

# Cnidofest 2022 Draft Program

## Wednesday, September 7

6:30 - 7:30 pm                      Registration and Check-in

7:30 - 7:45 pm                      Welcome

7:45 - 9:00 pm                      **Session 1: Genomics**

Jack Cazet: "New *Hydra* genomes reveal conserved principles of hydrozoan transcriptional regulation"

Sally Chang: "Insights from the draft genome assembly for the hydrozoan *Podocoryna carnea*: Just the tip of the tentacle"

Tetsuo Kon: "Genomic divergence and dynamics of the three stem cell lineages in *Hydra*"

Karly Higgins-Poling: "Assessing evolutionary history of symbiotic Scyphozoa: A case study, *Mastigias papua* in the marine lakes of Palau, and beyond"

9:00 pm                                Know About Each Other in the Bar

## Thursday, September 8

8:00 - 8:45 am                      Light Continental Breakfast

8:45 - 10:00 am                      **Session 2: Evolution**

Sophia Barreira: "Deducing the Common Ancestor of the Nucleolar Transcription Factor and its Potential Role in Regeneration"

Anna Klompen: "Division of (toxic) labor: Venom distribution and utility across distinct polyp types of *Hydractinia symbiolongicarpus*"

Alonso Delgado: "Sea anemone Insulin-like peptides, For all time. Always."

Darrin Schultz: "Ancient gene linkages show that ctenophores are sister to other animals"

10:00 - 10:30 am                      Coffee Break

10:30 - 12:00 pm                      **Session 3: Development I**

Diego Calderon, Invited Technology Speaker: "The continuum of *Drosophila* embryonic development at single cell resolution"

Layla Al-Shaer: "Population density modulates asexual reproduction & gene expression in *Nematostella vectensis*"

Charisious Tsiairis: The transcription factor Zic4 prevents epithelial transdifferentiation in *Hydra*"

Uli Technau: "The developmental origin and relationship of the neuroglandular lineage in the sea anemone *Nematostella vectensis*"

12:00 - 1:15 pm                      Box Lunch

1:15 - 2:30 pm                      **Session 4: Neurobiology**

Abby Primack: "Characterizing neurogenesis pathways in *Hydra vulgaris*"

Minghe Cheng: "Investigating the role of NvashA during *Nematostella* neurogenesis"

Wataru Yamamoto: "Studying neuronal mechanisms of somersaulting in *Hydra vulgaris*"

Kelly Kim: "Phototaxis is a state-dependent complex behavior in *Hydra vulgaris*"

2:30 - 3:00 pm                      Coffee Break

3:00 - 4:15 pm                      **Session 5: Evo Devo I**

Gaku Kumano: "Branching morphogenesis of *Cladonema* medusa tentacles"

Yareli Alvarez: "Inducible organs of aggression in the plumose sea anemone, *Metridium senile*, as a model for the evolution of cell type plasticity"

Julia Barnyk: "Cnidarian-specific neuropeptide RPamide decelerates the timing of life cycle transition in the sea anemone *Nematostella vectensis*"

Alison Cole: "A cell-type atlas from a scyphozoan jellyfish *Aurelia* sp. provides insights into cell-type diversity and reveals conserved cell specification mechanisms across the Cnidaria"

4:15 - 4:45 pm	Coffee Break
4:45 - 5:15 pm	Lightning Talks
5:30 - 7:30 pm	Poster Session
7:30 - 9:30 pm	Dinner with Cash Bar
9:30 pm	Know About Each Other in the Bar

### **Friday, September 9**

8:00 - 8:45 am	Light Continental Breakfast
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8:45 - 10:00 am	<b>Session 6: Physiology I</b>
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Manuel Michaca: "Investigating the role of Alr1, Afadin, Syntenin, and PICK1 in the fusion response of *Hydractinia symbiolongicarpus*"

Samuel Bedgood: "Algal symbiont presence and not photosynthetic contribution affects the development of *Exaiptasia diaphana* asexual offspring"

Cory Berger: "How does *Nematostella*'s circadian clock behave under conflicting light and temperature cycles?"

Olivier Cochet-Escartin: "Mechanical characterization of regenerating *Hydra vulgaris* tissue pieces"

10:00 - 10:30 am	Coffee Break
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10:30 - 12:00 pm	<b>Session 7: Physiology II</b>
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James Letts, Invited Technology Speaker: Title TBA

Kathrin Garschall: "Nutritional regulation of growth in the sea anemone  
*Nematostella vectensis*"

Lys Isma: "Saved by the Cell: Immune cells and Stony Coral Tissue Loss  
Disease (SCTLD)"

Yehu Moran: "The cnidarian antiviral immune system reflects ancestral  
complexity"

12:00 - 1:15 pm                      Box Lunch

1:15 - 2:30 pm                      **Session 8: Cell Biology I**

Ahmet Karabulut: "The architecture and operating mechanism of a cnidarian  
stinging organelle"

Anush Kosakyan: "Parasitic strategies in Cnidaria from omics perspective. Case  
study myxozoan parasite *Sphaerospora molnari*"

Bruno Gideon Bergheim: "Extracellular matrix dynamics during the life history of  
*Nematostella vectensis*"

Bert Hobmayer: "A *Hydra* Claudin cell-cell contact protein is involved in epithelial  
tissue dynamics, regeneration, and osmoregulation"

2:30 - 3:00 pm                      Coffee Break

3:00 - 4:15 pm                      **Session 9: Cell Biology II**

Marion Lechable: "Evolutionary dynamics of the stem cell factor Myc and  
functional conservation of the unique *Hydra* Myc3 protein"

Maria Valadez Ingersoll: "Interactions between symbiosis, innate immunity, and  
nutrition" in cnidarians

Helen Horkan: "*Hydractinia* Genome stability"

Tsuyoshi Momose: "Origin of metazoan and origin of jellyfish; genetic and  
cell-biology approaches."

4:15 - 4:45 pm                      Coffee Break

4:45 - 5:15 pm                      Lightning Talks

5:30 - 7:30 pm	Poster Session
7:30 - 9:30 pm	Dinner with Cash Bar
9:30 pm	Know About Each Other in the Bar

**Saturday, September 10**

8:00 - 8:45 am	Light Continental Breakfast
8:45 - 10:00 am	<b>Keynote: Mansi Srivastava</b>

10:00 - 10:30 am	Coffee Break
10:30 - 12:00 pm	<b>Session 10: Development II</b>

Paula Miramon-Puertolas: "A post-larval stem-like cell population contributes to germinal and somatic lineages in the sea anemone *Nematostella vectensis*"

Fredrik Hugosson: "Functional characterization of canonical Wnt receptors and ligands required for oral-aboral patterning in *Nematostella vectensis*"

Keith Sabin: "An FGF activity gradient signals through a cnidarian paired-like homeodomain gene to direct apical sensory organ development in *Nematostella vectensis*"

Kerstin Ohler: "FGF signaling in the freshwater polyp *Hydra*"

Masha Brooun: "The Hippo pathway and *Hydra* morphogenesis."

12:00 - 1:15 pm	Box Lunch
1:15 - 2:30 pm	<b>Session 11: Evo Devo II</b>

Lucas Leclère: "Genomic consequences of the loss of the polyp stage in the scyphozoan *Pelagia*"

Maciej Manko: "Origins of individuality in colonial siphonophores"

Patrick Steinmetz: "Yolk formation in a sea anemone provides insights into the evolution of animal nutrient transport"

3:00 - 4:45 pm **Session 12: Regeneration**

Miguel Salinas-Saavedra: "Senescence-induced cellular reprogramming drives whole-body regeneration"

10:00 pm Know About Each Other in the Bar