Programme
THURSDAY 18 JUNE 2015

08:30–9:00  Registration – EMBL Operon Foyer, Meyerhofstrasse 1, 69117 Heidelberg

09:00-09:10  WELCOME  Maria Leptin, EMBO Director

09:10-10:30  SESSION I

FELLOWS’ TALKS

Michal Gwizdala
Following and controlling the fluorescence dynamics of the individual phycobilisome, a photosynthetic antenna complex of cyanobacteria

Rakesh Pandey
A model of the AppA/PpsR system in Rhodobacter sphaeroides parameterised from transcriptomic data is consistent with bistability

Yu-Hsuan Tsai
Selective rapid and switchable regulation of protein function via genetically directed bioorthogonal ligand tethering in live mammalian cells

Ivana Nikić
Minimal tags for dual-color live cell labeling and super-resolution imaging

Jens Frauenfeld
Salipro nanoparticles for the integration of hydrophobic drugs and membrane proteins

10:30-11:00  COFFEE BREAK

11:00-12:00  Jill Rowe  Head of EMBL Grants Services

Funding Opportunities

12:00-13:15  LUNCH at the EMBL canteen

13:15-14:30  SESSION II

David Owald
Activity of defined mushroom body output neurons underlies learned olfactory behavior in Drosophila

Sujoy Ganguly
Mathematical relationships between neuronal morphology and neurite growth dynamics in Drosophila melanogaster Larva Class IV sensory neurons

Ikuo Suzuki
Deciphering the molecular mechanisms linking the development and evolution of the human cerebral cortex

Ana Ribeiro
FoxJ1a-positive cells at the center of spinal cord regeneration in zebrafish

FELLOWS’ FLASH TALKS

Javier Gallego-Bartolome
Molecular mechanism of action of plant DRM de novo DNA methyltransferases.

Martin Groth
DNA methylation and folate metabolism in Arabidopsis

Carolina N Perdigoto
Embryonic maturation of epidermal Merkel cells is controlled by a redundant transcription factor network

Laure Verrier
Global regulation of heterochromatin spreading by Leo1

Sebastian Eustermann
Dissecting genome wide chromatin remodelling by IN080 in vitro
14:30-15:00  COFFEE BREAK & Group Photo

15:00-15:45  Nina Henriette Uhlenhaut, Institute for Diabetes and Obesity, Helmholtz Zentrum Munich
Getting hired & Getting funded: How I set up my own lab

15:45-16:15  Session III
Adina Gerson-Gurwitz
What is the role of the secreted kinase FAM20C in C. elegans?

Claudia Wurzenberger
How is the APC/C activated in mitosis?

Robert Mahen
Comparative assessment of fluorescent transgene methods for quantitative imaging in human cells.

Chantal Roubinet
Correct timing of cortical flows determine the position of the cleavage furrow during asymmetric cell division

Bruno Hudry
A new mechanism of sexual differentiation controls sexually dimorphic physiology in the adult intestine

Christine Moessinger
Regulation of glucose transport from the blood circulation via modulation of membrane cholesterol mediated by vascular endothelial growth factor B signaling in endothelial cells

Claudia Scheckel
Deciphering cell-type specific RNA regulation in the nervous system

Katrin Heindl
Autonomous activities of Argonaute during RISC assembly

Maria Winzi
Systematic dissection of embryonic germ layer differentiation

16:15-17:45  POSTER SESSION

17:45-18:45  SESSION IV
Jean-Léon Maître
Pulsatile cell-autonomous contractility drives compaction of the mouse embryo

Francisco Sarmento Mesquita
Novel regulators of cytoskeletal dynamics during host responses to pore forming toxins and Listeria monocytogenes infection

Thomas Mathivet
Unraveling mechanisms in vascular patterning during tumor angiogenesis using multi-photon in vivo imaging in mouse glioblastoma

Nikos Kourtis
Regulation of non-oncogene addiction in cancer

19:00  DINNER at the EMBL canteen

20:30  AFTER DINNER DRINKS (ATC Rooftop Lounge)

22:30  Bus to Hotel ISG
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:00 – 11.45</td>
<td><strong>SCIENCE COMMUNICATION WORKSHOP</strong></td>
<td>Samuel Caddick, EMBO Editor</td>
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<td><strong>Communicating your Science to a wider audience</strong></td>
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<td>11:45-13:00</td>
<td><strong>LUNCH at the EMBL canteen</strong></td>
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<td>[In Parallel: User Design session on FellowsNet, EMBO conference room with lunch]</td>
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<td>13:00-13:45</td>
<td><strong>SESSION I</strong></td>
<td>Felipe Cortes Ledesma, CABIMER, University of Sevilla</td>
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<td>DNA breaks and topoisomerases: the risk of playing with knives</td>
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<td>13:45-14:45</td>
<td><strong>SESSION II</strong></td>
<td>Constance Richter</td>
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<td>Peptidergic regulation of sleep in zebrafish</td>
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<td>Franz Weber</td>
<td>Control of REM Sleep by ventral medulla gabaergic neurons</td>
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<td><strong>SESSION I</strong></td>
<td>Sarah Ruediger</td>
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<td>Functional role of cortical and subcortical circuit interactions in visual perception of change detection</td>
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<td><strong>SESSION II</strong></td>
<td>Souvik Modi</td>
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<td>A small and highly specific Quantum Dot nanoprobe for imaging receptor dynamics at synapses</td>
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<td><strong>SESSION I</strong></td>
<td>Jessica Ettedgui</td>
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<td>Electrical detection of multiple neurotransmitters using a single nanopore</td>
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<td><strong>SESSION II</strong></td>
<td>Kanoelani Pilobello</td>
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<td>Single particle tracking of extracellular matrix accesses heterogeneous nanodomains in hippocampal neurons</td>
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<td><strong>SESSION I</strong></td>
<td>Sarah Jolly</td>
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<td>Investigation of a glial-specific G-protein-coupled receptor</td>
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<td><strong>SESSION II</strong></td>
<td>Filipp Frank</td>
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<td>Single-molecule studies of ribosome dynamics</td>
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<td><strong>SESSION I</strong></td>
<td>Pawel Sledz</td>
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<td>Conformational changes of 26S proteasome in substrate processing and degradation</td>
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<td>14:15-14:45</td>
<td><strong>COFFEE BREAK</strong></td>
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<td>14:45-16:15</td>
<td><strong>SESSION II</strong></td>
<td>Ronnie Berntsson</td>
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<td>Structural insights into botulinum neurotoxin binding to its neuronal receptors</td>
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<td><strong>SESSION I</strong></td>
<td>Cyprian Cukier</td>
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<td>Structural and biophysical characterization of the coiled-coil domain of THAP11 protein</td>
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<td><strong>SESSION II</strong></td>
<td>Luciano Abriata</td>
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<td>Dissecting the effects of highly concentrated solutes on proteins: Insights into the causes and consequences of quinary protein structure and cytoplasmic organization</td>
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<td><strong>SESSION I</strong></td>
<td>Marta Isasa</td>
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<td>Isobaric labeling enables high-throughput analysis of cellular ubiquitinomes</td>
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<td><strong>SESSION II</strong></td>
<td>Tommaso Cupido</td>
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<td>A general approach to identify potent and selective chemical inhibitors for AAA+ proteins</td>
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<td>FELLOWS’</td>
<td>FLASH TALKS</td>
<td>Ruben Martinez Barricarte: Inherited IL-12Rβ2 complete deficiency predisposes to BCG disease and tuberculosis</td>
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<td>FELLOWS’ TALKS</td>
<td>Hanna Taipaleenmäki: Osteoblast regulate breast cancer cell activity in the bone marrow</td>
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<td>Iris Uribesalgo: Apelin inhibition reduces tumour progression and potentiates anti-angiogenic therapy</td>
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<td>Ronit Freeman: Instructing cells with programmable peptide-DNA hybrids</td>
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<td>16:15-17:30</td>
<td>POSTER SESSION</td>
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<td>17:30 – 18:30</td>
<td>SESSION III</td>
<td>Luca Ciandrini: Ribosome recycling as a main determinant of experimental ribosome densities</td>
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<td>Jean Hausser: Inferring biological tasks using Pareto analysis of high-dimensional data.</td>
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<td>Fabien Duveau: Functional consequences of regulatory mutations across environments.</td>
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<td>Guillaume Rey: Central carbon metabolism regulates circadian transcriptional oscillations</td>
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<td>18:45</td>
<td>Bus to town</td>
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<td>19:15</td>
<td>DINNER at Brauhaus Vetter</td>
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<td>22:00</td>
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SATURDAY 20 JUNE 2015

09:00 – 10:30 SESSION I

FELLOWS’ TALKS

Bart Bardoel
Evasion of neutrophil antimicrobial proteins by Pseudomonas aeruginosa

Silvia Portugal
Malaria-associated atypical memory B cells exhibit markedly reduced B cell receptor signaling and effector function

Shruthi Vembar
Plasmodium falciparum Alba1 regulates blood stage mRNA homeostasis and translational timing of erythrocyte invasion proteins

Mickaël Bouvet
Implication of Epstein-Barr Virus-encoded microRNAs in immune evasion of infected B cells

Martin Etzrodt
Single stem cell timelapse imaging: Finding cytokine modulators of transcription factors

Liora Haim-Vilmovsky
Single cell gene expression dynamics in a type 2 immune response reveals pervasive heterogeneity in naive and effector CD4+ T cell populations

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 SESSION II

FELLOWS’ TALKS

Eva Hörmanseder
H3K4me3 mediated memory of an active transcriptional state impairs nuclear reprogramming

Poonam Bheda
Approaching single-cell “epigenetic” memory using microfluidics

Malin Jonsson Boezelman
Transcriptional profiling of human pluripotent stem cell-derived cardiomyocytes using single cell RNA sequencing

Ofer Rog
Direct visualization reveals kinetics of meiotic chromosome synapsis

Ying Wai Chan
Molecular mechanism and regulation of the GEN1 Holliday junction resolvase

Elisabeth M Zielonka
Posttranscriptional responses to genotoxic stress

12:30-13:30 LUNCH at the EMBL canteen

13:30-15:00 SESSION III
<table>
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<th>Schedule</th>
<th>Activity</th>
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<tr>
<td>15:00</td>
<td>Bus to Neckarländer Neckarsteinach</td>
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<td>15:40</td>
<td>Boat trip on the Neckar River</td>
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<td>Free evening</td>
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SUNDAY 21 JUNE 2015

09:30-10:30 SESSION I
FELLOWS' TALKS

Antonia Sagona
Cortical localization of MELK is essential for faithful execution of cell division

Priyanka Singh
The centriolar protein Bld10/Cep135 is required to establish centrosome asymmetry in Drosophila neuroblasts

Ashwani Sharma
Structural and functional characterization of the CPAP-tubulin interaction

Joshua Currie
Clonal dynamics of progenitors during axolotl appendage regeneration

10:30-11:00 COFFEE BREAK

11:00-11:45 Gonçalo Bernardes Department of Chemistry of the University of Cambridge, UK and Instituto de Medicina Molecular, Lisboa, PT
Working at the interface of chemistry and biology

11:45-12:30 Andrea Hutterer, Manager EMBO Fellowship programme
News from EMBO / Fellows’ Forum

12:30 – 13:45 LUNCH at the EMBL canteen

13:45 – 15:15 SESSION II
FELLOWS’ TALKS

Antonio Gentilella
40S subunit cooperates with the RNA binding protein LARP1 in stabilizing 5’TOP mRNAs

David Homolka
RNA element directs directional primary piRNA biogenesis

Jean-Sébastien Parent
Deciphering antisense RNA-triggered post-transcriptional gene silencing

Virginie Jouannet
Identification of the WOX4 downstream network essential for the regulation of lateral plant growth

Tamar Avin-Wittenberg
Global analysis of the role of autophagy in cellular metabolism and energy homeostasis in arabidopsis seedlings under carbon starvation

Hans-Wilhelm Nützmann
Chromatin signatures in plant specialized metabolism

15:15-15:45 Coffee Break

15:45 – 16:45 Michele Garfinkel Manager, Science Policy Programme, EMBO
Science Policy: Research and Practice

16:45 – 17:00 Break

17:00 – 18:00 Bernd Pulverer Head of Scientific Publications EMBO
Transparent Publishing, How to share reproducible data

18:00 Pre-dinner drinks

19:00 BBQ DINNER AT EMBL

21:00 PARTY

24:00 Bus back to hotel