

Therapeutic Sciences Graduate Program



BROWN

Division of Biology and Medicine

October 2, 2023 Issue 2

TSGP News:



Helen Belato successfully defended her dissertation on September 18th. Congratulations, Dr. Belato!



TSGP has a new trainer, Karthikeyani Chellappa PhD. She will be meeting with our first year students this month and presenting at our next seminar. Welcome, Dr. Chellappa!




Dominique Walker received a travel award from ABRCMS to attend their annual conference in Phoenix, AZ. She is giving an oral presentation at this conference. Way to go, Dom!

In the Spotlight:




Therapeutic Sciences
Graduate Program



BROWN
Division of Biology and Medicine

PhD Thesis Defense Presentation
Andrew Howes
Advisor: Dr. Michelle Dawson



**“Quantitative
nonlinear imaging
assessment of
pulmonary
senescence-
associated
extracellular matrix
remodeling.”**

**Monday, November 6, 2023
10:00 AM EST**

Location: Barus and Holley 190
Via Zoom: <https://brown.zoom.us/j/91600608803>



The 2023-24 Seminar Series Continues on 10/27

Abstract

Metabolism goes awry in aging and a number of pathological diseases including obesity, cancer, and neurodegenerative diseases. Stable isotope tracing technique provides unparalleled insight into metabolic history across biological scales and holds potential to identify novel molecular targets to improve disease outcomes. In this seminar, Dr. Chellappa will tell us about how she used this powerful tool to gain new insights into an ancient molecule, nicotinamide adenine dinucleotide (NAD). Her recent work has answered several fundamental questions related to NAD biology, including (1) How does NAD level decline with age? (2) How are NAD precursor supplements that are currently in clinical trials metabolized at an organismal level? and (3) How do gut microbiome make NAD?. The newly established Chellappa lab at Brown University will use stable isotope tracing and mass spectrometry to study the dynamic role of metabolism in driving complex phenotypes in health and diseases.

Therapeutic Sciences Seminar Series

Presents

Karthikeyani Chellapa, PhD

Assistant Professor, Brown Department of Molecular Microbiology and Immunology
Assistant Professor, Brown Center on the Biology of Aging

Hosted by: The TSGP Program



"Metabolic tracing in health and disease."

Friday, October 27, 2023
12:00 PM EST
Barus & Holley 190
184 Hope Street

Amgen MA External Outreach Program Fall 2023 Lecture Series

Amgen Massachusetts will be hosting a 2023 Fall Semester Lectures series starting on October 5th. It is a 6-week program, occurring weekly on Thursdays (3-5 pm EST) until November 9th. The virtual lectures will be scheduled as a single 2-hour session per week, each session includes 2 lectures and a Q/A session. To end the series there will be a Career Talk with a panel of Amgen volunteers to speak with the students on their journey from school to industry in hopes of guiding students to get prepared for industry jobs. We are hoping these lectures will reach out to many students that are considering a future in biotech. Please see the current lecture schedule and the Webex link for the meeting series below.

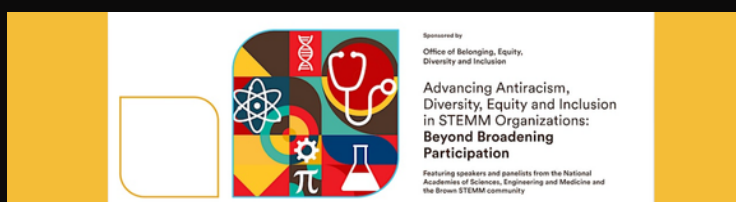
Topic	Title	Lecturer	Proposed Date/Time
Holistic overview of drug development process	<i>Life of a Drug</i>	<i>Rahul Sangodkar (USAM)</i>	10/05/2023, 3-4 pm
Target Identification & Validation	<i>Target Identification & Validation</i>	<i>John Ferbas (USTO)</i>	10/05/2023, 4-5 pm
Overview of Drug Modalities	<i>Drug Discovery at Amgen: A Multi-Modality Approach</i>	<i>Juma Bridgewater (USAM)</i>	10/12/2023, 3-4 pm
Small Molecule Process Development	TBD	TBD	10/12/2023, 4-5 pm
Commercialization / Devices	<i>Combination Product Development</i>	<i>Calvin Clark (USAM)</i>	10/19/2023, 3-4 pm
IP Law	<i>Careers in Patent Law</i>	<i>Cynthia Chen (USAM) / Mark Metzke (USAM)</i>	10/19/2023, 4-5 pm
The role of Regulatory Affairs	<i>The FDA Drug Approval Process – Role of Regulatory Affairs</i>	<i>Augustus Kamassah (USAM)</i>	10/26/2023, 3-4 pm
Process Development	<i>Process Development from Clinic to Approval</i>	<i>Kelsey O'Donnell (USAM)</i>	10/26/2023, 4-5 pm
Raw Materials Supply Chains	<i>Raw Material Selection and Control for Manufacturing Pharmaceuticals</i>	<i>Zack Zhou (USAM)</i>	11/02/2023, 3-4 pm
Product and Process Modeling	TBD	<i>Neeraj Agarwal (USAM)</i>	11/02/2023, 4-5 pm
Human Resources & Corporate Affairs	<i>Careers in Biotech - Beyond the lab</i>	<i>Christian Oster (USAM) & Sharon Mathelus (USAM)</i>	11/09/2023, 3-4 pm
Career panel	<i>Career Panel</i>	<i>Burcin Yavuz (USAM)</i>	11/09/2023, 4-5 pm

Join the meeting from this link:

<https://amgen.webex.com/amgen/j.php?>

MTID=m265005cc49d961936bc57f2ca65e7c73

Opportunities:



October 26, 10am-6:30pm

The Warren Alpert Medical School, Providence, RI
The Division of Biology and Medicine at Brown University is proud to present leaders from the National Academies of Sciences, Engineering and Medicine and the Brown STEM community as they share methods to promote antiracism and DEI in science and medicine. Please register to attend by October 16th.

[Learn More and Register](#)

2023 GSC Quality of Life Survey

The Graduate Student Council (GSC) has put together our 2023 GSC Quality of Life Survey in order to help us to continue advocating for improvements to graduate student quality of life on campus and to continue to provide improvements on housing, living, and advising/representation. To best communicate these aspects of graduate student life to departments, University administration, and key stakeholders, we ask that you take a few minutes out of your day to fill out [this survey](#).



M\$D MODULE

**Applying for & Winning
STEM Fellowships**

MODULE LEADER: Brenda Rubenstein, PhD
SENIOR SCHOLARS: Melanie Ortiz Alvarez De La Campa & Vinnie Widjaja

Participants will become familiar with

- Available STEM graduate fellowships and the practical benefits of receiving such fellowships;
- The typical components of graduate fellowship applications, including research and personal statements, and how they are evaluated according to Intellectual Merit and Broader Impacts criteria;
- How to draft effective research statements and engaging personal statements

**Thursday 10/12 & Friday 10/13
3:00-5:00pm**

Location: Smith-Buonanno Hall, Room 601

Register: <https://forms.gle/U96PQ67p2d8Qa1619>



TS Graduate Students Say Cheese!

TSGP Calendar:

1st Year Fall Breakfasts - October 4, 6, 11, 18 - 8:45 AM - 10:15 AM - BMC 305 - open to 1st Year students only

Seminar Series - Karthikeyani Chellappa - October 27 at 12 PM Barus & Holley 190 - All are welcome.



If you have something you want to highlight, please email kimberly_elber@brown.edu