

Program overview

Sunday July 5th

16:00 - 19:00	Registration desk open
18:00 -	Welcome reception and informal BBQ

Monday July 6th

08:00 - 08:50	Registration desk open
08:50 - 09:00	Welcome address
09:00 - 10:30	Session 1 (1 x 30', 2 x 20', 10 poster pitches)
10:30 - 11:00	Coffee break
11:00 - 12:30	Session 2, (3 x 20', 15 poster pitches)
12:30 - 13:30	Lunch
13:30 - 14:40	Session 3 (1 x 30', 1 x 20', 10 poster pitches)
15:00 - 16:00	Keynote lecture (open event)
16:00 - 18:00	Poster session 1
18:00 - 19:00	Dinner
19:00 - 20:00	Evening lecture

Tuesday July 7th

08:30 - 09:50	Work shop neuron identification
10:00 - 10:30	Session 4 (1 x 30')
10:30 - 11:00	Coffee break
11:00 - 12:40	Session 5 (5 x 20')
12:40 - 13:40	Lunch
13:40 - 15:50	Session 6 (1 x 30', 5 x 20')
15:50 - 16:30	PI meeting
16:30 - 18:30	Poster session 2
18:30 -	Conference dinner, afterwards party

Program

Monday July 6th

08:50 - 09:00 Welcome address (**Ralf J. Sommer, Adrian Streit**)

09:00 - 10:30 Session 1, Chair: **Ziduan Han**

09:00 - 09:30 L1 **Ray L. Hong:** Three on three:
A Terminal Selector Trio Specifies Three Neuronal Types

09:30 - 09:50 S1 **Radhika Sharma:** Formylglycine and an alternative
maturation system regulate nematode sulfatases

09:50 - 10:10 S2 **Fumie Hiramatsu:** Identification of a kin-recognition
receptor in *Pristionchus pacificus*

10:10 - 10:30 P1 - P10 Poster pitches

P1 **Berke Güner:** A new hermaphroditic *Pristionchus* species
with obligate matricidal hatching

P2 **Cátia Igreja:** Sulfation regulates fertility
in *Pristionchus pacificus*

P3 **Chantal Naumann:** Dopaminergic modulation of predatory
and feeding behavior in *Pristionchus pacificus*

P4 **Chih-Yen Kuo:** A nematode-trapping fungus orchestrates
polarity cues, septins, and NOX signaling for trap formation

P5 **Christian Rödelisperger:** Ten reasons why gene
annotation sucks

P6 **Corrin Hays:** Uncovering a Novel Gene Involved in
Executing Mouth-form Plasticity

P7 **Erik J. Ragsdale:** Discrete plastic morphologies arise from
a graded transcriptional axis

P8 **Gina Broitman-Maduro:** Optimization of Transgenesis by
Microinjection in *Pristionchus pacificus*

P9 **Han-Wen Chang:** Cuticular collagens and cuticle
glycosylation shape cross-kingdom predator–prey
interactions between nematodes and nematode-trapping
fungi

P10 **Hao Wu:** Exploring Transgenerational Epigenetic
Inheritance in *Pristionchus pacificus* through Quantitative
Trait Locus Analysis

10:30 - 11:00 Coffee break

11:00 - 12:30 Session 2, Chair: **Serena Ding**

- 11:00 - 11:20 S3 **Audrey Brown:** Broad characterization of the histone deacetylase (HDAC) gene family in *Pristionchus pacificus*
- 11:20 - 11:40 S4 **Merve Gül Turan:** Neuropeptide Repertoire for *Pristionchus pacificus* (*Ppa*)
- 11:40 - 12:00 S5 **Linxuan Li:** A unique cysteine-type protein domain regulates cuticular extracellular matrix assembly in nematodes
- 12:00 - 12:30 P11 - P25 Poster pitches
- P11 **Hillel T. Schwartz:** Evolutionary origins of entomopathogenic nematodes
- P12 **Hung-Che Lin:** A two-step biological glue mechanism underlies nematode capture by the nematode-trapping fungus *Arthrobotrys oligospora*
- P13 **Hyemin Min:** Caffeine extends lifespan by enhancing lysosomal lipolysis in *Caenorhabditis elegans*
- P14 **Jun Liu:** Translating molecular and imaging tools from *C. elegans* to the *P. pacificus* communities
- P15 **Keigo Niimi:** A conserved insulin-like peptide contributes to predatory behavior in *Pristionchus pacificus*
- P16 **Lei Zhang:** Identification of *C. elegans*-derived molecules involved in fungal trap induction
- P17 **Leonard Böger:** Latent state dynamics of aggressive behavior in predatory nematodes
- P18 **Lewis A. Cockram:** One worm two minds: Developmental plasticity tunes predatory behavioural state space in *Pristionchus pacificus*
- P19 **Liang-Yu Hou:** Comparative Effectoromics of Nematophagous Fungi Reveals Lineage-Specific Predatory Repertoires
- P20 **Maia-Maria Lupas:** *In vitro* approaches for studying *Pristionchus pacificus* cytosolic sulfotransferases
- P21 **Marianne Roca:** From avoidance to attack: Rewiring sensory systems in nematodes
- P22 **Neha Agyal:** Lineage-specific expansion and functional divergence of *Ppa-tid-1/sut-2*-type genes mediate transgenerational inheritance in *Pristionchus pacificus*
- P23 **Penghieng Theam:** Evolution of sulfated lipids in *Pristionchus* nematodes
- P24 **Pietro Vaninetti:** Biosynthesis of small sulfated lipids requires functionally diverse cytosolic sulfotransferases in *Pristionchus pacificus*

- P25 **Precious Shynne D. Leonoras:** Neuropharmacological potential of *Ganoderma lucidum*: multimodal evidence from *in vitro*, *in vivo*, and *in silico* approaches on *Caenorhabditis elegans*

12:30 - 13:30 Lunch

13:30 - 14:40 Session 3, Chair: **Nicholas Levis**

- 13:30 - 14:00 L2 **Oliver Hobert:** Evolution of neuronal gene regulatory programs in two divergent nematode species, *C. elegans* and *P. pacificus*
- 14:00 - 14:20 S6 **Hyunsoo Yim:** Comparative mapping of the *P. pacificus* nervous system uncovers divergent composition and asymmetric neuronal identities
- 14:20 - 14:40 P26 - P35 Poster pitches
- P26 **Shiela Pearl Quiobe:** Role and impact of microRNA degradation on transgenerational inheritance of a predatory trait
- P27 **Sung-Ya Lin:** Rapid evolution of *Caenorhabditis* chemosensory receptors in response to fungal predators
- P28 **Tugba Sehitogullari:** Molecular Readers of Chromatin: Characterization of Chromodomain Genes in *Pristionchus pacificus*
- P29 **Tzu-Hsiang Lin:** A survival-reproduction trade-off underlies the evolution of predator avoidance in *Caenorhabditis* nematodes
- P30 **Xiaoxiao Yin:** *Rhabditophanes* spp. as a free-living model for *Strongyloides stercoralis*
- P31 **Yinan Wang:** Comparative single-cell transcriptomics reveals variable degrees of cell-type conservation between two distantly related nematodes
- P32 **Yun-Zhen Chou:** Nox2 and tyrosinase-mediated crosslinking are essential for predatory adhesion by the nematode-trapping fungus *Arthrobotrys oligospora*
- P33 **Yuuki Ishita:** Artificial reconstruction of the ancestral karyotype leads to reproductive isolation in *Pristionchus pacificus*
- P34 **Zhen Li:** Genome dynamics and gene repertoire variation in the nematode-trapping fungus *Arthrobotrys oligospora*
- P35 **Zhen Wang:** Identification of genes regulating dauer formation in *Pristionchus pacificus*

15:00 - 16:00 Keynote lecture (open event), Chair: **Ralf J. Sommer**

15:00 - 16:00 K1 **Paul W. Sternberg:** Lessons from a galaxy of worms

16:00 - 18:00 Poster session 1 (all posters)

Not pitched posters

P36 **Ata Kalirad:** On the applicability of LLM-based estimates of fitness to evolutionary investigations concerning *Pristionchus pacificus*

P37 **Radhika Sharma:** Proteomic insights into the germline specific translational repressor Nanos 3 in *Pristionchus pacificus* (*Ppa*)

P38 **Ray L. Hong:** Conserved Hormone, Divergent Tissues: *daf-9* Regulation of Dauer Entry in *P. pacificus*

P39 **Merve Gül Turan:** Neuropeptide Repertoire for *Pristionchus pacificus* (*Ppa*)

P40 **Audrey Brown:** Broad characterization of the histone deacetylase (HDAC) gene family in *Pristionchus pacificus*

P41 **Linxuan Li:** A unique cysteine-type protein domain regulates cuticular extracellular matrix assembly in nematodes

P42 **Taufiq Khan:** Context-Dependent Sexual Signalling in *Pristionchus* Nematodes

18:00 - 19:00 Dinner

19:00 - 20:00 Evening lecture, Chair: **Paul W. Sternberg**

19:00 - 20:00 E1 **Yen-Ping Hsueh:** Carnivorous Fungi: Mechanisms and Evolution of Nematode Predation

Tuesday July 7th

08:30 - 09:50 Work shop neuron identification, organizers: **Ray L. Hong** and **Oliver Hobert**

10:00 - 10:30 Session 4, Chair: **Ray L. Hong**

10:00 - 10:30 L3 **Kohta Yoshida:** Bizarre consequences of chromosome evolution in *Pristionchus* nematodes

10:30 - 11:00 Coffee break

11:00 - 12:40 Session 5, Chair: **Monika Scholz**

11:00 - 11:20 S7 **Anqi Wang:** Mechanism of ascaroside pheromones modulated novel interaction between *Pristionchus pacificus* and microbes

11:20 - 11:40 S8 **Wenya Xu:** Discovery and biosynthetic investigation of trimeric pheromones from *Pristionchus* nematodes

11:40 - 12:00 S9 **Nicholas A. Levis:** Evaluating how intrasexual competition shapes polyphenic development

12:00 - 12:20 S10 **Taufiq Khan:** Context-Dependent Sexual Signalling in *Pristionchus* Nematodes

12:20 - 12:40 S11 **Narcís Font-Massot:** Collective Behavior in Heterogeneous *P. pacificus* Groups

12:40 - 13:40 Lunch

13:40 - 15:50 Session 6, Chair: **Chuanfu Dong**

13:40 - 14:10 L4 **Morris F. Maduro:** Specification of Gut in *Pristionchus pacificus* by a redundant network of GATA factors

14:10 - 14:30 S12 **Wen-Sui Lo:** Mechanisms of endogenous dsRNA processing and its regulatory functions in *Pristionchus pacificus*

14:30 - 14:50 S13 **Qi Ma:** Identification of regulatory pathways for horizontally acquired cellulases in *Pristionchus pacificus*

14:50 - 15:10 S14 **Desiree Goetting:** Structural and chemical properties of the cuticle encode kin identity in *Pristionchus pacificus*

15:10 - 15:30 S15 **Luis Alvarez:** From Feeding to Predation: Neural Circuit Evolution in Nematodes

15:30 - 15:50 S16 **Misako Okumura:** Developmental light exposure biases mouth-form polyphenism by altering redox state in *Pristionchus pacificus*

15:50 - 16:30 PI meeting

16:30 - 18:30 Poster session 2 (all posters)

18:30 - 20:30 Conference dinner

20:30 - 21:30 Final discussion (topics: funding and training opportunities, future *Pristionchus* meetings)

21:30 - Concluding remarks (**Ralf J. Sommer**) and Party