

PROGRAM

Thursday, 15 May 2014

10:00–12:45 *Registration*

12:45–13:00 **Janine Kirstein-Miles, Nikolaus Rajewsky, Baris Tursun**
Welcome to the Berlin C. elegans Meeting

Session I.

Gene Expression and Development - Chair: Luisa Cochella, IMP Vienna, Austria

- 13:00–13:20 *Long Talk 1: **Simone Prömel** (University of Leipzig, Germany)*
A novel signaling mechanism of the adhesion-GPCR latrophilin to mediate embryonic development in C. elegans
- 13:20–13:40 *Long Talk 2: **Esther Zanin** (Biozentrum LMU Munich, Germany)*
TPXL-1 mediates aster-based clearing of contractile ring proteins from the cell poles during cytokinesis
- 13:40–13:50 *Short Talk 1: **Thanh Vuong** (Institute of Molecular and Cellular Biology Illkirch, France)*
Use of laser nano-ablation to study mechanical properties of epidermal acto-myosin cortex during C. elegans embryo elongation
- 13:50–14:00 *Short Talk 2: **Anne-Cecile Reymann** (MPI-CBG Dresden, Germany)*
Cortical pattern formation induced by active mechanics facilitates cell shape changes in C. elegans.
- 14:00–14:10 *Short Talk 3: **Maria Begasse** (MPI-CBG Dresden, Germany)*
Survival at high temperature in Caenorhabditis requires adaptation of embryonic cell division
- 14:10–14:30 *Long Talk 3: **Monica Gotta** (CMU/PHYME, Genève, Switzerland)*
SPAT-1 coordinates the action of PLK-1 and CDK-1 to time mitotic entry in the embryo
- 14:30–14:40 *Short Talk 4: **Moritz Horn** (MPI for Biology of Ageing, Cologne, Germany)*
DRE-1/FBXO11 Dependent Degradation of BLMP-1/BLIMP-1 Governs C. elegans Developmental Timing and Maturation
- 14:40–14:50 *Short Talk 5: **Maria Olmedo** (LMU Munich, Germany)*
High throughput, automated monitoring of C. elegans developmental timing

Keynotes:	45 min + 15 min
Long talks:	15 min + 5 min
Short talks:	8 min + 2 min

14:50–15:30	<i>Coffee Break</i>
15:30–15:50	<i>Long Talk 4: Alex Hajnal (University of Zurich, Switzerland) Initiation of lumen formation during vulval development</i>
15:50–16:10	<i>Long Talk 5: Renaud Legouis (CNRS-CGM, Paris, France) Physiological roles of autophagy during development: Functional analysis of "ubiquitin-like" proteins</i>
16:10–16:30	<i>Long Talk 6: Nikolaus Rajewsky (MDC Berlin, Germany) RNA:protein interactions in <i>C. elegans</i></i>
16:30–16:50	<i>Long Talk 7: René Ketting (IMB Mainz, Germany) Biogenesis and function of 21U RNAs in <i>C. elegans</i></i>
16:50–17:00	<i>Short Talk 6: Peter Sarkies (Cancer Research, Gurdon Institute, United Kingdom) Evolution of small RNA pathways across the nematode phylum reveals the extraordinary diversity of transposon defence pathways in the absence of piRNAs.</i>
17:00–17:20	<i>Long Talk 8: Peter Meister (Institute of Cell Biology, University of Bern, Switzerland) Differential spatial and structural organisation of the X chromosome underlies dosage compensation in <i>C. elegans</i></i>
17:20–17:30	<i>Short Talk 7: Stéphanie Käser-Pébernard (University of Fribourg, Switzerland) LET-418/MI2 and SPR-5/LSD1 cooperatively prevent somatic reprogramming of <i>C. elegans</i> germline stem cells</i>
17:30–19:45	<i>Dinner break & Poster session I</i>
19:45–20:45	Keynote 1: Julie Ahringer , University of Cambridge, United Kingdom <i>Chromatin regulation and the landscape of RNA polymerase II transcription in <i>C. elegans</i></i>
20:45	<i>Drinks (continued Poster Session I)</i>

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Friday, 16 May 2014

Session II.

Ageing, Stress and Evolution - Chair: Thorsten Hoppe, University of Cologne, Germany

- 09:00–09:10 **Short Talk 8: Mark Leaver** (MPI-CBG Dresden, Germany)
On the molecular mechanism behind the adaptation of nematodes to survive at high temperatures
- 09:10–09:30 **Long Talk 9: Della David** (DZNE Tübingen, Germany)
Abrogating age-dependent protein aggregation in C. elegans
- 09:30–09:40 **Short Talk 9: Mark Sterken** (Wageningen University, The Netherlands)
Genome wide mapping of stress-response and ageing pathway regulators
- 09:40–09:50 **Short Talk 10: Liesbet Temmerman** (KU Leuven, Belgium)
Metformin promotes lifespan through mitohormesis
- 09:50–10:10 **Long Talk 10: Michael Ristow** (ETH Zurich, Switzerland)
Interventions and genetic modifications extending C. elegans lifespan converge at retrograde mitochondrial ROS signaling
- 10:10–10:40 *Coffee Break*
- 10:40–11:40 **Keynote 2: Adam Antebi**, MPI-Ageing, Cologne, Germany
Nuclear receptor regulation of C. elegans life history and longevity
- 11:40–12:00 **Long Talk 11: Jonathan Ewbank** (Centre d'Immunologie de Marseille-Luminy, France)
Insights into the early steps in the interaction between C. elegans and Drechmeria coniospora, a natural fungal pathogen
- 12:00–14:00 *Lunch break & Poster session II*

Session III.

Neurobiology - Chair: Richard Poole, University College London, United Kingdom

- 14:00–15:00 **Keynote 3: Paul Sternberg**, Caltech, Pasadena, USA
Every neuron counts
- 15:00–15:20 **Long Talk 12: Nuria Flames** (Instituto Biomedicina de Valencia, Spain)
C.elegans serotonergic neuron subtypes are regulated by different terminal selector codes
- 15:20–15:40 **Long Talk 13: Alexander van der Linden** (University of Nevada, Reno, USA)
Feedback Modulation of Chemoreceptor Gene Expression Mediated by Feeding State and NPR-1
- 15:40–16:10 *Coffee Break*

- 16:10–16:30 *Long Talk 14: **Alon Zaslaver** (The Hebrew University of Jerusalem, Israel)*
*Hierarchical sparse coding in the sensory system of *C. elegans**
- 16:30–16:50 *Long Talk 15: **Jean-Louis Bessereau** (University of Lyon, France)*
*Deconstructing the synapse using *C. elegans* genetics*
- 16:50–17:00 *Short Talk 11: **Kelly Howell** (Columbia University NY, USA)*
Spatiotemporal control of synapse formation mediated by the single-immunoglobulin domain protein OIG-1
- 17:00–17:20 *Long Talk 16: **Henrik Bringmann** (MPI for Biophysical Chemistry, Göttingen, Germany)*
How we get enough sleep: Homeostasis of sleep-active neurons
- 17:20–17:40 *Long Talk 17: **Manuel Zimmer** (IMP Vienna, Austria)*
*Brain wide attractor dynamics interact with sensory circuits to encode high-level locomotor state in *C. elegans**
- 17:40–18:00 *Long Talk 18: **Mark Alkema** (UMass Medical School, Worcester, USA)*
*Opto-genetic and -physiological dissection of the *C. elegans* escape response reveals new mechanisms in the orchestration of distinct sub-motorprograms*
- 18:00–19:30 *Dinner Break, Drinks (continued Poster Session II)*
- 19:30–20:30 **WORKSHOP: CRISPR and Mos1 Technology**
Mike Boxem (Utrecht University, NL) and
Christian Frøkjær-Jensen (University of Utah, USA)
- 20:30 *Drinks (continued Poster Session II)*

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Saturday, 17 May 2014

Session IV.

Cell Biology (Chair: Roger Pocock, BRIC - University of Copenhagen, Denmark)

- 09:00–09:20 *Long Talk 19: **Elia Di Schiavi** (IBBR, CNR, Naples, Italy)
Cellular and molecular mechanisms of smn-1-mediated neuron-specific degeneration*
- 09:20–09:30 *Short Talk 12: **Archana Nagarajan** (University of Stavanger, Norway)
Progressive degeneration of dopaminergic neurons through a Transient Receptor Potential (TRP)-channel mediated cell death*
- 09:30–09:50 *Long Talk 20: **Christian Neri** (Institute of Biology Paris-Seine IBPS, France)
Network-based approaches for biomedical intelligence in neurodegenerative disease: rationale for and value of including C. elegans data*
- 09:50–10:10 *Long Talk 21: **Ralf Baumeister** (University of Freiburg, Germany)
Extrinsic and intrinsic modulators of non-cellautonomous insulin signaling to the germline*
- 10:10–10:30 *Long Talk 22: **Christian Pohl** (Goethe University Frankfurt, BMLS, Germany)
Coupling of Rotational Cortical Flow, Asymmetric Midbody Positioning, and Spindle Rotation Mediates Dorsoventral Axis Formation in C. elegans*
- 10:30–10:50 *Coffee Break*
- 10:50–11:50 **Keynote 4: Fabio Piano**, New York University NYU, USA / Abu Dhabi, UAE
Title to be announced
- 11:50–12:10 *Long Talk 23: **Nathan Goehring** (London Research Institute, United Kingdom)
Mechanochemical interplay during PAR polarity establishment*
- 12:10–12:20 *Short Talk 13: **Mentink Remco** (Hubrecht Institute, The Netherlands)
Cell intrinsic modulation of Wnt signaling controls neuroblast migration in C. elegans.*
- 12:20–12:30 *Short Talk 14: **Tamara Mikeladze-Dvali** (LMU Biozentrum Munich, Germany)
C. elegans CED-3 caspase is required for centrosomal asymmetry in a cell lineage that generates an apoptotic death*
- 12:30–12:40 *Short Talk 15: **Juan Miguel Escobar-Restrepo** (University of Zurich, Switzerland)
In vivo receptor localization and expression screen identifies a novel mechanism of LET-23 regulation through Ezrin/Radixin/Moesin proteins*
- 12:40–13:00 *closing remarks and discussion on re-initiating an official EWM, if yes its format (e.g., topic, rotation of location, organizing / selection committee,...)*
- 13:00 *Farewell Lunch*