

# 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 *Iatrophilin* 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*

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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	<b>Long Talk 4: Alex Hajnal</b> (University of Zurich, Switzerland) <i>Initiation of lumen formation during vulval development</i>
15:50–16:10	<b>Long Talk 5: Renaud Legouis</b> (CNRS-CGM, Paris, France) <i>Physiological roles of autophagy during development: Functional analysis of “ubiquitin-like” proteins</i>
16:10–16:30	<b>Long Talk 6: Nikolaus Rajewsky</b> (MDC Berlin, Germany) <i>RNA:protein interactions in <i>C. elegans</i></i>
16:30–16:50	<b>Long Talk 7: René Ketting</b> (IMB Mainz, Germany) <i>Biogenesis and function of 21U RNAs in <i>C. elegans</i></i>
16:50–17:00	<b>Short Talk 6: Peter Sarkies</b> (Cancer Research, Gurdon Institute, United Kingdom) <i>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	<b>Long Talk 8: Peter Meister</b> (Institute of Cell Biology, University of Bern, Switzerland) <i>Differential spatial and structural organisation of the X chromosome underlies dosage compensation in <i>C. elegans</i></i>
17:20–17:30	<b>Short Talk 7: Stéphanie Käser-Pébernard</b> (University of Fribourg, Switzerland) <i>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 &amp; Poster session I</i>
19:45–20:45	<b>Keynote 1: Julie Ahringer</b> , 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	<b>Short Talk 8: Mark Leaver</b> (MPI-CBG Dresden, Germany) <i>On the molecular mechanism behind the adaptation of nematodes to survive at high temperatures</i>
09:10–09:30	<b>Long Talk 9: Della David</b> (DZNE Tübingen, Germany) <i>Abrogating age-dependent protein aggregation in C. elegans</i>
09:30–09:40	<b>Short Talk 9: Mark Sterken</b> (Wageningen University, The Netherlands) <i>Genome wide mapping of stress-response and ageing pathway regulators</i>
09:40–09:50	<b>Short Talk 10: Liesbet Temmerman</b> (KU Leuven, Belgium) <i>Metformin promotes lifespan through mitohormesis</i>
09:50–10:10	<b>Long Talk 10: Michael Ristow</b> (ETH Zurich, Switzerland) <i>Interventions and genetic modifications extending C. elegans lifespan converge at retrograde mitochondrial ROS signaling</i>
10:10–10:40	<b>Coffee Break</b>
10:40–11:40	<b>Keynote 2: Adam Antebi</b> , MPI-Ageing, Cologne, Germany <i>Nuclear receptor regulation of C. elegans life history and longevity</i>
11:40–12:00	<b>Long Talk 11: Jonathan Ewbank</b> (Centre d'Immunologie de Marseille-Luminy, France) <i>Insights into the early steps in the interaction between C. elegans and <i>Drechmeria coniospora</i>, a natural fungal pathogen</i>
12:00–14:00	<b>Lunch break &amp; Poster session II</b>

## Session III.

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

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

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

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**Saturday, 17 May 2014**

## Session IV.

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

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