## **Curriculum Vitae**

## Tess Shideler, PhD

Assistant Professor of Biology Colorado Mesa University 221J Wubben Hall & Science Center tshideler@coloradomesa.edu

## **Education**

- 2013 Ph.D., University of Colorado, Boulder, CO Molecular Cellular and Developmental Biology
  - Thesis: The guanine nucleotide exchange factors Vps9 and Mon1-Ccz1 coordinate endosome maturation in Saccharomyces cerevisiae.
- 2003 B.S. Florida State University, Tallahassee, FL Biological Sciences

### **Teaching Experience**

#### 2018 - 2024 Full-Time Professor, Biology Department, Los Medanos College, Pittsburg, CA • Awarded Tenure in 2022

- Teach combined lecture and lab courses in Introductory Cell and Molecular Biology and Microbiology for allied health
- Develop and implement inclusive, student-centered curriculum that promotes success of all students
- Develop and maintain laboratory curriculum for multiple sections of biology courses

### 2017 - 2018 Part Time Faculty, Central New Mexico Community College, Albuquerque, NM

- Taught Introductory Biology Lab, Microbiology and Anatomy and Physiology Lab.
- Developed and implemented pedagogical methods designed to enhance student learning and emphasize real world application.
- 2016 2017 Teaching Partnership with Central New Mexico Community College, Albuquerque, NM
  - Developed and implemented numerous collaborative learning exercises
  - Planned and implemented Introductory Biology curriculum based on backward design
- 2007 2008 Graduate Teaching Assistant, University of Colorado, Boulder, CO Molecular Cellular and Developmental Biology Department. • Immunology; Introductory Genetics Lab
- 2005 2007 Teaching Assistant, University of North Florida, Jacksonville, FL. Taught General Biology Lab, Principles in Biology Lab and Human Anatomy and Physiology II Lab

### **Research Experience**

- 2014 2018 Postdoctoral Fellow, University of New Mexico, Albuquerque, NM Department of Pathology, Mentor: Dr. Angela Wandinger-Ness
  - Project: Mechanisms of EGFR mediated control of endosomal Rab GTPase activity.
- 2008 2013 Graduate Research, University of Colorado, Boulder, CO Department of Molecular Cellular and Developmental Biology
  - Project: The guanine nucleotide exchange factors Vps9 and Mon1-Ccz1 coordinate endosome maturation in Saccharomyces cerevisiae
- 2004 2007 Research Associate, University of North Florida, Jacksonville, FL Biology Department, PI: Michael Lentz
  - Project: The role of host cell kinase CK2 in nuclear import of papillomavirus *E1* replication protein.

#### **Academic Service**

2018 - 2024	Biology Department Fa	aculty Member, Lo	s Medanos College
-------------	-----------------------	-------------------	-------------------

- Lead instructor of Microbiology and Introductory Cell and Molecular Biology
- Coordinate scheduling, staffing, materials and curricula for lecture and lab courses
- Screen and interview full-time and part-time faculty using equitable and inclusive strategies
- Evaluate part-time and full-time faculty to promote equitable teaching practices and student success
- Lead and supported curriculum assessment of multiple courses

#### 2019 - 2024 Curriculum Committee Faculty Member, Los Medanos College

- Approve course and program curricula across the college to promote equitable student success
- Ensure all college curriculum is in compliance with state law and transfer requirements
- Supported transition of course catalog to the eLumen digital platform

#### 2019 - 2024 MESA program Faculty Support, Los Medanos College

- Mentored students attending 2023 SACNAS NDISTEM conference
- Co-Organized 2023 LMC STEM Research Symposium, which allowed 50+ students to present their research.
- Supported student community building by participating in yearly MESA retreats

### 2016 & 2015 Organizer, *Art of Systems Biology and Nanoscience,* University of New Mexico • Coordinated multiple hands on science activities for children of all ages

#### 2012 Organizer, Graduate Student Symposium, University of Colorado, Boulder

	<ul> <li>Organized event attended by 200 people including graduate, undergraduate and high school students, faculty and general public</li> <li>Planned venue, food, travel, program, IT support &amp; promotional materials</li> </ul>	
Pedagogy Training and Professional Development		
2023	<ul> <li>SEPAL Scientific Teaching Summer Institute, San Francisco State University</li> <li>Explored how issues of equity and inclusion affect student learning</li> <li>Developed active learning techniques and assessments based on best practices for student learning and success.</li> <li>Worked collaboratively with faculty across institutions and disciplines to improve teaching skills</li> </ul>	
2020	<ul> <li>Becoming an Effective Online Instructor (BEOI), Los Medanos College</li> <li>Gained proficiency in creating online courses using Canvas learning management system</li> <li>Developed online modules using universal design practices</li> </ul>	
2019 - 2020	<ul> <li>Pedagogy Innovation Project, Los Medanos College</li> <li>Worked with a small cohort of faculty to incorporate best practices for equitable student success into course design</li> <li>Developed curriculum using backward design</li> <li>Shared ideas and best practices through peer classroom observation</li> </ul>	
2014 2016	Academic Science Edu, and Descereb Training (ASEDT), University of New Meyice	

# 2014 - 2016 Academic Science Edu. and Research Training (ASERT), University of New Mexico

- Completed pedagogy training course covering numerous aspects of curriculum development and grounded in evidence based methods
  - Completed numerous education and diversity workshops

## <u>Awards</u>

- 2015 2017 K12 NIGMS (IRACDA) Postdoctoral Fellowship, University of New Mexico
- 2014 2015 R25 Trainee, NCI Cancer Nanotechnology Training Center, University of NM
- 2007 2009 T32 Trainee, NIH Creative Training in Molecular Biology, University of CO, Boulder

## Mentored Undergraduate Students

2019	<ul><li>Talia Lahham, Undergraduate Research Project, Los Medanos College</li><li>Mentored student project development, scientific writing and presentations</li></ul>
2019	<ul><li>Amudalat Lanval, Honors Research Project, Los Medanos College</li><li>Mentored student project development, scientific writing and presentations</li></ul>
2016	Allison Kirk, Undergraduate Research Project, University of New Mexico

- Mentored student in all aspects of the summer program including project development, scientific writing and presentations
- 2009 2011 Dustin Chernick, Undergraduate Research Project, University of Colorado, Boulder
   Mentored student in all aspects of honors thesis project including research project, writing and presentation.

#### **Publications**

Lentz MR, **Shideler T** (2015) Phosphorylation of bovine papillomavirus E1 by the protein kinase CK2 near the nuclear localization signal does not influence subcellular distribution of the protein in dividing cells. *Archives of Virology*.

**Shideler T**, Nickerson DP, Merz AJ, Odorizzi G. (2015) Ubiquitin-binding by the CUE domain promotes endosomal localization of the Rab5 GEF Vps9. *Molecular Biology of the Cell.* 26, 1345–1356

Russell MR, **Shideler T**, Nickerson DP, West M, Odorizzi G. (2012) Class E compartments form in response to ESCRT dysfunction in yeast due to hyperactivity of the Vps21 Rab GTPase. *Journal of Cell Science*. 125, 5208–5220

#### Presentations, Posters and Meetings

Oct. 2023	SACNAS NDISTEM Conference, Portland, OR - Supported MESA students
July 2019	IRACDA Annual Conference, Ann Arbor, MI - Invited Panelist
Sep. 2016	FASEB Conference on GTPases in Trafficking, Atutophagy and Disease, West Palm Beach, FL - Invited Speaker
Jul. 2016	Q-bio Summer School, Albuquerque, NM - Guest Lecturer
Jun. 2016	Gordon Research Conference on Lysosomes and Endocytosis, Andover, NH - Poster
Jun. 2016	Gordon Research Seminar on Lysosomes and Endocytosis, Andover, NH - Session chair
Dec. 2015	American Society for Cell Biology, San Diego, CA - Poster
Dec. 2012	American Society for Cell Biology, San Francisco, CA - Poster
Jan. 2012	Keystone Symposia, Membranes in Motion, Lake Tahoe, CA - Poster
Dec. 2011	American Society for Cell Biology, Denver, CO - Poster

## **Research Skills and Training**

Proficient in maintenance and manipulation of mammalian, yeast and bacterial cell culture

Confocal Microscopy

- Proficient in sample preparation and imaging of mammalian cells and S. cerevisiae
- Strong working knowledge of high resolution confocal imaging including acquisition parameters and deconvolution.
- Proficient in quantitative fluorescence analysis methods including colocalization analysis

Computational Modeling of biological systems

- Acquired broad knowledge of biological modeling methods by attending Q-bio summer school
- Built a model describing endosomal Rab GTPase activity in response to EGFR activation

Biochemistry

- Proficient in protein purification from bacteria
- Proficient in sub-cellular fractionation
- Experienced in in vitro and in vivo protein binding assays

Electron Microscopy

- Proficient in high pressure freezing, low temperature embedding, chemical fixation, sectioning, subcellular structure identification and image acquisiton.
- Adapted a protocol for quantification of frequency and size of endosomes

Molecular Biology

- Proficient in genomic manipulations in S. cerevisiae
- Experienced in plasmid construction and verification for S. cerevisiae and E. coli
- · Experienced in yeast-two-hybrid assay

Software

- Proficient in Adobe Illustrator, InDesign and Photoshop;
- Proficient in Fiji/ImageJ