



III LATIN AMERICAN
WORM MEETING

PROGRAM

DAY 1 MARCH 15th

11:00-15:00 REGISTRATION

*15:00-15:15 Introduction to the meeting and the keynote speaker by **Andrea Calixto***

*15:15-16:15 **KEYNOTE Piali Sengupta**, Sensational sensory cilia: How cilia shape neuronal responses*

Session 1. Chair *Gustavo Salinas*

*16:15-16:45 **Javier Apfeld**, Strategic diversity by worms in hydrogen-peroxide survival*

*16:45-17:00 **Micaela Godoy**, Coupling between transcription and alternative splicing in *C. elegans**

*17:00-17:15 **Sebastián Giunti**, Ketogenic modulation of GABAergic signaling in *C. elegans**

*17:15-17:30 **Andrea Layedra**, A microfluidic device for simple quantification of chemotaxis with *Caenorhabditis elegans* in neurotoxicological studies*

17:30-17:50 COFFEE BREAK

Session 2. Chair *Arantza Barrios*

*17:50-18:20 **Judith Yanowitz**, Wombs to Wombs: Lessons in Germline Aging*

*18:20-18:35 **Enrique Morales-Oliva**, Germ cell fusion and apoptosis is induced by the phosphatidylserine biosynthesis pathway*

*18:35-18:50 **Rosina Comas-Ghierra**, An incomplete kynurenine pathway supports rhodoquinone but not de novo NAD⁺ biosynthesis in parasitic worms*

18:50-20:30 WELCOME COCKTAIL

DAY 2 MARCH 16th

Session 3. Chair [María Fernanda Hornos](#)

09:00-09:30 **Monica Colaiacovo**, Regulation of DSB distribution along chromosomes during *C. elegans* meiosis

09:30-09:45 **Julián Valdés**, Behavioral changes induced by starvation and hyperglycemia in *C. elegans*

09:45-10:00 **Albertina Scattolini**, Evaluation of MRSA virulence of structure-based drug against the lipoic acid salvage pathway using *Caenorhabditis elegans*

10:00-10:30 **Christian Braendle**, Natural variation in *C. elegans* egg-laying behaviour modulates an intergenerational fitness trade-off

10:30-10:50 COFFEE BREAK

Session 4. Chair [Marie-Anne Felix](#)

10:50-11:20 **Natalie Pujol**, How does the skin sense and react to damage?

11:20-11:35 **Bernabé Battista**, A novel conditional unsaturated fatty acids (UFAs) deficient strain in *Caenorhabditis elegans*

11:35-11:50 **Tania Veuthey**, Neural modulation of systemic stress response requires the insulin like-peptide INS-3

11:50-12:20 **Erik Andersen**, Natural variation in anthelmintic resistance

12:20-12:35 **Marcela Brocco**, Neuronal membrane glycoprotein (NGMP-1) is required for stress response in *Caenorhabditis elegans*

12:35-12:50 **Alejandro Vázquez-Rifo**, Genetic and molecular features of *P. aeruginosa*-induced ribosome cleavage

12:50-13:00 Introduction of the Mentor-Mentee Match Program by Wormboard ([Andrea Calixto](#))

13:00-14:30 LUNCH

Lunch with Mentors. Previous matches have been made between mentee and mentor (led by [Alejandro Vazquez](#) and [Andrea Cuentas-Condori](#))

Session 5. Chair [Andrea Cuentas-Condori](#)

14:30-15:30 **WORKSHOP** The *C. elegans* Neuronal Gene Expression Map & Network (CeNGEN).
Alexis Weinreb and **Alec Barrett** (Hammarlund lab, Yale)

15:30-16:00 **Cathy Savage**, *C. elegans* BMP Signaling Regulates Whole Organism Homeostasis

16:00-16:15 **José Antonio Carracedo González**, The paradox of mitochondrial dysfunction and aging: a Boolean approach

16:15-16:30 **Laura Romanelli**, Rhodoquinone as a key molecule for sulfide, cyanide and pathogen response in *C. elegans*

16:30-16:50 COFFEE BREAK

Session 6. Chair [Daiana Silva Avila](#)

16:50-17:20 **Benjamin Podbilewicz**, Sexual dimorphism of dendritic sculpting in *C. elegans* and its effect on male mating

17:20-17:35 **Florencia Guastaferrri**, Exploring age related effects on the lipid metabolism of a *Caenorhabditis elegans* model of Parkinson's disease

17:35-17:50 **Ornella Turani**, Unravelling the physiological role and molecular function of *Caenorhabditis elegans* betaine-sensitive nicotinic receptors

18:00-20:00 POSTER SESSION I / wine and cheese.

DAY 3 MARCH 17th

Session 7. Chair *Diego de Mendoza*

09:00-09:30 **Ann Rougvie**, *The C. elegans Genetics Center*

09:30-09:45 **Romina D'Almeida**, *Neuro-immune responses and transgenerational epigenetic inheritance of *Caenorhabditis elegans* against *Candida albicans* infection*

09:45-10:00 **Paloma Harcha**, *The assembly of bacteria living in natural environments shape neuronal integrity and behavioral outputs in *C. elegans**

10:00-10:30 **Alejandro Aballay**, *Use of *Caenorhabditis elegans* as a model to study the neural-gut axis*

10:30-10:50 COFFEE BREAK

Session 8. Chair *Carolyn Phillips*

10:50-11:35 WORKSHOP **Julián Cerón**, *Applications of CRISPR-Cas technologies in *C. elegans**

11:35-11:50 **Eugenia Carla Kuhn**, *Monthly ecotoxicological assessment of medium Uruguay river - Brazil using *Caenorhabditis elegans* as a biomonitor*

11:50-12:05 **Rosa Navarro**, *The RNA binding protein GLA-3 is important to protect germ cells from stress*

12:10-13:00 NETWORKING Speed dates. Chairs ***Daniel Hochbaum and Rosa Navarro***

13:00-14:30 LUNCH

14:30-15:30 DISCUSSION WOMEN IN SCIENCE. Presented by a panel of young and established investigators with the participation of the audience

Session 9. Chair *Eleni Gourgou*

15:30-16:00 **Carolyn Phillips**, *HRDE-2 regulates small RNA specificity for the nuclear Argonaute protein HRDE-1*

16:00-16:15 **Roberto Carlos Martínez Padilla**, *Mathematical modeling of microRNA-transcription factor networks in *Caenorhabditis elegans* exposed to high-glucose diets*

16:15-16:45 **Luisa Cochella**, *Quantitative control of morphogenesis by a deeply conserved miRNA family*

16:45-17:15 COFFEE BREAK

17:15-18:00 Virtual lecture **Daniel Colon Ramos**, *Structural and developmental principles of neuropil assembly in *C. elegans** (Introduction by ***Diego Rayes***)

18:00- 20:00 POSTER SESSION II / wine and cheese.

DAY 4 MARCH 18th

Session 10. Chair *Marcela Brocco*

09:00-10:40 **IBRO SYMPOSIUM** *Topics in neuroscience: from neurodevelopment to neurodegeneration*

- 09:00-09:30 **Eleni Gourgou**, *Multisensory learning in engineered microenvironments*
- 09:30-09:45 **Diego Becerra**, *Can we know what it is like to be a worm? Integrated information and high order interdependences in *C. elegans*'s sleep-wake dynamics*
- 09:45-10:00 **María Gabriela Blanco**, *Behavioral State Transitions in *Caenorhabditis elegans**
- 10:00-10:30 **Arantza Barrios**, *Switching odour preferences through experience*

10:30-10:50 **COFFEE BREAK**

Session 11. Chair *Judith Yanowitz*

10:50-11:05 **Margaret A. Titus** *MyTH-FERM Myosins in the *C. elegans* Intestine*

11:05- 12:00 *Flash Talks from posters.*

Free afternoon

20:00 **SOCIAL EVENT PARTY**

DAY 5 MARCH 19th

Session 12. Chair *Luisa Cochella*

09:00-09:30 **Marie-Anne Félix**, *Natural variation in C. elegans: vulva development and epigenetic heredity*

09:30-09:45 **Francisco Silva**, *Born to be a wild worm: differential circadian rhythms between domesticated N2 and wild Caenorhabditis elegans isolates*

09:45-10:00 **Andrea Cuentas-Condori**, *Synapse organization and function of dual-transmitter neurons.*

10:00-10:15 **Cecilia Vranych**, *Cannabinoids activate the insulin pathway to modulate mobilization of cholesterol in Caenorhabditis elegans*

10:15-10:35 **COFFEE BREAK**

10:35-11:35 **CLOSING LECTURE David Gems**, *What is aging? Lessons from C. elegans.*
Introduction by **Rosa Navarro**

11:40-12:00 **POSTER PRIZES** (Led by **María José de Rosa**) **AND CLOSING REMARKS**
(**Organization of the Meeting**)