

UWM's Graduate Organization of Biological Sciences Presents: UWM Biological Sciences Research Symposium

Program/Information Booklet

April 7th, 2023



BIOLOGICAL SCIENCES

Image by: Alyssa Kline

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Acknowledgements

GOBS would like to thank all the volunteers that helped with the symposium including (but not limited to) faculty, staff, students, and post-docs who helped to judge presentations and set-up/clean-up the event. We thank the Biological Sciences Staff and UWM Event Services for helping plan this event. We would also like to thank BioScience LLC for their generous donation to fund the symposium. Lastly, we thank all of the presenters and attendees for making this symposium possible!

We'd also like to offer our congratulations and thanks to Alyssa Kline for designing the Bio Sci t-shirt and to Olivia Fallahee, Hailey Beaty, and Nicole Wicker for designing our Bio Sci stickers this year!



Schedule of Events

Time	Event
9:00 am	Check-in opens – can check-in at the Union Ballroom East (not mandatory before attending talks)
9:30 am	Doors open for talks – Lapham 101, speakers upload their talks (via USB) and talk judges gather materials
9:45-11:00 am	Oral presentations – Lapham 101
11:30-12:30 pm	Lunch break - lunch available in Union Ballroom East
1:00-3:00 pm	Poster presentations - Union Ballroom East. Can set up posters anytime 9 am-12 pm. Poster judges gather materials at 1pm.
3:00 pm	Clean-up/tear-down (help is appreciated!)
4:00 pm	Colloquium – Lapham 160

Schedule of Talks
(Location: Lapham 101)

Presenters: bring your finalized PowerPoint to Lapham 101 at 9:30 am day of presentation. Talk length is scheduled for a 12-minute presentation and 3 minutes of Q&A.

Judges: pick up judging materials in Lapham 101 at 9:30 am.

Moderator: Claudia Rodriguez

Time	Talk information
9:45-10:00 am	Exploring the nuances of variation in female treefrog mate choice using personality traits Olivia Feagles* & Gerlinde Höbel
10:00-10:15 am	A novel protein is implicated in <i>C. elegans</i> FGFR signal transduction Claudia Rodriguez*, Nicole Wicker, Te-wen Lo, Cindy Voisine, Michael Stern, Claire de la Cova
10:15-10:30 am	Lsm Protein Scd6 Represses HAC1 mRNA Translation Cing Kiim*, Jagadeesh Uppala, Anish Chakraborty, Nicholas Reiter, David Frick, Madhusudan Dey
10:30-10:45 am	A novel level of eukaryotic AMPK regulation Vidhya Basak*, Marianna Orlova, Sergei Kuchin

Poster Presentations
Location: Union Ballroom East

Poster set-up: anytime between 9am-12pm, make sure to check-in first

Judges: pick up judging materials at 1pm at symposium check-in table

Poster number	Poster information
1	Using real-time biosensor to explore kinase activity in a migratory cell Nicole Wicker*, Claudia Rodriguez, Claire de la Cova
2	Using <i>C. elegans</i> to model the impact of mutations from Noonan Syndrome Fatemeh Cheraghi*, Robert Townley, Kennedy Stacy, Alexia Castillo, Claire C. de la Cova
3	Characterization of root hair development in <i>fer-4</i> mutants of <i>Arabidopsis thaliana</i> Amoo Ayosunkanmi* & Heather Owen
4	Understanding Tissue Stress During Brain Morphogenesis Gabriella C. Voit*, Elizabeth J. Falat, Emma Xiong, Jennifer H. Gutzman
5	Zebrafish as a model system to understand the role of the myh genes in development Laura A Rolfs*, Elizabeth J Falat, Jennifer H Gutzman
6	The Bipartite Element within HAC1 mRNA modulates its stability and translational efficiency in <i>Saccharomyces cerevisiae</i> Anish Chakraborty*, Kimberly Mayer, Leena Sathe, Abhijit Chakraborty, Madhusudhan Dey
7	Secondary Axon Projections caused by Mitochondrial Mutations in <i>C. elegans</i> James R Woods* & Christopher C Quinn
8	The Role of SHN-1 in Axon Termination Hailey G. Davis* & Christopher C. Quinn
9	Panic in their voices: Changes in social environment alter call strategies in Eastern Gray Treefrogs Alexander Sweet*, Olivia Feagles, Gerlinde Höbel
10	Monandrous Females Regain Sexual Receptivity and Produce Fewer Egg Masses After Short Copulations Ariel Noriega Rodriguez*, Lauren A Cirino, Sage DeLong, Camille Desjonqueres, Rafael L. Rodriguez
11	Genomic regions responsible for Chronic Wasting Disease in cervids Chandika R G* & Emily Latch
12	A self-boosting signal type in an insect? Gianna Noffsinger*, Ignacio Escalante, Jerald R. Kellner, Camille Desjonquères, Lauren A. Cirino, Ariel A. Noriega Rodriguez, Sage A. DeLong, and Rafael L. Rodriguez

- 13 A genetic approach to species identification for Wisconsin's three
Microtus species
Madeline Opie* & Emily Latch
- 14 Monitoring kelp forests in decline: Development of novel eDNA
techniques to quantify densities of kelp seed-banks in healthy and
disturbed habitats
Natalie Plant*, Luran Liggan, Filipe Alberto
- 15 Animal Personality: Evidence of boldness-shyness in Gray Treefrogs
Olivia Fallahee*, Olivia Feagles, Gerlinde Höbel
- 16 How do vibrational signals differ when red milkweed beetles interact
during contests and copulation?
Sage DeLong*, Ariel Rodriguez, Camille Desjonquères, Rafael
Rodriguez, and Lauren Cirino
- 17 Females in a duetting insect use spontaneous signals to re-establish
communication with males, but not against wind noise
Sara Seidita* & Rafael Rodriguez
- 18 Black and Yellow Aposematic Fellow: Evidence for selective
aposematism and unpalatability in the Nearctic Gray Tree Frog (*Hyla
versicolor*)
Joseph S. Cannizzaro IV* & Gerlinde Hobel
- 19 Synthesis and Biological Evaluation of Novel Benzodiazepines for the
Oral Treatment of Asthma
Sarah Swartwout*, Daniel Webb, Michelle Meyer, Anika Tylek, Leggy
Arnold
- 20 Investigating the Role of Hse1's SRC Homology 3 (SH3) Domain In the
Activation of UPR Regulation Protein Ire1
Alexa Oviedo*, Kimberly Mayer, Jagadeesh K Uppala, Madhusudan
Dey
- 21 Phage Resistance in Mucoïd Bacteria
Chloe Skinner*, Harleen Tawatia, Dr. Alita R. Burmeister
- 22 Novel Link between Ire1 and MAPK Slt2 Pathways via Transcription
Factor Rlm1 in Yeast *Saccharomyces cerevisiae*
Kimberly Mayer*, Jagadeesh K Uppala, Cing Kiim, Madhusudan Dey
- 23 A putative polysaccharide biosynthesis operon is involved in the
nodulation of *Mimosa pudica* by *Paraburkholderia phymatum*
Shashini U. Welmillage*, Gyaneshwar Prasad
- 24 Analysis of Nod factor mutants of *Rhizobia* IRBG-74 and effect on
nodule formation in *Sesbania cannabina*
Sonali Shedge* & Gyaneshwar Prasad

List of Participants

Cell and Molecular Biology

Amoo Ayosunkanmi – poster #3
Anish Chakraborty – poster #6
Fatima Cheraghi – poster #2
Hailey Davis – poster #8
Laura Rolfs – poster #5
Gabriella Voit – poster #4
Nicole Wicker – poster #1
James Woods – poster #7
Claudia Rodriguez – talk

Ecology, Evolution, and Behavior

Joseph S. Cannizzaro – poster #18
Sage DeLong – poster #16
Olivia Fallahee – poster #15
Olivia Feagles – talk
Gianna Noffsinger – poster #12
Madeline Opie – poster #13
Natalie Plant – poster #14
Chandika Rani Ganesh Babu – poster #11
Ariel Rodriguez – poster #10
Sara Seidita – poster #17
Alexander Sweet – poster #9

Medicinal Chemistry

Sarah Swartwout – poster #19

Microbiology

Vidhya Basak – talk
Sonali Chandrakant Shedge – poster #24
Cing Kiim – talk
Kimberly Mayer – poster #22
Alexa Oviedo – poster #20
Chloe Skinner – poster #21
Shashini Uthpala Welmillage – poster #23

Judges

Mark McBride – talks
Lauren Cirino – talks
Gerlinde Höbel – grad EEB posters
Sonia Bardy – grad micro posters
Alita Burmeister – grad micro posters
Tamjid Chowdhury – grad CMB posters
Peter Dunn – grad EEB posters
Alyssa Kline – undergrad micro posters
Drew Little – undergrad EEB posters
Chong Lor – undergrad micro posters
Heather Owen – grad CMB posters
Kane Stratman – undergrad EEB posters

GOBS Board

Drew Little

Madi Rittinger

Claudia Rodriguez

Kane Stratman