

# GSPA NEWSLETTER

GSPA



03 October 2024



PHOTO BY KIRA BOYCE

Graduate students and professors alike gathered to welcome in the new year with lawn games, good food, and outdoor fun!

## Here's what has happened in the last month and what's to come!

Congratulations to the new EXPAND Fellows: Noah Brown, Ethan Kadiyala, Omina Nazarzoda, Abbey Ramirez, Clara Stahlmann Roeder, & Will Tucker! EXPAND is an NSF Training Grant that allows fellows to conduct research on the phenotype in ways that integrate multiple life sciences disciplines in biology, neuroscience, evolution, ecology, psychology and environmental science.

**ROBIN COSTELLO**

"Multilevel selection on social network traits differs between sexes in experimental populations of forked fungus beetles"

SOCIETY FOR THE STUDY OF EVOLUTION  
SSE PRESIDENTS' AWARD FOR OUTSTANDING DISSERTATION PAPER IN EVOLUTION  
HONORABLE MENTION

PhD candidate Robin Costello won 2024 Honorable Mention for Outstanding Dissertation Paper from the Society for the Study of Evolution



Gibson lab graduate student Abbey Ramirez and former Gibson lab postdoc Prof. Fabiane Mundim presented their work at the annual Society of Nematologists Meeting!

Received: 15 February 2024 | Revised: 13 June 2024 | Accepted: 1 July 2024  
DOI: 10.1002/alz.14144

RESEARCH ARTICLE

Alzheimer's & Dementia  
THE JOURNAL OF THE ALZHEIMER'S ASSOCIATION

Disrupted mitochondrial response to nutrients is a presymptomatic event in the cortex of the APP<sup>SAA</sup> knock-in mouse model of Alzheimer's disease

Andrés Norambuena<sup>1</sup> | Vijay Kumar Sagar<sup>1,2</sup> | Zhuoying Wang<sup>3</sup> | Prakash Raut<sup>1</sup> | Ziang Feng<sup>2</sup> | Horst Wallrabe<sup>1,2</sup> | Evelyn Pardo<sup>1</sup> | Taylor Kim<sup>1</sup> | Shagufra Rehman Alam<sup>1,2</sup> | Song Hu<sup>3</sup> | Ammasi Periasamy<sup>1,2</sup> | George S. Bloom<sup>1,4,5</sup>

mouse model. This event occurs months before the appearance of any other AD-related pathological feature. Thus, their observations unveil one of the earliest molecular missteps in AD pathogenesis.

A new publication from the Bloom Lab! In this study, they provide evidence of a communication glitch between lysosomes and mitochondria in the live mouse cortex of the APP Knock-in mice, an Alzheimer's disease (AD)

Members of the Gibson Lab attended the Joint Congress on Evolutionary Biology in Montreal from July 26-August 30. Postdocs Caroline Amoroso and Linyao Peng, graduate students Louis Bubrig, Juliana Jiranek, Linyao Peng, and Abbey Ramirez, and technician Tessa Batterton all presented their research!



### EVENTS TO KEEP AN EYE OUT FOR:

**Halloween Party!**  
Wednesday, October 30th  
5:00 pm - 7:30 pm  
PLSB 4th floor balcony

**Monthly GSPA Meeting**  
Tuesday, October 8th  
10:00 am - 11:00 am  
Gilmer 490

**Weekly Coffee Hour:**  
Wednesdays 12:30-1:30  
PLSB 4th floor balcony

**Accelerate to Industry™**  
PRODUCED BY THE NC STATE UNIVERSITY GRADUATE SCHOOL

**Industry Insights Series**

Join us for a four-part webinar series specifically for the A2i community. The first session will be presented by Lauren Catalano, co-founder and CEO of Propel Careers. Learn more about this series [HERE](#).

**TOPIC:** Career Opportunities in the Life Sciences Sector

Sept. 6, Oct. 7, Nov. 11, Dec. 2

12 - 1pm est.

Register Today!

"All outstanding work, in art as well as in science, results from immense zeal applied to a great idea." – Santiago Ramón y Cajal