: Alkhalidy H, Wang Y, Liu D. Dietary Flavonoids in the Prevention of T2D: An Overview. *Nutrients*. 2018, 10, 438.

Shradha Lad 2017/1 - present Biochemistry Grad. Student

- Translational Obesity IGEP Research Traineeship, 2017-2018
- 2017 VTCDD Drug Discovery Day Poster Award, 1<sup>st</sup> place
- 2018 VT Graduate Student Assembly Research Symposium Presentation Silver Award