Jennifer E.G. Gallagher Assistant Professor of Biology

West Virginia University
53 Campus Drive, LSB 5108
Morgantown, WV 26506
jegallagher@mail.wvu.edu
304-293-5114

http://jengallagher.faculty.wvu.edu/home

RESEARCH INTERESTS

Understanding molecular mechanisms of genetic variation in stress response by studying protein-protein and protein-nucleic acid interactions using mass spectrometry, high throughput sequencing, genetics, molecular and cell biology, biochemistry and systems biology.

PROFESSIONAL APPOINTMENTS

Assistant Professor. Department of Biology, West Virginia University, Morgantown, WV. December 2012-present.

Postdoctoral Fellow. Department of Genetics, Stanford School of Medicine, Stanford, CA. Postdoctoral advisor: Dr. Michael Snyder. 2009-2012.

Postdoctoral Scholar. Department of Molecular and Cell Biology, University of California, Berkeley, Berkeley, CA. Postdoctoral advisor: Dr. Jasper Rine. 2004-2009.

EDUCATION & PROFESSIONAL TRAINING

Ph.D. in Genetics Yale University, New Haven, CT. Advisor: Susan Baserga. Dissertation title: Assembly and Function of the SSU Processome in Ribosome Biogenesis. May 2004

B.A. in Molecular Biology and Biochemistry Rutgers University, New Brunswick, NJ Advisor: Lenore Neigeborn. Dissertation title: Search for Synthetically Lethal Mutations with *mck1∆*. May 1998.

Write Winning Grants, Grant Writers' Seminar and Workshops, LLC. Morgantown WV 2014.

RESEARCH GRANTS, HONORS, and AWARDS

01/15/2019-01/14/2020 Teasing apart stress responsive translation in yeast. WVU Research Corporation PSCoR. \$23,305.

01/01/2018-12/31/2018 FASE: Acquisition of an ICP to Support Environmental Research from Genes to Ecosystems. USDA 2018-67014-27469 (Co-PI with Jonathan Cumming) \$74,974

09/30/2016-09/29/2019 A Systems Approach to Understanding Effects of MCHM on Cellular Metabolism. NIH-NIEHS R15ES026811-01 \$447,970

08/15/2016-07/31/2018 Genetic Variation in Transcriptional, Proteomic and Metabolic Responses of *S. cerevisiae* to Herbicide. NSF MCB-1614573. \$257,856 (No Cost Extension until 05/2019)

07/01/2015-06/30/2016 Adaptation to Anthropogenic Selection of Wild *S. cerevisiae* Populations. WVU Research Corporation PSCoR. \$24,620.

08/01/2104-07/31/2015 Genetic variation of yeast in response to Roundup. WVU Senate Research Grant program. R-14-003. \$16,342.28

2012, 2008	Summer Research Conference/FASEB MARC Travel Award
2011	FEMS Young Scientist Travel Award

2011 Carl Storm Underrespresented Minority Fellowship

2005-2008	NSF Postdoctoral Fellowship
2000-2004	NSRA NIH Minority Predoctoral Fellowship
2000	Ford Foundation Predoctoral Fellowship (declined)
1998	Graduated magna cum laude, Rutgers University
1998-1999	Honorable Mention: Ford Foundation Predoctoral Fellowship
1998-1999	Honorable Mention: National Science Foundation Pre-Doctoral Fellowship
1997	Avon Fellow, Cornell University Medical College
1997	Paul Robeson Cultural Center Certificate of Achievement, Rutgers College
1997-1998	Henry Rutgers Scholar, Rutgers University

PUBLICATIONS:

Citation indices	All	Since 2014	(retrieved from Google Scholar Jan 26, 2019)
Citation	1589	561	
h-index	13	10	
i10-index	13	10	

20 Peer-reviewed (‡graduate, *undergraduate, †high school student at the time work was conducted)

http://www.ncbi.nlm.nih.gov/sites/myncbi/1B LlfnnRyEk9/bibliography/47523026/public/?sort=date &direction=ascending

Jennifer E.G. Gallagher. Proteins and RNA sequences required for the transition of the t-Utp complex into the SSU processome. 2019 *FEMS Yeast Research*. Jan 1:19(1) https://academic.oup.com/femsyr/article/19/1/foy120/5184469

Xiaoqing Rong-Mullins, Michael C. Ayers[‡], Mahmoud Summers[‡], and **Jennifer E.G. Gallagher**. Transcriptional profiling of *S. cerevisiae* reveals the impact of variation of a single transcription factor on differential gene expression in 4NQO, fermentable, and non-fermentable carbon sources. 2018 *G3: Genes, Genomes, Genetics* Feb 1: 892, 607-619. https://doi.org/10.1534/g3.117.300138

Xiaoqing Rong-Mullins, Apoorva Ravishankar[‡], Kirsten A. McNeal*, Zachery R. Lonergan*, J. Philip Creamer*, Audrey C. Biega*, and **Jennifer E.G. Gallagher**. Genetic variation in Dip5, an amino acid permease, and Pdr5, a multiple drug transporter, regulates glyphosate resistance in *S. cerevisiae*. 2017 *PLoS One* Nov 20;12(11):e0187522. doi: 10.1371/journal.pone.0187522

Xiaoqing Rong-Mullins, Matthew M. Winans[‡], Justin B. Lee*, Zachary R. Lonergan*, Lyndsey M. Weatherly*, Vincent A. Pilolli*, Thomas W. Carmenzind[‡], Lihua Jiang, Jonathan R. Cumming, Gloria Oporto, **Jennifer E. G. Gallagher**. 2017 Proteomic and genetic analysis of *S. cerevisiae* response to soluble copper leads to improvement of antimicrobial function of cellulosic copper nanoparticles. 2017 *Metallomics* 9 (9) 1304-1315. doi: 10.1039/C7MT00147A

Jennifer Weidhaas, Andrea M. Dietrich, Nathan J. DeYonker, R Ryan Dupont, William T. Foreman, Daniel Gallagher, **Jennifer E.G. Gallagher**, Andrew Whelton, William Alexander. Enabling science support during incident response for better decision making. 2016 *Journal of Environmental Quality* 45 (5) 1490-1500 doi: 10.2134/jeq2016.03.0090

Giltae Song, Benjamin J. A. Dickins, Janos Demeter, Stacia Engel, **Jennifer Gallagher**, Kisurb Choe, Barbara Dunn, Michael Snyder, and J. Michael Cherry. 2015 AGAPE (Automated Genome Analysis PipelinE) for pan-genome analysis of *Saccharomyces cerevisiae*. *PLoS ONE* 10(5): e0129184. doi: 10.1371/journal.pone.0129184

Jennifer E.G. Gallagher, Wei Zheng, Xiaoqing Rong, Noraliz Miranda*, Zhixiang Lin, Barbara Dunn, Hongyu Zhao and Michael Snyder. Natural genetic variations in populations indicates regulation of phenotypes and transcriptional responses by master variators. 2014 *Genes & Development* Feb 15, 2014 28:409-421.

- Rui Chen, Silvia Giliani, Gaetana Lanzi, George I. Mias, Silvia Lonardi, Kerry Dobbs, John Manis, Hogune Im, **Jennifer E. Gallagher**, Douglas H. Phanstiel, Ghia Euskirchen, Philippe Lacroute, Keith Bettinger, Daniele Moratto, Katja Weinacht, Davide Montin, Eleonora Gallo, Giovanna Mangili, Fulvio Porta, Lucia D. Notarangelo, Stefania Pedretti, Waleed Al-Herz, Wasmi Alfahdli, Anne Marie Comeau, Russell S. Traister, Sung-Yun Pai, Graziella Carella, Fabio Facchetti, Kari C Nadeau, Michael Snyder, Luigi D. Notarangelo. Whole-exome sequencing identifies tetratricopeptide repeat domain 7A (*TTC7A*) mutations for combined immunodeficiency with intestinal atresias. 2013 *The Journal of Allergy and Clinical Immunology* Sept (132)3: 656-664.
- Laura M Dutca, **Jennifer E.G. Gallagher**, and Susan Baserga. The initial U3 snoRNA:pre-rRNA base pairing interaction required for pre-18 rRNA folding revealed by *in vivo* chemical probing. 2011 *Nucleic Acid Research*.29:12: 5164-5180.
- Mark A. Breidenbach, **Jennifer E.G. Gallagher**, David S. King, Brian P. Smart, Peng Wu, and Carolyn R. Bertozzi. Targeted metabolic labeling of yeast N-glycans with unnatural sugars. 2010 *PNAS* Mar 2;107(9):3988-93.
- Michael P. Snyder and **Jennifer E.G. Gallagher**. Systems biology from a yeast omics perspective. 2009 *FEBS letters*. Dec 1;5839240:3895-9.
- **Jennifer E.G. Gallagher**, Joshua E. Babiarz, Leonid Teytelman, and Kenneth H. Wolfe and Jasper Rine. Elaboration, diversification and regulation of the Sir1 family of silencing proteins in *Saccharomyces*. 2009. *Genetics* Apr 181.
- Kara A. Bernstein, **Jennifer E.G. Gallagher**, Brianna M. Mitchell, Sander Granneman and Susan J. Baserga 2004. The SSU processome is a ribosome assembly intermediate. *Eukaryotic Cell* Dec 1; 3 (6): 1619-1626.
- **Jennifer E.G. Gallagher**, David A. Dunbar, Brianna M. Mitchell, Sander Granneman, Yvonne Osheim, Ann Beyer and Susan J. Baserga 2004. RNA Polymerase I transcription and pre-rRNA processing are linked by SSU processome components. *Genes and Development* Oct 15; 18 (20): 2506-17.
- **Jennifer E.G. Gallagher** and Susan J. Baserga 2004. Two-hybrid Mpp10p interaction-defective Imp4 proteins are not interaction defective *in vivo* but do confer specific pre-rRNA processing defects in *S. cerevisiae*. *Nucleic Acids Research* Feb 27;32(4):1404-13.
- Sander Granneman, **Jennifer E.G. Gallagher**, Wendy Horstman, Judith Vogelzang, Walther J. van Venrooij, Susan J. Baserga, and Ger J.M. Puijn 2003. The human Imp3 and Imp4 proteins form a ternary complex with hMpp10, which only interacts with the U3 snoRNA in 60-80S ribonucleoprotein complexes. *Nucleic Acids Research* Apr 1;31(7):1877-87.
- Arturas Meskauskas, Jennifer L. Baxter, Edward A. Carr, Jason Yasenchak, **Jennifer E.G. Gallagher**, Susan J. Baserga and Jonathan D. Dinman 2003. Delayed rRNA processing results in significant ribosome biogenesis and functional defects. *Molecular and Cellular Biology* 2003 Mar 1;23(5):1602-1613.
- Karen A. Wehner, **Jennifer E.G. Gallagher** and Susan J. Baserga 2002. Components of an interdependent unit within the SSU Processome regulate and mediate its activity. *Molecular and Cellular Biology* Oct; 22 (20):7258-7267.
- François Dragon, **Jennifer E.G. Gallagher**, Patricia A. Compagnone-Post, Brianna M. Mitchell, Kara A. Porwancher, Karen A. Wehner, Steven Wormsley, Robert E. Settlage, Jeffrey Shabanowitz, Yvonne Osheim, Ann L. Beyer, Donald F. Hunt, and Susan J. Baserga 2002. large nucleolar U3 ribonucleoprotein complex required for 18S biogenesis. *Nature* Jul;417(6892):967-70.

Manuscripts in preparation

- Michael C. Ayers, Mark Perfetto, Xiaoqing Rong-Mullins, Scotia Kirkham*, Casey Nassif*, Shuo Wei and **Jennifer E.G. Gallagher**. MCHM exposure affects multiple cellular pathways in diverse organisms. In process of resubmission.
- Amaury Pupo, Michael C. Ayers, Rachel J. Vance, Noor Malik*, and **Jennifer E.G. Gallagher**. Transcriptional impact of genetic variation in Med15 on response to stress. In preparation.
- **Jennifer E.G. Gallagher,** Amaury Pupo, Michael C. Ayers, Rachel J. Vance, and Jonathan R. Cumming. Balance of metals in respiration deficient yeast alters response to MCHM. In preparation.

Non-peered reviewed publications

Philippe Lefrançois, **Jennifer E.G. Gallagher** and Michael Snyder. Global analysis of transcription factor-binding in Yeast Using ChIP-seq. 2014 *Yeast Genetics Methods in Molecular Biology*. Aug 1205:231-255.

PRESENTATIONS:

ĺ	Invited	Sam	inarc	
ı	nviiea	Sem	mars	ū

- 2018 Marshall and Fung Lab, Department of Biochemistry and Biophysics, UCSF
- 2017 Department of Microbiology, Immunology, and Cell Biology, West Virginia University Snyder Lab, Department of Genetics, Stanford University School of Medicine
- 2016 The Health Policy Research Consortium's Fall Policy Forum at West Virginia University
- 2015 CELL BIOLOGY TRAINING PROGRAM WORKSHOP SERIES, West Virginia University West Virginia University, Department of Biochemistry
- 2014 University of Pittsburgh, Pittsburgh Yeast Area Meeting

Wolfe Lab, University College Dublin, Dublin Ireland

West Virginia University, Department of Genetics and Development, Division of Plant and Soil Sciences

Carnegie Mellon University / Pitt Combined Program in Computational Biology Seminar

- 2013 University of Pittsburgh, Pittsburgh Yeast Area Meeting
- 2012 Loyola University of Chicago, Department of Biology

Northwestern University, Department of Molecular Biosciences

University of Chicago, Institute for Genomics and Systems Biology and Department of Molecular Genetics and Cell Biology

Dartmouth Medical School, Department of Genetics

University of Rochester, Department of Biology

University of North Carolina Charlotte, Department of Biology

Virginia Commonwealth University, Department of Biology

Pennsylvania State University College of Medicine, Department of Biochemistry

Wright State University, Department of Biological Sciences

University of Cincinnati, Department of Biological Sciences

West Virginia University, Department of Biology

- 2011 Wake Forest University, Department of Biology
- Rutgers University, Camden, Department of Biology
 West Virginia University, Department of Biochemistry
 Morehouse College, Division of Science and Mathematics

Conference talks (*student presenter):

2018 American Society of Brewing Chemists, Brewing Summit

*Brewing yeast from the Far East, Saccharomyces arboricola and the hybrids

2017 Southeastern Regional IDeA conference CRISPR in yeast

2015 Allegheny-Erie Society of Toxicology

The determination of antioxidant and genetic resistivity to cellulosic copper nanoparticles in *Saccharomyces cerevisiae*

2014 Yeast Genetics and Molecular Biology Meeting

Proteomic approach to predicting regulators of yeast responses to 4MCHM

2011 Gordon Research Conference on Cellular Systems Biology

Variation of genomes and proteomes of Saccharomyces cerevisiae

2010 Yeast Genetics and Molecular Biology Meeting

Mapping variation using high-throughput genomics and proteomics

2004 The Ninth Annual Meeting of the RNA Society

RNA polymerase I transcription and pre-rRNA processing are linked by SSU processome components

2003 The Eighth Annual Meeting of the RNA Society

Ribosomal chromatin-associated Utp proteins couple rRNA synthesis and SSU processome assembly

6th International Conference on Ribosome Synthesis

Ribosomal chromatin-associated Utp proteins couple rRNA synthesis and SSU processome assembly

2002 Dynamic Organization of Nuclear Function at Cold Spring Harbor

The SSU processome, a large nucleolar RNP required for 18S rRNA biogenesis, is also a ribosome assembly intermediate

The Seventh Annual Meeting of the RNA Society

The SSU processome is a large nucleolar ribonucleoprotein required for 18S rRNA biogenesis

Posters (*student presenter):

2018 EMBO: From chromatin to RNA and back again conference:

Changes in phenotypic and transcriptomic response from expression of polymorphic Med15

Metabolomics Society, Annual Conference

*Make copper great again: Toxicity and metabolism of copper nanoparticles

Genetics Society of America: Yeast Genetics Meeting

*Make copper great again: Exploring the unique mode of toxicity by hybrid carboxymethyl cellulose copper nanoparticles

*Elucidating the effects of MCHM on yeast metabolism

*MCHM exposure affects multiple cellular pathways in yeast and metazoans

*Resistance to glyphosate-based herbicides in *S. cerevisiae* does not pertain only to the shikimate pathway

*Investigation of helicases, exonucleases, and TERRA non-coding RNAs in telomere maintenance

*4-MCHM mutates S. cerevisiae BY4741 strains affecting cellular pathways and DNA replication

*The Yeast Atlas, diversity of wild yeast collected from North and South America regions

* Integrative analysis of variation in gene expression regulation networks among diverse strains of *S. cerevisiae*

* Glyphosate resistance via TOR regulation in yeast generated through in-lab-evolutions

2017 Genetics Society of America: Fungal Genetics Conference

Yeasts isolations from mountains in North & South America

*Genetic variation in Dip5, an amino acid permease, and Pdr5, a multiple drug transporter, regulates glyphosate resistance in *S. cerevisiae*

WVU Summer Undergraduate Research Experience Symposium

*Genetic analysis of yeast in response to 4-methylcyclohexane methanol from Elk River chemical spill

*Arrestins and yeast response to cellulosic copper nanoparticles

American Society of Brewing Chemists, Annual Conference

*Atlas of yeast diversity in North and South America, the quest for hidden yeast

Japan Society for the Promotion of Science, Summer Program

*Exploring newly discovered yeast's potential use in biotechnology

2016 EMBO From Chromatin to RNA and Back Again Conference

Regulation of *S. cerevisiae* in response to 4NQO by the polymorphic transcription factor, Yrr1

Genetics Society of America: The Allied Genetics Conference

*Regulation of pericentromeric non-coding RNA on chromosome stability

* Genomic approaches in *Saccharomyces cerevisiae* reveal that response to the toxic spill chemical 4-methylcyclohexanemethanol is mediated by genes involved in pleiotropic drug response, in reactive oxygen species protection, and in UAS INO inositol biosynthetic regulation

Experimental Approaches to Evolution and Ecology Using Yeast and Other Model Systems Pervasive glyphosate resistance in *S. cerevisiae* lies outside the shikimate pathway

American Society of Brewing Chemists, World Brewing Congress

*Harnessing flavor diversity in yeast strains from the Allegheny Mountains

WVU Summer Undergraduate Research Experience Symposium

*Polymorphisms in Dip5 contribute to glyphosate resistance in Saccharomyces cerevisiae

*Toxicity of copper sulfate and cellulosic copper nanoparticles for use in hybrid metal antifungal treatments

2015 Water Workshop

Physiological effects of MCHM on conserved biochemical pathways

Rustbelt RNA Conference on Chromatin

*Regulation of pericentromeric non-coding RNA on chromosome stability

WVU Summer Undergraduate Research Experience Symposium

*Dependence of *CUP1* for copper tolerance

2014 Genetics Society of America: Yeast Genetics & Molecular Biology Meeting

*Global gene expression changes regulated by transcription factor Yrr1p in response to 4-nitroquinoline 1-oxide and to glycerol as sole carbon source

*Chromatin regulation of pericentric non-coding RNA in *S. cerevisiae* affects chromosome stability

WVU Summer Undergraduate Research Experience Symposium

*Isolation, identification, and characterization of wild West Virginia yeast

2013 WVU Summer Undergraduate Research Experience Symposium

*Genetic variation and copper resistance in Saccharomyces cerevisiae

2012 Gene Transcription in Yeast and Yeast Genetics & Molecular Biology Meeting Variation in a master variator generations distinct phenotypes and transcriptional responses

- 2011 SACNAS National Conference

 Variation of genomes and proteomes of Saccharomyces cerevisiae
- 2008 ABCAM Maintenance of Genome Stability and Yeast Genetics & Molecular Biology Meeting Elaboration, diversification and regulation of centromeres in *Saccharomyces*
- 2006 Yeast genetics and Molecular Biology Meeting and FASEB Chromatin & Transcription Exploring establishment of Sir1-dependent silencing using comparative genomics
- 2005 ABCAM Chromatin Structure & Function
 Exploring establishment of Sir1-dependent silencing using comparative genomics
- 2001 The Sixth Annual Meeting of the RNA Society
 Novel Regulation of the function of the U3 snoRNP by its components
 XXth International Conference on Yeast Genetics and Molecular Biology
 Molecular dissection of protein-protein interaction in the U3 snoRNP
- 2000 International Conference of Ribosome Biogenesis and Nucleolar Function Species-specific modulation of the function of the Imp3p RNA binding domain Functional domains of the U3 snoRNP-specific protein, Imp4p, revealed by a unique two-hybrid approach
- 1998 Genetics Society of America: Yeast Genetics and Molecular Biology Meeting Synthetic lethal screen with *mck1*∆

POPULAR PRESS COVERAGE

- Diana Mazzella **My Cousin Yeast** WVU Magazine https://wvumag.wvu.edu/departments/e-h2o/my-cousin-yeast
- Science Sort Of **Montani Semper Docere** https://sciencesortof.com/show-notes/2017/10/episode-270- October 2017
- Kara Leigh **Lofton Researcher Studies Yeast to Understand Reactions to Stress** WVNPR Nov 2, 2016 http://wvpublic.org/post/researcher-studies-yeast-understand-reactions-stress?mc_cid=9ea96add7d&mc_eid=19e6a780ab
- Bryanna McCollough Yeast holds the key to humans' genetic response to stress, herbicide exposure Eberly College ENews http://eberly.wvu.edu/news-events/eberly-news/2016/10/28/yeast-holds-the-key-to-

humans-genetic-response-to-stress-herbicide-exposure

- Aldona Bird **Yeast is the main ingredient for local breweries**, *The Dominion Post*, November 16, 2014 Story covered outreach with local brewers with locally collected *S. cerevisiae*
- Pat LaMarche **Fear and Loathing in West Virginia,** *Huffington Post*, posted February 4, 2014 Story covered crude 4MCHM spill into Elk River, Charleston, WV and work in the lab to understand how 4MCHM affect cellular growth.
- Interviewed on Rick Smith Show March 25, 2014 http://ricksmithshow.com/march-25%2C-2014-show

TEACHING EXPERIENCE:

West Virginia University

- Biology 311: Advanced Cellular and Molecular Biology (Spring 2019) This is an inquiry-based undergraduate laboratory. Students picked a gene candidate from yeast that had evolved resistance (from Biology 320 class). Students will measure gene expression, genetically modify and measure protein levels in yeast of their gene candidate. They summarize their results in a research article at the end of the semester. The results are incorporated into ongoing research in the lab for publication.
- Biology 320: *Total Science Experience: Genomics Capstone* (Spring 2018) This is an inquiry-based undergraduate laboratory. Students picked a chemical and selected yeast that had

evolved resistance. They conduct literature searches and predict genes that are important for potential responses. Students test these hypotheses by sequencing the genome of the evolved yeast and test growth of yeast knockouts. They summarize their results in a research article and a research symposium at the end of the semester. The results are incorporated into ongoing research in the lab for publication.

WVU Upward Bound (Summer 2017) As part of the NSF TRiO program high school students participate in active research. Students isolate wild yeast and identify the species by sequencing.

I ASK WHY: Information Acquired by Students Who Know West Virginia Has Yeast (Fall 2016, 2018) Citizen science outreach to isolate and identify wild yeast.

Biology 658: *Systems Biology* (Fall 2015, Spring 2016, Fall 2017, Fall 2019)

Graduate course covering high throughput technologies and impact of omics on research.

Biology 418: *Medical Genetics* (Spring 2014, Spring 2015, Fall 2016, Spring 2017, Fall 2018) Undergraduate human disease case-based genetics course.

Biology 415: *Epigenetics* (Spring 2014) Graduate and undergraduate course.

Stanford University

Instructor, SPLASH (weekend course for visiting high school students). 2009
Good Science, Bad Science: Learning genetics from movies to the news.

Yale University

Teaching Assistant 2000-2001

Scientific Integrity in Biomedical Research

Current Topics in Molecular and Cellular Biology

Volunteer, Science Education Outreach Program 1998-2004

Taught current scientific methods to seventh graders and judging middle school science fairs. Program Coordinator, 2001.

Rutgers University

Volunteer, Douglass Project: Project Outreach

1997-1998

Weekly lab activities with fifth grade children of the inner-city school to increase the children's interest and knowledge in science.

DIRECT MENTEES at West Virginia University

Bit 1201 MENT 220 at 1100t Virginia Onivoloty			
Postdoctoral:		Current position:	
Amaury Pupo Meriño, Ph.D.	(10/17- present)		
Xiaoqing Rong-Mullins, Ph.D.	(8/13-12/15)	Data Scientist DXC Technology	
Graduate:			

Scott Arbett Ph.D. student (1/19-present)
Suk Lan Ser masters student (8/18-present)
Taizina Momtareen, Ph.D. student (8/17-present)
Matthew Winans Ph.D. student (10/15-present)

NSF-IGERT (Interdisciplinary Graduate Education Research Traineeship)

Michael Ayers Ph.D. candidate (8/14-present)
Morrissey-Ropp Eberly College Scholarship 2014

WVU Mountains of Excellence Fellowship 2016-2018

Apoorva Ravishankar Ph.D. candidate (8/14-present)

Outstanding Biology TA Award 2018

Morrissey-Ropp Eberly College Scholarship 2014

Undergraduate: Steven Carlson Zachary Sherman Jordan Barney Justin Blaize Jasleen Ghandi Noor Malik Katie Perroz Audrey Biega Alejandra Guardado Justin Lee Matthew Pyster Catherine Blackwood Vincent Polilli Jordan Brewer Scotia Kirkham Emily Morgan John Creamer Lindsey Weatherly Casey Nassif Julia Gallo Jenay Grant Kristen McNeal Amna Khan Cassandra Worley Zachary Lonergan	(5/16-8/16) (8/15-12/15) (1/15-12/15) (8/14-5/15) (1/14-5/15) (1/14-5/14) (4/14- 9/14) (1/14-12/14) (5/14-7/14) (8/13-12/13) (5/13- 7/14) (5/13-7/13)	Capacity BIOL386 internship BIOL386 internship BIOL386 SURE NSF NanoSafe SURE/BIOL286 internship BIOL486 BIOL386 SURE/BIOL486 NSF NanoSafe BIOL486 incomplete BIOL386 internship BIOL486 BIOL486 BIOL486 BIOL486 BIOL486 SURE	Current position undergraduate student undergraduate student undergraduate student searching for STEM job undergraduate undergraduate undergraduate undergraduate unknown undergraduate medical student health care industry Ph.D. student searching for STEM job PA student nursing student research administration Ph.D. student medical student STEM industry medical student streschool student STEM industry medical student streschool student streschool student streschool student streschool student streschool student
Zachary Lonergan	(5/13-7/13)	NSF REU	Ph.D. student
High School: Mahmoud Summers	(8/16-9/2018)	BIOL297/386	undergraduate student
Mailingaa Gailling	(0, 10 0, 20 10)	D. G L L G . 7 G G G	anaongradado olddoni

SERVICE

Thesis Committees: West Virginia University	Projected Graduation
Dhanushya Ramachandran for Dr. Jennifer Hawkins	Spring 2018 Ph.D.
Mark Perfetto for Dr. Shuo Wei	Summar 2019 Ph.D.
Jasmine Freeman for Dr. Jennifer Hawkins	Fall 2020 Ph.D.
Mayara Matos for Dr. Glen Jackson	Spring 2019 Ph.D.
Cassandra Creisfield for Dr. Lisa Holland (Chemistry)	Ph.D.
Miguel Medina Munoz for Dr. Rita Rio	Ph.D.
Kushani Attankayake for Stephen Valetine (Chemistry)	Ph.D.

<u>Journal Review</u>: Molecular and Cellular Proteomics, PLoS Genetics, G3, GENE, FEMS Yeast Research.

Organizer: WVU Genomics Group Meeting (2014-present) and Berkeley Yeast Supergroup (2006-2007).

Community outreach: Guest lectures at Morgantown Science on Tap, Morgantown Skeptics in the Pub, Osher Lifelong Learning Institute, and Morgantown Area Society of Homebrewers, *I ASK WHY* (*I*nformation Acquired by Students who know West Virginia Has Yeast), Yeast Hunters under TRiO Upward Bound and organized STEM career day (Summer 2017).

<u>Scientific societies</u>: Genetics Society of America (since 1998) and West Virginia Clinical & Translational Science Institute (since 2015).