Therapeutic Sciences Graduate Program



April 2024, Issue 7

TSGP News:

3rd Gear

The TSGP "3rd Year Student Showcase" featured inspiring presentations by the 3rd Year PhD students in the Therapeutic Sciences Graduate Program.

The students presented their research at Brown's Laboratories for Molecular Medicine on Ship Street in downtown Providence. Following the talks, TSGP students, faculty and staff enjoyed a "Spring Fling" reception at the Narragansett Brewery.



Left to Right: Carmelissa Norbrun,
Jasmine Clark and José Mercado Ortiz



Congratulations!

Jacqueline Real successfully defended her Biotechnology Masters Thesis on March 28th, 2024. Congratulations, Jackie!

Jackie gave a presentation entitled

"The role of cytomegalovirus in glioblastoma tumor microenvironment and angiogenesis."

Her advisor, Dr. Sean Lawler, leads the Brain Cancer Therapy Lab in the

Department of Pathology and Laboratory Medicine at Brown.



Yannick Johnson

Advisor: Dr. Jonathan Kurtis



"Anti-PfGBP130 antibodies inhibit P.falciparum growth in vitro."

Monday, April 8, 2024 11:00 AM

Via ZOOM

https://us05web.zoom.us/j/82351641597?pwd=kag2l8f6XYnKxe1xfix4D1wuT3uGrj.1





11:00am - 11:25am

Olivya Caballero Advisor: Dr. Alan Morrison

"Aging impairs VEGF-A mRNA stability and consequent inflammatory Arteriogenesis."



12:30pm - 12:55pm

Douglas Dubosky Advisor: Dr. Mamiko Yajima

"Metabolic activity regulates embryonic patterning in the sea urchin."

Wednesday, April 10, 2024

Thomas Watson Center for Information Technology (CIT), Room 165

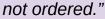




12 NOON: Yifei Li

Advisor: Dr. Alexander Fleischman

"Patient characteristics of normal pressure hydrocephalus cases with indeterminate surgical decisions: high-volume tap test ordered vs.





12:30 PM: Alex von Eckartsberg

Advisor: Dr. Justin Fallon

"Characterizing behavioral phenotypes using computer vision-based

monitoring in an Alzheimer's Disease mouse model."



1:00 PM: Chengjie Xi

Advisor: Dr. Justin Fallon

"Localization of MuSK expression in the neurogenic niches of the

adult brain."



1:30 PM: Nazrin Rustamzade

Advisor: Dr. Jonathan Kurtis

"Efficacy of a novel anti-malarial against multi-drug resistant P.

falciparum."



2:00 PM: Yu Liu

Advisor: Dr. Eric Morrow

"Molecular mechanisms underlying cellular growth defects in

glutamate pyruvate transaminase 2 (GPT2) deficiency."



2:30 PM: Sophia Chaviari

Advisor: Dr. Jessica Plavicki

"Identifying the molecular mechanisms mediating aryl hydrocarbon

receptor induced developmental toxicity."

Thursday, April 11, 2024

The Swearer Center, 2 Stimson Avenue, Room 111





11:30 AM: Olivia Perez
Advisor: Dr. Barry Lester
"Using musical theory for the analysis of newborn pain and non-pain cries."



12:30 PM: Yashvi Deokule
Advisor: Dr. Edith Mathiowitz
"Induction of mesphase in polyethylene glycol and polyethylene oxide."



1:00 PM: Bishouy Sharoubim
Advisor: Dr. Edith Mathiowitz
"Process analytical technologies for small-scale cell culture: ARACUS amino acid analyzer."



1:30 PM: Jiaying Yan
Advisor: Dr. Edith Mathiowitz
"Evaluating diffusion and mucus penetrating efficiency of bio-coated polymeric nanoparticles."

Friday, April 12, 2024

Thomas Watson Center for Information Technology (CIT), Room 165



Christian Muñoz

Advisor: Dr. John Marshall



"Syn3 and D-Syn3 attenuate brain infarct volume loss after hypoxic-ischemic brain injury in neonatal rats."

Monday, April 15, 2024 1:00 PM

Via Zoom

https://brown.zoom.us/j/93320694033



Sheryn Bentata

Advisor: Dr. Amanda Jamieson



"Monitoring cell activity in human airway epithelium during viral lung infection through in vitro models."

Wednesday, April 17, 2024 2:00 PM

Via ZOOM

https://brown.zoom.us/j/85691876170





1:00 PM: Jiayu "Jessi" Hu Advisor: Dr. Jun Feng "Spike proteins on cardiac microvascular endothelial dysfunction."



2:00 PM: Alyce Brady
Advisor: Dr. Shuping Tong
"Impact of mutations in the preS2 region of Hepatitis B genome on surface antigen secretion."



2:30 PM: Katlyn Reynolds
Advisor: Dr. Mamiko Yajima
"Functional contributions of p53 and MYC in
Strongylocentrotus Purpuratus Embryogenesis."

Thursday, April 18, 2024

Stephen Robert '62 Campus Center (Room 201), Petteruti Lounge





11:00 AM: Yiwen Yang
Advisor: Dr. Suzanne de la Monte
"Alcohol-related neurodegeneration: mechanistic links to impaired metabolic function in white matter and potential strategies for non-invasive detection and monitoring with disease progression or treatment."



12 NOON: Megan Fife
Advisor: Dr. Suzanne de la Monte
"Novel Therapeutic Targeting and Potential Non-Invasive Liquid Biopsy
Diagnostic Detection and Monitoring of Aspartyl-Asparaginyl-b-Hydroxylase in
Chondrosarcoma."



12:30 PM: Xinran "Evelyn" QiAdvisor: Dr. Daniel Spade
"Investigating spermatozoa RNAs in clinical male infertility and as potential biomarkers."



1:00 PM: Sei Hyun Choi Advisor: Dr. Justin Fallon "Characterization of MuSK transcripts and proteins in neural stem cells."

Friday, April 19, 2024

Sidney Frank Hall for Life Sciences, Marcuvitz Auditorium (Room 220)



Yanxi Li

Advisor: Dr. Michelle Dawson



"Biomechanics of paclitaxel-induced polyploid giant cancer cells in murine breast cancer."

Friday, April 19, 2024 11:30 AM

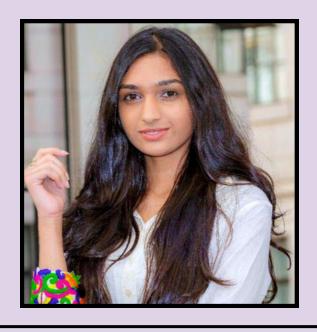
Via ZOOM

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Palli Kheni

Advisor: Dr. EceUzun



"Development of machine learning-based and deep learning models to predict breast cancer recurrence data."

Tuesday, April 23, 2024 12 NOON

Via ZOOM

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12:30 pm - 12:55pm

Priyanka Bedi

Advisor: Dr. Amanda Jamieson

"The role of Neuropeptide 'Substance P' in the neuroimmunomodulation of wound healing."



1:30pm - 1:55pm

Yutong "Linda" Xia Advisor: Dr. Wafik El-Deiry

"The anti-tumor efficacy of combining Ceralasertib, an oral ATR kinase inhibitor, with imipridones, in prostate cancer treatment."

Tuesday, April 23, 2024

Sciences Library (Room 720), 201 Thayer Street, Providence, R.I.





12:00noon - 12:25pm

Madeleine Marx

Advisor: Dr. Jeffrey Morgan

"Visualization and Quantification of Collagen Damage in a 3D Microtissue Model of the Human Extracellular Matrix."



1:30pm - 1:55pm

Hongyu Ma

Advisor: Dr. Jeffrey Bailey

"Single-cell RNA-seq characterization of Burkitts' Lymphoma cell lines.""

Wednesday, April 24, 2024

Thomas Watson Center for Information Technology (CIT), Room 165



Peiling He

Advisor: Dr. Richard Bennett



"Examining how changes to the WOR1 Locus or the WOR1 Protein impact the white-opaque switch in Candida albicans.""

Thursday, April 25th, 2024

9:00 AM - 9:25 AM

Sciences Library, Room 520 201 Thayer Street, Providence, R.I.



Jilliana Zarzycki

Advisor: Dr. Elizabeth Chen



"Investigating
COVID-19
vaccine adherence
in high need
adolescent population
in Rhode Island."

Friday, April 26, 2024 1:00 PM

Via ZOOM

https://us05web.zoom.us/j/89823374331?pwd=8Lg23gq9olM9FpKVLJOoStXufMu72S.

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Rudra Trivedi

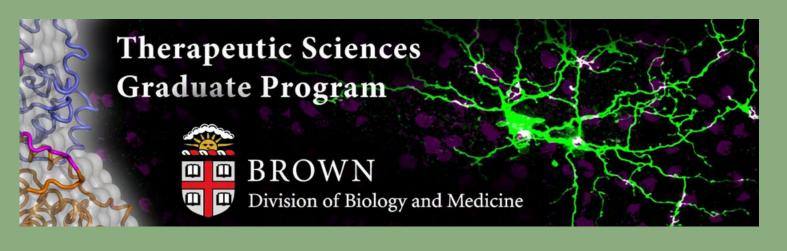
Advisor: Dr. Edith Mathiowitz



"Ultra-Long releasing pre exposure prophylaxis (PrEP) implants of dolutegravir for HIV prevention."

Monday, April 29, 2024 12 NOON

Biomedical Center Room 305 85 Brown Street, Providence, R.I.



PhD Thesis Defense Presentation

Rachel Carley, PharmD, RPh

Advisor: Dr. Alan Morrison

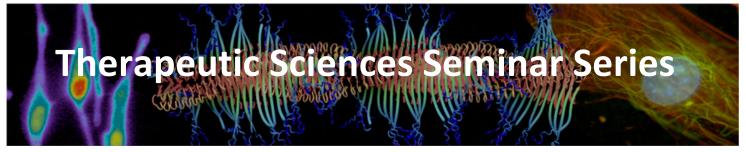


"Rac1 and NF-κB
Signaling Regulates
Macrophage IL-1β
Expression to Influence
Atherosclerotic
Calcification and SARSCoV-2 Infection."

Thursday, April 25th, 2024 11:00 AM EST

Location: Biomedical Center, BMC-291

Via Zoom: https://brown.zoom.us/j/93541102544



Presents

Alexandra Naba, PhD

Associate Professor, Department of Physiology and Biophysics,
University of Illinois, Chicago
Affiliate Member, Richard and Loan Hill Department of
Biomedical Engineering, University of Illinois, Chicago
Member, University of Illinois Cancer Center

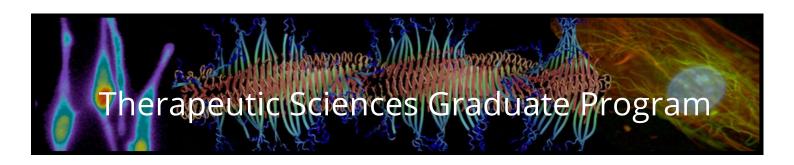
Hosted by: Dr. Jeffrey Morgan



"The Matrisome Project:
From proteomic
exploration
of the extracellular
matrix to translational
applications."

Friday, April 26, 2024 12:00 PM EST

MarcuvitzAuditorium, Room 220 185 Meeting Street



"TSGP Annual Retreat ~ May 3rd, 2024"



Welcome Breakfast & Faculty Talks

9:30am - 10:30am: Breakfast, Introductions and Program Highlights 10:40am - 11:40am: Faculty Talks



Box Lunches Outdoors

11:45am - 1:00pm: Lunch Outdoors with Yard Games and Time to explore the Audubon Nature Center Property



Keynote Speaker: Dr. Elizabeth Jonas

1:00pm - 2:00pm: Keynote Address given by Elizabeth Jonas, MD, Professor of Medicine & Professor of Neuroscience, Yale University

"Mitochondria in the synapse: Neurodevelopment and neurodegeneration."



Dr. Bene Carniero: Clincal Trial Rotations

2:00pm: Discussion of Clinical Trial Rotations by Benedito Carneiro, MD, Director of Clinical Research, Director of Cancer Drug Development, and Associate Director of Division of Hematology/Oncology, Lifespan **2:30pm - 3:30pm:** Small Group "Breakout Sessions"



"Posters & Pints"

3:30pm - 4:30pm: TSGP Student Poster Session on the Patio (outdoors if weather permits) * Snacks and Beer & Seltzers will be served



Friday, May 3rd, 2024 9:00 AM - 5:00 PM EST

Audubon Nature Center and Aquarium 1401 Hope Street, Bristol, R.I. 02809



Citywide ways to engage in Earth Day in April of 2024:

ccchttps://www.providenceri. gov/earthday/

If you have something you wish to highlight in the newsletter, please email ruth mattson@brown.edu