



Program

Your Partner For Laboratory Services & Products

Offering a portfolio of services & products that share common technologies, laboratory processes, infrastructure & expertise.

Our Services Include:



Genomic Services

- Next-generation sequencing
 - Sanger sequencing
- Genotyping & gene expression
 - Bioinformatics



Diagnostics

- Oncology
- Cellular pathology
- Molecular diagnostics
- Non-invasive prenatal testing
- Infectious disease diagnostics



Analytical Testing

- Clinical trial support
- Outsourced stability storage
- Product & batch release
- Microbiology, chemistry & QP services

Our Products Include:



Stability & Bio Storage

- Custom-built environmental rooms & cabinets
- Over 1M litres of storage space
- Service & validation



Life Science Research Products

- Reagents
- Clones
- Molecular biology tools
- Antibodies
- Laboratory essentials



Clinical Products

- Blood banking, tissue banking & serology products
- Liquid-based cytology
- Sexually transmitted infection kits

Visit our website today sourcebioscience.com to find out more about our services & products.

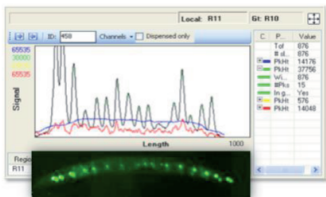


COPAS™ and BioSorter® **Large Object Flow Cytometers** **with Profiler™**

High Speed Analysis & Sorting of Worms

New: COPAS Flow Pilot™ - allows quantification of fluorescent phenotypes in large scale screens and rare event identification.

- Gentle sorting
- Dispensing to plates and wells
- Automated large scale multiwell screening with LP Sampler™



Profiler™ - graphically and numerically displays variations of optical density and fluorescence signals along the length of an object as it passes through the flow cell.

We welcome all participants to the European Worm Meeting (EWM) 2016.

The EWM 2016 is an initiative of the "Group of Elegans New Investigators in Europe" (GENiE) which is sponsored by EMBO and COST (European Cooperation in Science and Technology supported by the EU).

The EWM 2016 organizers

Baris Tursun (MDC) and Janine Kirstein (FMP)
would like to thank:

The Selection Committee

Peter Askjaer (*Andalusian Centre for Developmental Biology, ES*)

Ehud Cohen (*Hebrew University Jerusalem, IL*)

Maria Doitsidou (*University of Edinburgh, UK*)

Nate Goehring (*Francis Crick Institute, UK*)

Alexander Gottschalk (*Frankfurt University, DE*)

Sophie Jarriault (*IGBMC Strasbourg, FR*)

Peter Meister (*University of Bern, CH*)

Patricija van Oosten-Hawle (*University of Leeds, UK*)

Benjamin Podbilewicz (*Technion, Israel Institute of Technology, IL*)

Richard Poole (*University College London, UK*)

Christian Riedel (*Karolinska Institutet ICMC, SE*)

Andreia Castro (*Life & Health Sciences Research Institute ICVS, PT*)

The conference office and the local administration assistants at the MDC

Michaela Langer
Timkehet Teffera

Lien-Georgina Dettmann
Ines Krock

Our sponsors

The GENiE network



COST BM1408



Union Biometrica



Diagenode



Nikon



Pro-Curo Software Ltd



Source Biosciences



Zeiss



The conference logo was designed by *Martina Hajduskova* and the Catering is provided by *Kaffeehaus Madlen im Café Max*.

Wednesday, June 1st 2016

12:00- Registration

13:30-13:45 **WELCOME**
J. Kirstein, B. Tursun
Welcome to the
European Worm Meeting 2016

Session I. Gene Expression and Development (Chair: Peter Meister; Bern, CH)

13:45-14:45 **KEYNOTE: SUSAN GASSER**
(FMI Basel, CH)
Using worms to probe basic features of
higher eukaryotic chromosomes

14:45-15:00 **Peter Askjaer**
**(Andalusian Center for Developmental
Biology, ES)**
Tissue-specific analysis of nuclear organi-
zation through development of a novel FLP/
Frt-based toolkit for spatiotemporal control
of gene expression

15:00-15:15 **Michael Konstantinos Fasseas**
(Imperial College London, UK)
Probing the mechanisms of *C. elegans*
natural infection by oomycetes

- 15:15-15:30** **Valerie Robert**
(BMC CNRS Lyon, FR)
The SET-2/SET1 histone H3K4 methyl-transferase maintains genome stability in the *Caenorhabditis elegans* germline independently of the DNA damage response.
- 15:30-15:45** **Sophie P. R. Gilbert**
(University of Oxford, UK)
How the worm completes its skin
- 15:45-16:00** **Peter Gross**
(MPI-CBG, BIOTEC TU-Dresden, DE)
PAR polarity in *C. elegans* zygotes is established by a mechanochemical feedback-patterning motif
- 16:00-16:45** *Coffee Break*
- 16:45-17:00** **Oded Rechavi**
(Tel Aviv University, IL)
The Mechanism that Determines the Trans-generational Duration of RNAi in *C. elegans*
- 17:00-17:15** **Rob Jelier**
(KU Leuven NL, CRG & UPF Barcelona ES)
Robustness to mechanical deformation during *C. elegans* embryonic development

- 17:15-17:30** **Simone Kienle**
(FOM Institute AMOLF, Amsterdam, NL)
Quantitative Analysis of Stochastic Gene
Expression Dynamics during the AC/VU
Cell Fate Decision
- 17:30-17:45** **Ryuji Minasaki**
(Martin-Luther-University Halle-Wittenberg,
MPI-CBG, DE)
The combined activity of CPB-1CPEB and
GLD-3Bic-C opposes FBFPum to prevent
the sperm-to-oocyte switch in *C. elegans*
males
- 17:45-18:00** **Alicia Lardennois**
(Université Pierre et Marie Curie, IBPS,
CNRS, FR)
A spectrin/PAK/actin-capping network stabi-
lizes cell shapes in a morphogenetic ratchet
process during *C. elegans* elongation
- 18:00-18:15** **Alexandra Bezler**
(University of Lausanne, CH)
Sex- and tissue-specific regulation of
RNA interference
- 18:15-18:50** **Special Talk: Ralf Schnabel,**
(TU-Braunschweig, DE)
Cell-focussing, translation of the linear
information of DNA into order and form

- 18:50-18:58* **Posterblitz**
 S. Prömel, A. Ofenbauer,
 C. Alberti, R. Smith
- 19:00-20:00* *Dinner break & Drinks*
- 20:00-22:00* **Poster session I** (and Drinks continued)

Thursday, June 2nd 2016

WORKSHOP:

Mike Boxem (Utrecht University, NL)
& Mihail Sarov (MPI-CBG, Dresden, DE)

- 09:00-09:50* Genome engineering in *C. elegans*
 using CRISPR/Cas9

Emerging Application: Stephan Preibisch
(Berlin Institute for Medical Systems Biology, DE)

- 09:55-10:15* Light Sheet Microscopy using *C. elegans*
- 10:15-10:45* *Coffee Break*

Session II. Aging, Stress & Physiology

(Chair: Ehud Cohen, IL)

- 10:45-11:25 Nektarios Tavernarakis**
(University of Crete, Heraklion, GR)
Mitochondria, neurodegeneration
and ageing
- 11:25-11:40 Christian Riedel**
(Karolinska Institutet, Stockholm, SE)
DAF-16 and HLH-30 cooperate as combi-
natorial transcription factors to regulate
stress responses and aging in *C. elegans*
- 11:40-11:55 Thorsten Hoppe**
(CECAD, University of Cologne, DE)
The quality control ubiquitin ligase CHIP
couples proteostasis and ageing
through insulin receptor degradation
- 11:55-12:10 Michael Witting**
(TU Munich, DE)
WormBase goes Metabolomics –
Curation of metabolites present in the
nematode *Caenorhabditis elegans*
- 12:10-12:25 Andreas Ludewig**
(Boyce Thomson Institute, Ithaca, NY, USA)
Larval crowding accelerates *C. elegans*
development and reduces lifespan

- 12:25-14:30 *Lunch break & continued
Poster session I*
- 14:30-14:45 **Markus Schosserer**
(University of Natural Resources +
Life Sciences Vienna, AT)
Characterization of ribosomal RNA methylations modulating life- and healthspan of *Caenorhabditis elegans*
- 14:45-15:00 **Cornelia Habacher**
(FMI Basel, CH)
Ribonuclease-mediated control of body fat
- 15:00-15:15 **Lorna Moll**
(IMRIC, Jerusalem, IL)
SUMOylation has Key Roles in Coordinating Lifespan and Proteostasis in *C. elegans*
- 15:15-15:30 **Carmen Nussbaum-Krammer**
(DKFZ-ZMBH, Heidelberg, DE)
Discovering cellular pathways that regulate prion-like propagation of aggregation-prone proteins using *C. elegans*
- 15:30-15:45 **Karolina Chocian**
(University of Oxford, UK)
Dose-dependent functions for chromatin modifiers in regulating lifespan

- 15:45-16:00** **Thomas Wilhelm**
(IMB Mainz, DE)
Antagonistic Pleiotropy in the autophagic machinery modulates lifespan conversely over age in *C. elegans*
- 16:00-16:30** *Coffee Break*
- 16:30-16:45** **Stefan Taubert**
(University of British Columbia, CA)
Nuclear Receptor NHR-49 is a novel regulator of oxidative stress responses
- 16:45-17:00** **Kristin Arnsburg**
(FMP Berlin, DE)
The J-Protein Family of *C. elegans* – Expression analyses during Aging and Stress
- 17:00-17:15** **Sarah Offenburger**
(University of Dundee, UK)
A neuroligin-like gene and a transthyretin-like gene prevent dopaminergic neurodegeneration and protect from environmental stress
- 17:15-17:30** **Wenjing Qi**
(University of Freiburg, DE)
DAF-16 interacts with TGF- β /BMP signaling to promote germline tumor formation in *C. elegans*

- 17:30-17:45 Nicholas Burton**
(MIT, USA)
Maternal stress regulates a soma-to- germ-
line insulin-like signalling pathway to control
progeny development
- 17:45-18:00 Antoni Pla**
(Universidad Pablo de Olkavide, Sevilla, ES)
Serum- and Glucocorticoid-induced Kinase
1 (SGK-1) regulates mitochondrial quality
control mechanisms and autophagy to
modulate lifespan

Session III. Neurobiology - Part 1
(Chair: Richard Poole, UCL, UK)

- 18:00-18:40 Jean-Louis Besserau**
(University Claude Bernard, Lyon, FR)
Specification of synaptic identity: thinking
out of the box at the C. elegans neuromus-
cular junction.
- 18:40-18:48 Posterblitz**
S. Skore, N.A. Hashem,
J. Schwarz, A. Oranth
- 19:00-20:00 Dinner break & Drinks**
- 20:00-22:00 Poster session II**
(and Drinks continued)

Friday, June 3rd 2016

**Session III. Neurobiology - Part 2
(Chair: Alexander Gottschalk, DE)**

- 09:00-09:15 Annika Nichols**
(Research Institute of Molecular Pathology, Vienna, AT)
Sleep and wake in *C. elegans* are global brain states under tight control of arousal circuits.
- 09:15-09:30 Judith Besseling**
(MPI for Biophysical Chemistry, Göttingen, DE)
Sleep-active neuron specification and sleep induction require FLP-11 neuropeptides to systemically induce sleep
- 09:30-09:45 Tanja Drexel**
(Research Institute of Molecular Pathology, Vienna, AT)
Neuron-type specific miRNA represses two housekeeping genes to modulate an avoidance behavior
- 09:45-10:00 Elisabeth Fischer**
(Goethe University, Frankfurt, DE)
The pharynx as a system to model arrhythmia cardiac diseases using optogenetics

- 10:00-10:15** **Ivan Gallotta**
(Institute of Bioscience and Bio- Resources, CNR, Naples, IT)
Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy
- 10:15-10:30** **Wesley Hung**
(Mount Sinai Hospital, Toronto, ON, CA)
Neuroendocrine Regulation of Forward Locomotion in *Caenorhabditis elegans*
- 10:30-11:00** *Coffee Break*
- 11:00-11:15** **Esther Serrano-Saiz**
(Columbia University, New York, USA)
Sexually dimorphic scaling of synaptic neurotransmitter transport
- 11:15-11:30** **Päivi Koskinen**
(University of Turku, FI)
Pim-related kinases regulate olfactory, but not gustatory sensations in *C. elegans*
- 11:30-11:45** **Peter Leškovský**
(Vicomtech-IK4, San Sebastián, ES)
The *Si elegans* project • Studying *C. elegans* behaviour in a virtual environment

- 11:45-12:00** **Nathalie Vladis**
(University of Edinburgh, UK)
Neurons, Oxygen and Mighty Worms: A Novel Paradigm for the Exploration of Intrinsic Plasticity in *C. elegans*.
- 12:00-12:15** **Shigekazu Oda**
(MRC Laboratory of Molecular Biology, Cambridge, UK)
Modulation of neural information by neuroglobin alters the preference of *Caenorhabditis elegans* for oxygen concentrations
- 12:15-14:30** *Lunch break & continued*
Poster session II

Session IV: Cell Biology, Evolution and Nematology (Chair: Andreia Castro)

- 14:30-15:10** **Ralf J. Sommer**
(MPI for Developmental Biology, Tübingen, DE)
The mechanisms of developmental plasticity: from switch genes and epigenetics to the interplay of organisms and their environment.
- 15:10-15:25** **Peter Sarkies**
(MRC, Imperial College London, UK)
piRNAs sense environmental perturbations to initiate transgenerational epigenetic responses to stress

- 15:25-15:40 Erwin Peterman**
(Vrije Universiteit Amsterdam, NL)
A single-molecule view on intraflagellar transport in the chemosensory cilia of living *C. elegans*
- 15:40-15:55 Anna Meledin**
(Technion-Israel Institute of Technology, Haifa, IL)
Cell non-autonomous mechanism of neuronal regeneration in *C. elegans*
- 15:55-16:10 Henrik Bringmann**
(MPI for Biophysical Chemistry, DE)
Engineering non-mendelian genetics
- 16:10-16:40 Coffee Break**
- 16:40-16:55 Vincent Portigijs**
(Utrecht University, NL)
Regulation of spindle positioning through phosphorylation of LIN-5 in asymmetric cell division
- 16:55-17:10 Manon Grosmaire**
(ENSL, University of Lyon, FR)
Cellular innovations at the origin of pseudogamy in nematodes

17:10-17:25 **Josana Rodriguez**
(Newcastle University, UK)
Dynamic cycling of PKC-3 activity between
distinct complexes polarizes the C. elegans
zygote

17:25-17:40 **Benita Wolf**
(ISREC/EPFL, Lausanne, CH)
Differential regulation of centrosome ampli-
fication in C. elegans stem cells

17:40 **Closing Remarks and Discussion**
on format of the next meeting:
- Rotation of Location for EWM 2018
- Organizing Committee for EWM 2018

approx. 18:15 **Departure to Venue in the City**
for Farewell Dinner & Party

starting 20:00 *Farewell Dinner & Party with Food,*
Drinks and Live Music at the Palais in
the Kulturbrauerei (Prenzlauer Berg),

<http://palais-kulturbrauerei.de/kontakt/>
<https://goo.gl/maps/EA8BjsrenTN>

The Farewell Dinner & Party will take place in the Palais at the Kulturbrauerei in Berlin-Prenzlauer Berg.

Date: 3rd June 2016

Time: 8:00 p.m. – 1:00 a.m.

Address:

Palais in der Kulturbrauerei
Schönhauser Allee 36
10435 Berlin



The Party will be accompanied by a live swing band “Semolina”.