Curriculum Vitae

Kristin Ann Moore

Address: University of Colorado Boulder
Molecular, Cellular, & Developmental Biology (MCDB) Department
UCB 347
1945 Colorado Avenue, Rm A1B27
Boulder, Colorado 80309
Office: 303-735-2723
Fax: 303-492-7744
Email: Kristin.a.moore@colorado.edu

EDUCATION

Ph.D., Biology	University of Utah	Salt Lake City, UT	2016

Doctoral Thesis: *Mechanisms and functions of mRNA decay during endoplasmic reticulum stress*
Advisor: Dr. Julie Hollien

M.A., Teaching	American University	Washington, DC	2010
B.S., Biochemistry	University of New Mexico	Albuquerque, NM	2008

Honors Thesis: *Gender determination of Nearctic otter scat from northern New Mexico*
Advisor: Dr. Jerry Dragoo

APPOINTMENTS

Teaching Assistant Professor	MCDB, University of Colorado, Boulder	2020-present
Visiting Assistant Professor	Molecular Biology, Colorado College	2019-2020
Instructor	CU Science Discovery	2019
Postdoctoral Fellow	RASEI, University of Colorado Boulder	2016-2019
Adjunct Professor	Salt Lake Community College	2016
Graduate Research Assistant	Biology, University of Utah	2010-2016
Teacher	Ballou Senior High School	2008-2010
Undergraduate Research Assistant	Biology, University of New Mexico	2004-2008

TEACHING EXPERIENCE

Cellular Basis of Disease – MCDB 4444	University of Colorado Boulder	2024-present
Undergraduate Teaching in CURE – MCDB 3010	University of Colorado Boulder	2023-present
Independent Study – MCDB 4840	University of Colorado, Boulder	2021-2022
NeuroCURE: Pathway to Ph.D. – Collaboration With Zoe Donaldson (CU), Andrew Bonham (MSU), & Cynthia Erickson (MSU)	Metropolitan State University of Denver & University of Colorado Boulder	2021-present
The Cell Biology Laboratory – MCDB 3140	University of Colorado, Boulder	2020-present
Laboratory in Molecular and Cellular Biology and Genetics – MB 201	Colorado College	spring 2020
Biotechnology and Genetic Engineering – MB310	Colorado College	spring 2020
Introduction to Molecular and Cellular Biology – MB131	Colorado College	2019-2020
Microbiology Academy	CU Science Discovery	summer 2019
Pre-Collegiate Molecular Biology	CU Science Discovery	summer 2019
Advanced Molecular Methods – BTEC 2040	Salt Lake Community College	spring 2016
Chemistry (bi-weekly guest instructor)	Salt Lake Center for Science Education	2012-2013
High School Chemistry	Ballou Senior High School	2009-2010
High School Environmental Science	Ballou Senior High School	2008-2009

STUDENT ADVISING & MENTORING

Undergraduate Students

Jillian Frank	University of Colorado, Boulder	summer 2021-spring 2022
Honors Thesis: *Causation and Consequences of Polyploidy in Cyanobacteria PCC 7002*		
Alden Mallory	University of Colorado, Boulder	summer 2021-spring 2022
Christina Cox	University of Colorado, Boulder	fall 2021-spring 2022
Jonathan Hester-McCullough	University of Colorado, Boulder	summer 2021-fall 2021
Natalie Golovanov	University of Colorado, Boulder	summer 2021
Dillon Henritze	University of Colorado, Boulder	summer 2021
Grace Lee	University of Colorado, Boulder	summer 2021
Charmie Vang	Colorado College	fall 2019-spring 2020

Graduate Students

Zachary Hazlett	University of Colorado, Boulder	spring 2022 (rotation)

GRANTS & FELLOWSHIPS

University of Colorado ASSETT Innovation Incubator Award (Co-PI; 3-year, $65,000)		2023
University of Colorado Office of Outreach and Engagement Microgrant Award (1-year, $2,500)		2021
Mary Soler Endowed Award for Professional Development (1-year, $3000)		2021
American Society of Cell Biology Compass Grant (1-year, $500)		2018
Teach For America Microgrant (1-year, $3000)		2017
NSF Biology Postdoctoral Fellowship		2017-2019
Award#: 1711932	Proposal Title: *Incidence and Consequence of Prokaryotic Polyploidy*	Role: Principal Investigator
University of Utah Graduate Research Fellowship		2014-2015
NSF GK-12 Graduate Student Fellowship		2012-2014
Award #: 0841233	Proposal Title: *Think Globally, Learn Locally*	Role: Graduate Fellow

HONORS & 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)

ACADEMIC & PROFESSIONAL SERVICE

Boulder Faculty Assembly Intercollegiate Athletics Committee Representative	2022-present
Instructor with the SCOPE outreach project	2022
Facilitated undergraduate internships at Inotiv	2022
University of Colorado AB Nexus Grant Reviewer	2022
Scientist Opinion Panel Survey (SciOPS) Panelist	2022-present
Departmental Honors Committee Member (MCDB)	fall 2021-present
Undergraduate Research Opportunities Program (UROP) Student and Team Grant Reviewer	2021-present
Beverly Sears & Cynthia H. Schultz Grant Reviewer	2022
Research and Innovation Office (RIO) SEED Grant Reviewer	2021
Invited Panelist for the Postdoctoral Association of Colorado's *Advice and insights on the academic job search* seminar	Nov. 13, 2020
Collaboration with Centaurus High School Biotechnology Course	2019-present
Making an Impact with Microbiology (creator/instructor)	2018-present
Postdoctoral Association of Colorado Advisory Committee member	2016-2017
University of Utah Biology Department Graduate Student Social Committee Chair	2014-2015
University of Utah Biology Department Graduate Student Advisory Committee Chair	2013-2014
Salt Lake Valley Science Fair judge	2013-2015
University of Utah Biology Department student representative for the Retention, Promotion, and Tenure Committee	2012-2013
University of Utah Molecular Biology student representative for the Graduate Admissions Committee	2012-2013
University of Utah Molecular Biology Student Retreat Committee	2012 & 2015

PROFESSIONAL DEVELOPMENT

Faculty Fellow	University of Colorado – ASSETT	2023-2024
Learning by Design Program participant	University of Colorado – Learning by Design Program	Fall 2023
Teaching Triad Participant	University of Colorado – CTL	2023
Visualizing Instructional Practices Participant	University of Colorado – CTL	2023
Participant in the ACUMent Mentorship Program	University of Colorado – ACUMent	2022-present
Improving Career and Engagement Outcomes of First-Generation Graduates	University of Colorado – First Generation Programs and Enrichment	2022
Thriving at CU seminar series	University of Colorado – Faculty Affairs	2020-2021
College of Arts & Sciences Faculty Development Program (FDP)	University of Colorado – College of Arts & Sciences	2020-2021
Faculty Scholars Group for International Student Success (FSGISS)	University of Colorado	spring 2021
Strategic Course Design for Flexible Teaching Modes	University of Colorado – ASSETT	spring 2021

CERTIFICATIONS

Licensed chemistry teacher in the District of Columbia 2010-2015

PUBLICATIONS

Preprint

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)

Published

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 1δ 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).

-Highlighted in Science Magazine "Editors' Choice" section, Vol 363, 22 March 2019
-Highlighted in F1000Prime
-Highlighted in JCB Special Collection in Lipid and Membrane Biology, July 2019

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 & POSTER PRESENTATIONS

Moore KA. & Lee, SR. A collaborative network aimed at increasing relevance and support for *Tetrahymena*-focused CUREs. Selected speaker at Ciliates Molecular Biology Meeting (2023). July 20; Hybrid.

Hester-McCullough J*, **Moore KA**. A systematic analysis of internal controls for measuring gene expression in *Tetrahymena thermophila*. Poster presentation at Ciliates Molecular Biology Meeting (2021).

*Undergraduate author under my supervision

Moore KA. Ciliates as a Model Organism for Large Course-based Undergraduate Research Experiences. Selected speaker at Ciliates Molecular Biology Meeting (2021). July 20; Zoom.

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.