2019 *Astrangia* Research Workshop Program Schedule At A Glance

Wednesday, May 29

8:00 - 9:00	Breakfast/Check-In
9:00 - 9:30	Welcome/Introductions
9:30 - 10:15	Introduction and Inspiration: History of Astrangia Science
10:15 – 11:15	Research Session I – Community Ecology
11:15 - 12:15	Poster Session
12:15 – 1:30	Lunch (Upper Dining Commons, RWU)
1:30 – 3:30	Research Session II – Genetic and Genomic Insights
3:30 - 3:45	Coffee Break
3:45 - 5:15	Research Session III - Microbiome
5:30 - 6:00	RWU Oyster Sampling (RWU Docks)
6:00 - 7:00	Dinner (Upper Dining Commons, RWU)
7:30 – 10:00	Sunset Porch Party (Portsmouth, RI)

Thursday, May 30

8:00 - 9:00	Breakfast
9:00 - 10:45	Research Session IV – Resilience Ecology
10:45 - 11:30	Research Session V: Astrangia Spawning & Early Life Cycle
11:30 – 1:00	Working Lunch & Small Breakout Groups: Education and
	Outreach
1:00 - 2:00	Education/Outreach Consensus Discussion
2:00 - 4:00	Looking to the Future: Questions Remaining
4:00	Workshop Wrap-Up

Astrangia Research Workshop Program

Wednesday, May 29

8:00 – 9:00	Breakfast/Check-In
9:00 – 9:30	Welcome/Introductions
9:30 – 10:15	Introduction and Inspiration: Sean Grace - "History of Astrangia Science"
10:15 – 11:15	Research Session I: Community Ecology Moderator: Koty Sharp Gabriella DiPreta - "Increasing prey availability with a cost-effective light rack inhibits quiescence and dormancy in the temperate scleractinian coral Astrangia poculata" (lightning talk)
	Sean Grace - "Shallow subtidal community changes in Southern New England; future challenges for temperate corals"
	Sean Grace - "Current Projects in the Grace Lab" (lightning talk)
	Caroline Fleming - "Building a dynamic energy budget for <i>A. poculata</i> : modeling and parameterizing facultative symbioses"
11:15 - 12:15	Poster Session
	Gabriella DiPreta - "Successional state of benthic communities in temperate coral dominated habitats in Rhode Island"
	Sean Grace - "Arbacia punctulata aquaculture, a possible control for the rise of turf macroalgae"
	Tyler Harman - "Symbiosis and immunology of the Northern Star Coral
	from future climate change impacts"
	Whitney Leach - "The impacts of wavelength on gene expression and behavior in the sea anemone Nematostella vectensis"
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	Whitney Leach - "The impacts of wavelength on gene expression and behavior in the sea anemone <i>Nematostella vectensis</i> " Wolfgang Trumbauer - "Preliminary analysis of tissue heavy metal

1:30 – 3:30 Research Session II: Genetic and Genomic Insights

Moderator: Sean Grace

Kate Stankiewicz - "A strange genome: assembly and annotation of the Astrangia poculata genome"

Hanny Rivera - "What does it take to stay together? Uncovering symbiosis gene networks in a facultatively symbiotic coral"

Anna Gauthier - "Using Astrangia poculata as a model for novel lipid A challenges: exploring hypotheses of conserved response" (lightning talk)

Todd LaJeunesse - "The *Astrangia–Breviolum* mutualism: a potential case study in processes of local adaptation and speciation in eukaryotic microbes"

Maureen McEnery - "The role of cyclic AMP (cAMP) in coral cell-signaling pathways: in silico identification of cAMP discriminators, transducers, and amplifiers"

Remi Ketchum - "Population genetics and outlier analysis in a sea urchin from the world's warmest reefs"

Hannah Aichelman - "Outlier loci drive population structure of *Astrangia* poculata across the Mid-Atlantic United States"

3:30 - 3:45 **Coffee Break**

3:45 - 5:15 Research Session III: Microbiome

Moderator: Randi Rotjan

Adam Reitzel - "Diversity and Responses of the Sea Anemone Nematostella vectensis to a Diverse Microbial Community"

Allison Kerwin - "Changes in bacterial gene expression during *Cassiopeia xamachana* strobilation"

Nate Zaccardi - "Investigation of antibacterial activity in the *Astrangia* poculata microbiome"

Rachel Howard - "Investigating the plastisphere: the role of plasticassociated microbes on microbead ingestion by the coral *Astrangia* poculata"

Allie Klein - "Localizing key bacterial members of the *Astrangia poculata* microbiome and monitoring changes in prokaryotic diversity in response to thermal stress" (*lightning talk*)

5:30 - 6:00	RWU Oyster Sampling (RWU Docks)
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Thursday, May 30

8:00 – 9:00 9:00 – 10:45	Breakfast Research Session IV: Resilience Ecology Moderator: Sean Grace Daniel Wuitchik "Genomic basis of convergent phenotypic responses to
	thermal extremes in a temperate coral" Andrea Chan "An algal symbiont (<i>Breviolum psygmophilum</i>) responds more strongly to chronic high temperatures than its facultatively symbiotic coral host (<i>Astrangia poculata</i>)"
	Hannah Reich "Iron availability dictates the response of coral symbionts to thermal stress"
	Randi Rotjan "Autotrophy and heterotrophy tradeoffs in the foraging activity of a facultatively symbiotic coral, <i>Astrangia poculata</i> "
	Laura DiRoberts "Nitrogen cycling in the temperate northern star coral, Astrangia poculata: distinguishing autotrophic from heterotrophic nutrient contributions"
	Isabela Trumble "Testing polyp interconnectivity in Astrangia poculata temperate corals" (lightning talk)
10:45 - 11:30	Research Session V: Astrangia Spawning & Early Life Cycle Moderator: Randi Rotjan Koty Sharp - "Astrangia poculata spawning and settlement: a progress report"
	Justin McAlister - "Marine invertebrate life histories: biological models for changing ocean environments"
11:30 – 1:00	Working Lunch & Breakout Groups: Education and Outreach/Media
	Outreach/Media: Randi Rotjan & Caroline Fleming, session leaders Education/Curriculum: Rachel Wright & Nicola Kriefall, session leaders
1:00 - 2:00	Education & Outreach Consensus Discussion Moderator: Koty Sharp
2:00 – 4:00	Looking to the Future: Questions Remaining Moderators: Sean Grace, Randi Rotjan, Koty Sharp
4:00	Workshop Wrap-Up