



*A Presentation of Student
Research Celebrating Discovery
and Education in the Biological
Sciences.*

The 2021 Research Day event is happening virtually this year. It will take place on Friday April 2, 2021. For more information on the Zoom schedule please contact **Dorothy Scholl**, scholld@unm.edu.

**To view the oral presentations, please use this Zoom link:
91348645863**

This year's schedule of events:

Friday, April 2, 2021

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|--------------------|--------------------|
| 9:00 am – 12:00 pm | Oral Presentations |
| 1:00 pm – 2:30 pm | Oral Presentations |

Presentation Critique Forms Click here:



University of New Mexico Biology Department Annual Research Day

A virtual event via Zoom on Friday April 2, 2021

This year we will only have oral presentations. We have 17 total talks by undergraduate students, MARC students and graduate students. Talks will be pre-recorded by presenters, but presenters will be available on Zoom to answer questions at the end of each talk. Talks will be presented in three sessions, beginning at 9:00am. U = undergraduate student; G = graduate student; MARC = “maximizing access to research careers,” an NIH-funded program for undergraduates to prepare them for graduate school and careers in STEM fields.

Session 1: 9:00-11:00am

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| #1 | 9:00-9:15 | Isabelle Monroe | U | Sex differences in play style among wild East African chimpanzees (<i>Pan troglodytes schweinfurthii</i>) |
| #2 | 9:15-9:30 | Laura Martinez | U | Soil nematode assemblages respond to interacting environmental changes |
| #3 | 9:30-9:45 | Amanda Solnitzky | U | Sensitivity of semi-arid biomes to drought |
| #4 | 9:45-10:00 | Taylor Portman | U | Unique root-associated fungal communities associated with uranium mining in New Mexico |
| #5 | 10:00-10:15 | Aysu Caglar | U | Molecular Mechanisms That Regulate Fate Specification of Dorsal Fan Shaped Body (dFB) Neurons in <i>Drosophila melanogaster</i> |
| #6 | 10:15-10:30 | Brooke Dunn | U | A Latitudinal Study of Arctic Soil Bacterial Communities |
| #7 | 10:30-10:45 | Christopher Gallegos | U | Identification of cave bacteria from three park systems shows difference in diversity and rate of growth |
| #8 | 10:45-11:00 | Antonella Riega | U? | unconfirmed |

11:00-11:15 - 15 minute break

Session 2: 11:15 – 12:15

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| #9 | 11:15-11:30 | Raven Otero-Symphony | MARC | Interaction Effects between Gene Mutations and Smoking on Survival Among Non-Small Cell Lung Cancer Patients in a Clinical Sequencing Cohort |
| #10 | 11:30-11:45 | Anthony Abeyta-Lopez | MARC | Development of CX3CR1 agonists using drug repurposing methods |
| #11 | 11:45-12:00 | Kat Schroeder | G | The Influence of Juvenile Dinosaurs on Community Structure and Diversity |
| #12 | 12:00-12:15 | Brooke Wainwright | G | What does the future look like? Exploring plant community change at the germination level |

12:15-1:30 – Lunch Break

Session 3: 1:30-2:45pm

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|---------|---------------|---------------------|---|---|
| #1 3 | 1:30- 1:45 | Ethan Gyllenhaal | G | The importance of gene flow in archipelagos: case study in a Pacific island flycatcher |
| #1 4 | 1:45- 2:00 | Kevin McQuirk | G | Immunobiology of rewilded <i>Physella acuta</i> |
| #1 5 | 2:00- 2:15 | Jonathan Keller | G | Grasshopper mice of unusual size: Climate- and extinction-driven ecological shifts in <i>Onychomys</i> over 22,000 years at Hall's Cave |
| #1 6 | 2:15- 2:30 | Lucius Toll | G | Pulling teeth: Comparing body size inferences from teeth vs empty sockets |
| #1 7 | 2:30- 2:45 | Anastasia Pittis | G | The Challenges of Testing UV-C Treatment on Cave Microbial Communities Due to Shielding Effects |