

Postdoctoral Fellow – University of Colorado - Boulder

Cameron Lab RASEI Boulder, CO 2016-2019

Doctoral Student – University of Utah

Hollien Lab Biology Department Salt Lake City, UT 2010-2016

Undergraduate Research Assistant – University of New Mexico

Dragoo Lab Biology Department Albuquerque, NM 2004-2008

GRANTS and FELLOWSHIPS

- American Society of Cell Biology Compass Grant Spring 2018
- Teach For America Microgrant Fall 2017
- NSF Biology Postdoctoral Fellowship Sep 2017-Sep 2019
- University of Utah Graduate Research Fellowship Aug 2014-July 2015
- NSF GK-12 Graduate Student Fellowship Aug 2012-July 2014

HONORS and AWARDS

- U.S. Department of Energy International Travel Fellowship Award (2018)
- Riser Award for outstanding graduate research in biology at the University of Utah (2016)
- Dale A. Stringfellow Award for outstanding research in molecular biology (2014)
- University of New Mexico Presidential Scholarship recipient (2004-2008; 8 semesters)

SERVICE and OUTREACH

- Making an Impact with Microbiology (creator/instructor) (2018 - present)
- Postdoctoral Association of Colorado Advisory Committee member (2016 - 2017)
- University of Utah Biology department Retreat Committee (2015)
- University of Utah Biology department Graduate Student Advisory Committee Chair (2013)
- Salt Lake Valley Science Fair judge (2013 - 2015)
- University of Utah Molecular Biology (MB) student representative for the Graduate Admissions Committee (2012 & 2013)
- University of Utah Molecular Biology Student Retreat Committee (2012)
- University of Utah Biology department student representative for the Retention, Promotion, and Tenure Committee (2012)

CERTIFICATIONS

Licensed chemistry teacher in the District of Columbia 2010-2015

PUBLICATIONS IN PROGRESS

- **Moore KA**, Tay JW, Cameron JC. Multi-generational Analysis and Manipulation of Chromosomes in a Polyploid Cyanobacterium. Submitted to *Cell Reports*. pre-publication manuscript available at: <https://www.biorxiv.org/content/biorxiv/early/2019/06/05/661256.full.pdf>)

PUBLICATIONS

- **Moore KA**, Altus S, Tay JW, Meehl JB, Johnson EB, Bortz DM, & Cameron JC. Mechanical Regulation of Photosynthesis in Cyanobacteria. (2020). *Nature Microbiology*. <https://doi.org/10.1038/s41564-020-0684-2>

- Labella ML, Hujber EJ, **Moore KA**, Rawson RL, Merrill SA, Allaire PD, Ailion M, Hollien J, Bastiani MJ, Jorgensen EM. Casein kinase 1 δ stabilizes mature axons by inhibiting transcription termination of Ankyrin. (2020). *Developmental Cell*. 52: 88-103.
- Dae B, **Moore KA**, Mella JM, Hayashi SY, Hollien, J. Degradation of *Blos1* mRNA by IRE1 Repositions Lysosomes and Protects Cells from Stress. (2019). *Journal of Cell Biology*. 218(4).
- Nelson JO, **Moore KA**, Chapin A, Hollien J, Metzstein, MM. Degradation of Gadd45 mRNA by nonsense mediated decay is essential for viability. *eLife*. (2016). 10.7554/eLife.12876.
- **Moore KA** & Hollien J. Ire1-mediated decay in mammalian cells relies on mRNA sequence, structure, and translational status. *MBoC*. (2015). 26(16): 2873-84.
- **Moore KA**, Plant JJ, Gaddam D, Craft J, & Hollien J. Regulation of sumo mRNA during endoplasmic reticulum stress. *PLoS ONE*. (2013). 8(9): e75723
- **Moore KA** & Hollien, J. The unfolded protein response in secretory cell function. *J. Annual Review of Genetics*. (2012). 46: 165-183.
- Dragoo JW, Coan KE, **Moore KA**, Henke SE, Fleischer RC, & Wisely SM. Polymorphic microsatellite markers for the striped skunk, *Mephitis mephitis*, and other mephitids. *Molecular Ecology Resources* (2009). 9: 383-385.
- Polecula PJ, Burns AG, Rist S, **Moore KA**, Dragoo JW. First physical evidence of the Nearctic river otter (*Lontra Canadensis*) collected in New Mexico, USA, since 1953. *IUCN Otter Specialist Group Bulletin*. (2004). 21(2):70-74.

SELECTED ORAL and POSTER PRESENTATIONS

- **Moore KA**, Tay JW, Cameron JC. Manipulation of Polyploidy in Cyanobacteria. Invited seminar speaker. University of Tennessee – Knoxville, Biochemistry & Cellular and Molecular Biology Department. (2020). Aug 19; Zoom
- **Moore KA**, Tay JW, Cameron JC. Multi-Generational Analysis and Manipulation of Polyploidy in Cyanobacteria. Oral presentation at the Western Photosynthesis Conference (2020). Jan 3; Bodega Bay, CA.
- **Moore KA**, Tay JW, Cameron JC. The Dynamics of Polyploidy in Cyanobacteria. Seminar Speaker at the University of Northern Colorado. (2019). Feb 1; Greeley, CO.
- **Moore KA**, Firman T, Tay JW, Ghosh K, Cameron JC. The Dynamics of Polyploidy in Cyanobacteria. Oral presentation at the International Symposium on Phototrophic Prokaryotes. (2018). Aug 8; Vancouver, Canada.
- **Moore KA**, Altus S, Tay JW, Fox J, Johnson EB, Bortz DM, Cameron JC. Mechanical Regulation of Photosynthesis. Oral presentation at the Southeast/Midwest Photosynthesis Conference (2017). Oct 28; Turkey Run State Park, IN.
- **Moore KA**. Diabetes: It's just sugar. What's the big deal? Oral presentation at the Salt Lake County Jail and Utah State Prison in conjunction with the University of Utah INSPIRE program. (2015). Sept 28 and May 10; Salt Lake City, UT
- **Moore KA** & Hollien J. Ire1 and Perk coordinately regulate mRNA decay during the unfolded protein response. Oral presentation at the EMBO Conference: The Endoplasmic Reticulum as a Hub for Organelle Communication. (2014). Oct 30; Girona, Spain.