SWM 2022
Friday October 21st

08:30 – 9:00 Registration and poster placement
9:00 – 9:30 Welcome, meeting opening

Session 1 (Gene Expression and Development). Chaired by Peter Askjaer.

9:30– 10:15 La Rioja talk 1. Andrew Fire.
Opportunistic RNAs and Acquisitive Genomes.

10:15 – 11:30 Short talks (10 min. talk + 5 min. questions).

1.1.- Deviations from temporal scaling support a stage-specific regulation for *C. elegans* postembryonic development.
Alejandro Mata-Cabana, Francisco Javier Romero-Expósito, Mirjam Geibel, Francine Amaral Piubeli, Martha Merrow and María Olmedo.

1.2.- GLD-1 and APC/C FZR-1 are involved in the somatic conversion of germ cells.
David Puerta, Sara Rivera-Martin, Adrián Fragoso and José Pérez-Martín.

1.3.- APC/C FZR-1 is controlled at several levels in the germline.
David Puerta, Sara Rivera-Martin, Adrián Fragoso and José Pérez-Martín.

1.4.- Integrator complex links DNA damage and gene expression response.
Cristina Romero Aranda, Eva Gómez Orte, Victor Escrich, Begoña Ezcurra, Juan Cabello.

1.5.- The use of *C. elegans* in circular economy a step toward the industrialization of an animal Model.
Carlos López-Viso, Hodaifa-Meri Gassan and Manuel J Muñoz.

11:30 – 12:00 coffee break

Session 2 (Neuro-session I). Chaired by Tatiana García-Muse.

12:00 – 12:45 La Rioja talk 2. Nuria Flames.
Mechanisms of Neuronal diversification and evolution.

12:45 – 14:00 Short talks (10 min. talk + 5 min. questions).

2.1.- Role of mef-2 transcription factor in neurodegeneration of dopaminergic neurons in *C.elegans*.
Erick Sousa, Nuria Flames.

2.2.- PDF-1 modulation of aversion and reward during associative learning.
Laura Molina-García, Susana Colinas-Fischer, Blanca García-Minaur-Ortiz, Sergio Benavides-La Concha, Emma Clark, Lucy Lin, Rosie Truman, Arantza Barrios.

2.3.- Forkhead transcription factor FKH-8 regulates sensory cilia gene expression in *C. elegans*.
Rebeca Brocal-Ruiz, Ainara Esteve Serrano, Carlos Mora-Martínez, Juan J. Tena, Peter Swoboda, Nuria Flames.

2.4.- Sexually dimorphic regulation of quiescent neural progenitor asymmetric divisions
Carla Lloret-Fernández, Michele Sammut, Sophie PG Gilbert, Milou HM van der Lans, David J Elliott, RJ Poole.

2.5.- Molecular mechanisms underlying neuron evolution in Caenorhabditis species.
Adrián Tarazona Sánchez, Antonio Jordan, Nuria Flames Bonilla

14:00 – 15:30 Lunch

Session 3 (Neuro II and Metabolism). Chaired by Rafael Vázquez-Manrique.

15:30 – 16:15 La Rioja talk 3. María Olmedo.
Non-canonical DAF-2/IR signalling regulates transient larval arrest in *C.elegans*.

16:15 – 17:30 Short talks (10 min. talk + 5 min. questions).

3.1.- Scent of a worm.
Romain Bulteau, Marcos Perez, Mehrnaz Shamalnasab, Marie-Alice Minassian, Ben Lehner, Mirko Francesconi.

3.2.- Basic translational machinery controls neuronal terminal differentiation.
Andrea Millán-Trejo, Pilar Casanova and Nuria Flames.

3.3.- The Effect of a High-Glucose Exposure in *C. elegans* is Counteracted by a Synbiotic Combination of Pediococcus acidilactici CECT9879 (pA1c), Chromium Picolinate and Oat Beta-Glucans by Affecting the Insulin Signaling Pathway (IIS).
Deyan Yavorov-Dayliev; Fermín I. Milagro; Josune Ayo; María Oneca; Paula Aranaz.

3.4.- Lipoteichoic acid from Bifidobacterium animalis subsp.lactis BPL1: a novel postbiotic that reduces fat deposition via IGF-1 pathway.
Ferran Balaguer, María Enrique, Silvia Llopis, Marta Barrena, Verónica Navarro, Beatriz Álvarez, Empar Chenoll, Daniel Ramón, Marta Tortajada and Patricia Martorell.

3.5.- Role of BRC-1 and BRD-1 phosphorylation after DNA damage.
Nuria Fernández-Fernández, Lola P. Camino, Mariola Chacón, Tatiana García-Muse.

17:30 – 19:00 coffee break and poster session

19:00 - 19:15 Cellrad Benchtop X-Ray Irradiator demo. Jesús García (Technasa).

Session 4 (Metabolism II). Chaired by Manuel Muñoz.

19:15– 20:00 La Rioja talk 4. Antonio Miranda-Vizuete.
Cystine reduction and transsulfuration pathways suppress the embryonic lethal phenotype of *C.elegans* glutathione reductase *gsr-1* mutants.

20:00 Bus transfer to Bodegas Franco Españolas.
Guided tour - Gala dinner.

Saturday October 22nd

Session 5 (Metabolism III and tools). Chaired by Julián Cerón.

10:00 – 10:45 La Rioja talk 5. Christian Froekjaer-Jensen.
Tools for engineering the *C. elegans* genome.

10:45 – 12:00 Short talks (10 min. talk + 5 min. questions).

5.1.- Heterochromatin Protein 1 controls gene expression and longevity upon prohibitin depletion.
Patricia De La Cruz Ruiz, Hayat Heluani Gahete, María de los Ángeles Ortega De La Torre, María Jesús Rodríguez Palero, Cristina Ayuso García, Shinya Ohta, Peter Askjaer and Marta Artal-Sanz.

5.2.- ssu-1 in aging and sulfated steroid hormone levels.
MM Pérez-Jiménez, R Alba-López, MJ Muñoz-Ruiz.

5.3.- Effect of modulation of calcium homeostasis in several Alzheimer's disease models in *C.elegans*.
Elena Caldero-Escudero, Pilar Álvarez-Illera, Silvia Romero-Sanz, Jaime Santo-Domingo, Rosalba I Fonteriz, Mayte Montero and Javier Álvarez

5.4.- A method to obtain transcription factor binding profiles in a cell-type-specific manner.
Rafael Alis and Nuria Flames.

5.5.- *C. elegans* as an invivo arrhythmia model - Evaluation of Polypyrrole nanoparticles.
Sumithra Yasaswini Srinivasan, Nuria Benseny Cases, Dmytro Kukhtar, Julián Cerón, Anna

12:00 – 12:30 coffee break

Session 6 (Disease Models). Chaired by Marta Artal.

12:30 – 13:45 Short talks (10 min. talk + 5 min. questions).

6.1.- A calreticulin mutant *C. elegans* model naturally lacking JAK2 and MPL orthologs mimics some of the molecular features of Ph-negative myeloproliferative neoplasms and reveals unknown non-canonical effects of the mutant protein.
A Guijarro-Hernández, L Eder-Azanza, C Hurtado, D Navarro-Herrera, B Ezcurra, FJ Novo, J Cabello, JL Vizmanos.

6.2.- Effects of SERCA inhibition in a chemical model of Parkinson's disease in *C. elegans*.
Silvia Romero-Sanz, Elena Caldero-Escudero, Pilar Álvarez-Illera, Jaime Santo-Domingo, Rosalba I Fonteriz, Mayte Montero, and Javier Álvarez.

6.3.- *Caenorhabditis elegans* as a Nestor-Guillermo Progeria Syndrome Model.
Raquel Romero Bueno, Marta Rojas, Cristina Ayuso, Christian Riedel, Jordan D Ward and Peter Askjaer.

6.4.- A model for type III galactosemia and possible treatment.
P Lucas-Rodriguez, AM Brokate-Llanos, MJ Muñoz.

6.5.- Potential of epicatechin to reduce Alzheimer's disease progression based on its capacity to ameliorate amyloid β peptide (Aβ) and neurofibrillary tangles production.
Lidia Garzón-García, Begoña Ayuda-Durán, Celestino Santos-Buelga, Ana M. González-Paramás and Susana González-Manzano.

13:45 – 14:30 Meeting closure (sandwich and drink to go)