

## Curriculum Vitae

K. Adam Bohnert

### Education

2003-2007 BS, *summa cum laude*, Biology, Rhodes College, Memphis, TN  
2007-2013 PhD, Cell & Developmental Biology, Vanderbilt University, Nashville, TN  
2013-2017 Postdoctoral training, Dr. Cynthia Kenyon's laboratory, University of California, San Francisco, and Calico Life Sciences, San Francisco Bay Area, CA

### Research Experience

2005-2006 NSF-REU Intern, Dr. Costantino Vetriani's laboratory, Institute of Marine and Coastal Sciences, Rutgers, The State University of New Jersey  
Research topic: Microbial diversity at deep-sea hydrothermal vents  
2005-2007 Undergraduate Student Research Assistant, Dr. Rosanna Cappellato's laboratory, Department of Biology, Rhodes College  
Research topic: Ecosystem services of urban forests  
2007-2013 Graduate Student, Dr. Kathleen Gould's laboratory, Department of Cell and Developmental Biology, Vanderbilt University  
Research topic: Control of cell growth and division in fission yeast  
2013-2017 Postdoctoral Scholar and Jane Coffin Childs Fellow, Dr. Cynthia Kenyon's laboratory, University of California, San Francisco, and Calico Life Sciences  
Research topic: Germline rejuvenation in *C. elegans*

### Honors, Awards, and Research Support

2003-2007 National Merit Scholarship  
2003-2007 Morse Scholarship (full-tuition scholarship), Rhodes College  
2004 Award for Excellence in First-Year Biology, Rhodes College  
2006 Michael E. Hendrick Award for Organic Chemistry, Rhodes College  
2006-2007 Barry M. Goldwater Scholarship  
2007 Outstanding Biology Senior Award, Rhodes College  
2007 Phi Beta Kappa  
2007 B.S. awarded *summa cum laude*, Rhodes College  
2007-2012 University Graduate Fellowship, Vanderbilt University  
2008-2010 Integrated Biological Systems Training in Oncology T32 training grant, National Institutes of Health  
2014 Ruth L. Kirschstein NRSA F32 Fellowship (declined), National Institutes of Health  
2014-2017 Jane Coffin Childs Postdoctoral Fellowship

### Teaching Experience

2004 Statistics Peer Tutor, Rhodes College  
2006 Teaching Assistant, Environmental Sciences laboratory, Rhodes College  
2011 Lecturer, Yeast section of Model Organisms course, Vanderbilt University

Supervision of undergraduate students in Dr. Kathleen Gould's laboratory: Tara Shrout (2009-2010), Matt Samples (2009-2012), Matt Rabon (2010-2013), Nate Braman (2012-2013), Malaya Walker (2012-2013), Saanyol Se-ember Suswam (2013)

Supervision of rotating graduate students in Dr. Kathleen Gould's laboratory: Whitney Gammill (2009), Joseph Cates (2011), Alaina Willet (2011), Jennifer Phelan (2012), MariaSanta Mangione (2013)

## **Publications**

### **Research Papers**

- KA Bohnert, JS Chen, DM Clifford, CW Vander Kooi, and KL Gould. 2009. A link between Aurora kinase and Clp1/Cdc14 regulation uncovered by the identification of a fission yeast Borealin-like protein. *Molecular Biology of the Cell* 20, 3646-3659.
- KA Bohnert and KL Gould. 2012. Cytokinesis-based constraints on polarized cell growth in fission yeast. *PLoS Genetics* 9, e1003004. (article recommended by Faculty of 1000)
- I Perez-Rodriguez, KA Bohnert, M Cuebas, R Keddiss and C Vetriani. 2013. Detection and phylogenetic analysis of the membrane-bound nitrate reductase (NarG) in pure cultures and microbial communities from deep-sea hydrothermal vents. *FEMS Microbiology and Ecology* 86, 256-267.
- KA Bohnert, AP Grzegorzewska, AH Willet, CW Vander Kooi, and KL Gould. 2013. SIN-dependent phosphoinhibition of formin multimerization controls fission yeast cytokinesis. *Genes and Development* 27, 2164-2177. (article recommended by Faculty of 1000)
- AH Willet, NA McDonald, KA Bohnert, MA Baird, JR Allen, MW Davidson, and KL Gould. 2015. The F-BAR Cdc15 promotes contractile ring formation through the direct recruitment of the formin Cdc12. *Journal of Cell Biology* 208, 391-399.
- KA Bohnert and C Kenyon. A lysosomal switch renews germline proteostasis in *C. elegans*. *Nature*, in revision.

### **Reviews**

- KA Bohnert and KL Gould. 2011. On the cutting edge: post-translational modifications in cytokinesis. *Trends in Cell Biology* 21, 283-292.
- KA Bohnert, AH Willet, DR Kovar, and KL Gould. 2013. Formin-based control of the actin cytoskeleton during cytokinesis. *Biochemical Society Transactions* 41, 1750-1754.

### **Presentations**

#### **Talks at National or International Meetings**

- 2009 Yeast Cell Biology Meeting, Cold Spring Harbor Laboratory, NY  
KA Bohnert, JS Chen, DM Clifford, CW Vander Kooi, and KL Gould  
A link between Aurora kinase and Clp1/Cdc14 regulation uncovered by the identification of fission yeast Borealin-like protein
- 2009 5<sup>th</sup> International Fission Yeast Meeting, Tokyo, Japan  
KA Bohnert, JS Chen, DM Clifford, CW Vander Kooi, and KL Gould  
A link between Aurora kinase and Clp1/Cdc14 regulation uncovered by the identification of fission yeast Borealin-like protein
- 2015 20<sup>th</sup> International *C. elegans* Meeting, UCLA, Los Angeles, CA  
KA Bohnert and C Kenyon  
*De novo* lysosome acidification defines a quality control switch in the *C. elegans* germline
- 2017 JCC Memorial Fund Symposium, New Haven, CT  
KA Bohnert and C Kenyon  
Protein quality control in the immortal germline

#### **Talks at Regional or University-sponsored Seminars**

- 2009 Vanderbilt University Yeast Meeting, Nashville, TN  
KA Bohnert and KL Gould  
Re-defining the fission yeast chromosomal passenger complex
- 2011 Vanderbilt University Yeast Meeting, Nashville, TN  
KA Bohnert and KL Gould  
Divide and prosper: new roles for cytokinesis in cell growth and polarity

- 2012 Vanderbilt University Department of Cell and Developmental Biology Retreat,  
Nashville, TN  
KA Bohnert and KL Gould  
Cytokinesis-based constraints on polarized cell growth in fission yeast
- 2015 UCSF Worm Meeting, San Francisco, CA  
KA Bohnert and C Kenyon  
*De novo* lysosome acidification defines a quality control switch in the *C. elegans* germline
- 2017 Bay Area Worm Meeting, San Francisco, CA  
KA Bohnert and C Kenyon  
A lysosomal switch renews germline proteostasis in *C. elegans*

### **Posters**

- 2005 Institute of Marine and Coastal Sciences REU Symposium, New Brunswick, NJ  
KA Bohnert, M Crespo-Medina, and C Vetriani  
The isolation and characterization of chemolithoautotrophic thiosulfate-oxidizers from 9°N, East Pacific Rise
- 2006 Rhodes College Undergraduate Research and Creative Activity Symposium, Memphis, TN  
KA Bohnert and R Cappellato  
Estimation of carbon sequestration by Overton Park, Memphis, TN
- 2006 91<sup>st</sup> Annual Meeting of the Ecological Society of America, Memphis, TN  
KA Bohnert and R Cappellato  
Valuation of ecosystem services of Overton Park, Memphis, Tennessee
- 2007 Rhodes College Undergraduate Research and Creative Activity Symposium, Memphis, TN  
KA Bohnert and R Cappellato  
Soil respiration in forested versus non-forested urban areas in Memphis, TN
- 2009 Southeastern Regional Yeast Meeting, Nashville, TN  
KA Bohnert, JS Chen, DM Clifford, CW Vander Kooi, and KL Gould  
Identification of an *S. pombe* Borealin-like protein through association with Clp1 reveals a role for the CPC in Clp1 accumulation at the contractile ring
- 2010 EMBO meeting, Barcelona, Spain  
KA Bohnert and KL Gould  
A role for the fission yeast SH3-binding protein Fic1 in the establishment of bipolar cell growth
- 2011 Howard Hughes Medical Institute Scientific Meeting, Chevy Chase, MD  
KA Bohnert and KL Gould  
Cytokinesis-based constraints on polarized cell growth in fission yeast
- 2011 American Society for Cell Biology Meeting, Denver, CO  
KA Bohnert and KL Gould  
Control of cell growth and polarity in fission yeast by cytokinesis
- 2012 Gordon Research Conference on Plant and Microbial Cytoskeletons, Andover, NH  
KA Bohnert and KL Gould  
The septation initiation network kinase Sid2 phosphorylates formin Cdc12 to control cytokinetic ring maintenance
- 2013 QB3 Symposium on the Science of Living Healthy Longer, San Francisco, CA  
KA Bohnert and C Kenyon  
Re-setting the 'age clock' during *C. elegans* reproduction