

Mlana Lore

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EDUCATION

University of Colorado Anschutz Medical Campus, Aurora, CO 2021-present
First Year PhD Student in Molecular Biology

Eckerd College, St Petersburg, FL 2017-2021
Bachelor of Science in Biology 4.0 GPA
Chemistry Minor

Undergraduate Thesis in Biology: *Significance of the Conserved Core and Variable Termini of Yeast DEAD-box Protein Dbp6*

HONORS AND AWARDS

- 2021 NSF GRFP Honorable Mention
- Eckerd College Senior Award for Academic Excellence in Biology
- Eckerd College Natural Sciences Collegium Scholarship and Service Award
- 2020 Barry Goldwater Scholar (\$7500)
- First Annual Carlos Barbas III Research Fellowship Award (\$2000)
- President Kappa Delta Epsilon Chapter TriBeta Biological Honor Society 2020-21
- Eckerd College Ford Apprentice Scholar (\$2300)
- Phi Beta Kappa Peter Pav First Year Scholar
- Vaught Family Annual Scholarship for Liberal Arts and Sciences (\$2500)
- Freshman Research Associateship Grant (\$1000)
- Founder's Merit Scholarship for Undergraduate Study (\$21,000 annually)
- Conover Endowed Scholarship for Chemistry (\$1600)

RESEARCH AND INTERNSHIP EXPERIENCE

NIH Summer Internship Program / June – Aug 2021
National Institute of Environmental Health Sciences, Durham, NC
PI: Dr. Trevor Archer

- Analyzed alternative RNA splicing patterns during induced pluripotency

Neurology Laboratory Intern | Jun - Aug 2019
Massachusetts General Hospital Center for Genomic Medicine, Boston, MA
PI: Dr. W. Taylor Kimberly

- Designed and performed gene and protein expression assays to investigate biomarkers of secondary injury in ischemic stroke using rat fibroblast model

Biochemistry Research Assistant / Aug 2018 – May 2021
Eckerd College, St. Petersburg, FL
PI: Dr. Crystal Young-Erdos

- Truncational analysis and site-directed mutagenesis of yeast RNA helicase Dbp6

Toxicology Intern / May - Jul 2018
Chimerix, Durham, NC
PI: Dr. Randall Lanier

- Compiled and analyzed anti-viral drug toxicology literature and data

Freshman Research Associate in Marine Science / Aug 2017 - May 2018

Eckerd College, St. Petersburg, FL

PI: Dr. Amy Siuda

- Developed novel lipid staining method to quantify microplastics in Tampa Bay

RELEVANT PROFESSIONAL EXPERIENCE

Chemistry and Biology Tutor / Jan 2019 – May 2021

Eckerd College, St. Petersburg, FL

- Tutored undergraduate students in Organic Chemistry, Biochemistry, Cell Biology, Ecology and Evolution, and Genetics and Molecular Biology courses

Laboratory Teaching Assistant / Jan 2019 – May 2021

Eckerd College, St. Petersburg, FL

- Facilitated Genetics and Molecular Biology and Cell Biology labs

Peer Mentor / Jun 2018 - May 2019

Eckerd College Student Affairs, St. Petersburg, FL

- Academic and social mentor to 22 first year students

PUBLICATIONS AND PRESENTATIONS

- **Lore, M.**, Bisogno, L., Archer, T., *Alternative Splicing Dynamics are Linked to Reprogramming Efficiency-Associated Gene Expression During Induced Pluripotency*. Poster presented at: NIH Summer Internship Program; Jul 2021. **Second Place Winner Undergraduate Poster Competition.**
- **Lore, M.**, DeMarzo, P., Young-Erdos, C. *Significance of the Conserved Core and Variable Termini of Yeast DEAD-box Protein Dbp6*. Poster presented at: 25th Annual ASBMB Meeting; Apr 2021. **First Place Winner Undergraduate Poster Competition in RNA and Microbiology.**
- **Lore, M.**, DeMarzo, P., Young-Erdos, C. *Significance of the Conserved Core and Variable Termini of Yeast DEAD-box Protein Dbp6*. Oral presentation at: Southeastern Regional Yeast Meeting; Apr 2021. **Winner Outstanding Undergraduate Oral Presentation.**
- **Lore, M.**, DeMarzo, P., Young-Erdos, C. *Investigating the N- and C- Terminal Extensions of the Yeast DEAD-box Protein Dbp6*. Poster Presented at: National Collegiate Research Conference; Jan 2021.
- **Lore, M.**, Sastre, C., Kimberly, W.T. *Secondary Injury in Stroke: A Molecular Characterization of sST2*. Oral presentation at: Center for Genomic Medicine; Aug 2019; Cambridge, MA.
- DeMarzo, P., **Lore, M.**, Young-Erdos, C. *Investigating the N- and C- Terminal Extensions of the Yeast DEAD-box Protein Dbp6*. Poster Presented at: RNA Society Online Meeting; May 2020, University of South Florida Castle Conference; Mar 2020; Tampa, FL, and Eckerd College Student Research Symposium; Mar 2019; St. Petersburg, FL.
- Gallagher, J., Necker, J., **Lore, M.**...Siuda, A. *An Updated Methodology for Quantitative Analysis of Microplastics in Tampa Bay*. Poster presented at: Eckerd College Student Research Symposium; Mar 2018; St. Petersburg, FL.