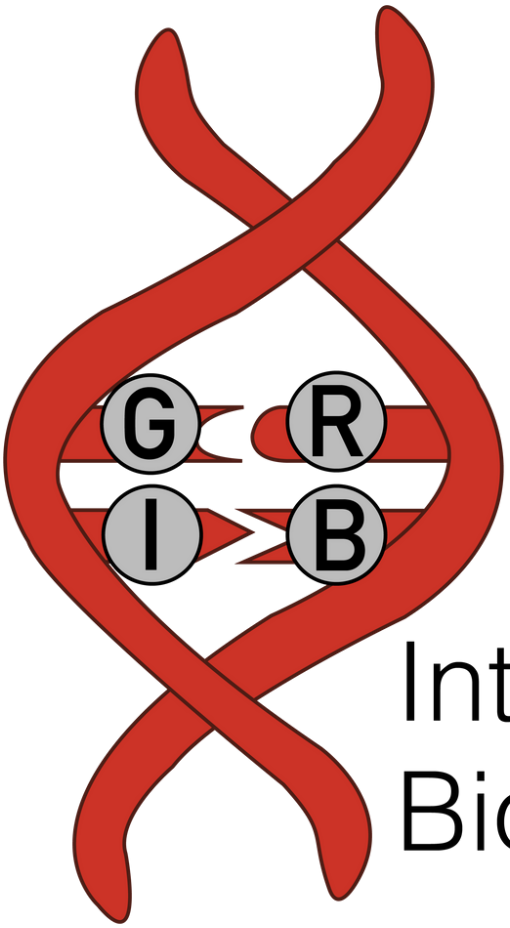

Graduate Research in Interdisciplinary Biosciences

Trayes Hall, Douglass Student Center

Tuesday, April 12, 2022

8:30 AM - 4:15 PM

Graduate Research in Interdisciplinary Biosciences

CONFERENCE SCHEDULE

Click here for more information about our speakers!

8:30-9:00 am: Registration & Breakfast

9:00-9:15: Welcome & Introductions

9:15-9:30: Opening Remarks
Jonathan Holloway, Ph.D.
President, Rutgers University

9:30-10:30: Research Keynote
John J. Guers, Ph.D.
Rider University, Department of Biology, Behavioral Neuroscience and Health Science - Traditional and nontraditional therapeutic uses of exercise

10:30-10:45: Networking Break

10:45-11:15: Traci Jessop-McCarthy
Kinesiology & Applied Physiology Ph.D. Candidate - The effects of exercise during pregnancy on sleep, low back pain, and fetal hemodynamics

11:15-11:45: Ke Sui
Food Science Ph.D. Candidate -
Potential of cannabidiol to alleviate metabolic disorders resulting from estrogen deficiency

11:45 am-12:45 pm: Lunch & Poster Session
Live poster session presentations and networking with industry sponsors

12:45-1:45 pm: Common Interest Keynote - Rebecca Shansky, Ph.D.
Northeastern University, Department of Psychology - Why considering sex as a biological variable is just good science

1:45-2:15: Gregory (Eli) Berger
Endocrinology & Animal Biosciences Ph.D. Candidate - Chemogenetic manipulation of orexin neuronal activity in binge-like eating/the role of orexin in binge eating

2:15-2:30: Networking Break

2:30-3:00: Esther Mezhibovsky
Nutritional Sciences Ph.D. Candidate -
Dietary grape polyphenols reduce diet induced weight gain in male mice by increasing activity along the hypothalamic-pituitary-adrenal axis

3:00-4:00: Career Keynote
Alex Dainis, Ph.D.
Helicase Media, LLC - Science communication as a career path and research aid

4:00-4:15: Poster Competition Awards & Closing Remarks - Poster Competition awards made possible by Rutgers IFNH

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Invited Keynote Speakers

John J. Guers, Ph.D.

Rider University - Department of Biology, Behavioral Neuroscience and Health Science

Dr. Guers will present an overview of his own research and other current literature examining the therapeutic potential of exercise. While the therapeutic value of exercise is well recognized in the prevention and treatment of diseases of the heart and vessels, as well obesity, it is far less considered in the treatment of psychological disorders and addiction.

Rebecca Shansky, Ph.D.

Northeastern University - Department of Psychology

Male rodents have been the default model organism in biomedical research for decades, mainly due to flawed beliefs that ovarian hormones in females will complicate data. In her talk at GRIB 2022, Dr. Shansky will debunk this belief and discuss best practices for designing experiments using both sexes.

Alex Dainis, Ph.D.

Video Producer and Owner - Helicase Media, LLC

As researchers, we can empower the public to use the findings of science rather than be turned away by them. At GRIB 2022, Dr. Dainis will discuss her path to a career as a science communicator, as well as how communication strategies can help scientists present and further their own work.

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Rutgers Graduate Student Speakers

Traci Jessop-McCarthy

Kinesiology & Applied Physiology Ph.D. Candidate

Traci will highlight the methods and preliminary results of an ongoing study examining the role of exercise during pregnancy on sleep and low back pain as well as the effect of resistance exercise at various intensities for fetal heart rate and placental blood flow.

Ke Sui

Food Science Ph.D. Candidate

Ke will discuss the potential for cannabidiol to modulate the gut-bone axis to improve glucose, energy, and bone metabolism in estrogen-deficient mice.

Esther Mezhibovsky

Nutritional Sciences Ph.D. Candidate

Esther will discuss the relationship between obesity and a dysregulated hypothalamic-pituitary-adrenal (HPA) axis. Grape polyphenols (GPs) attenuate diet induced obesity by increasing energy expenditure and circulating corticosterone. She predicts that GPs improve HPA axis adaptations to a hypercaloric diet.

Gregory (Eli) Berger

Endocrinology & Animal Biosciences Ph.D. Candidate

Eli will discuss a rodent model of binge eating to interrogate the role of the central orexin system on binge-like eating using chemogenetic techniques. The major goal of this study is to investigate the interaction between restrictive eating and access to highly palatable rewarding foods in the development of binge eating.

Graduate Research in Interdisciplinary Biosciences

GRIB 2022 is hosted by

Nutritional Sciences,
Endocrinology & Animal Biosciences,
Food Science, and Kinesiology
& Applied Physiology GSOs

GRIB 2022 is made possible by

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Nutritional Sciences, Animal Sciences,
and Food Science

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