

European *C. elegans* Neurobiology Meeting

9-11 October 2010

Fodele Beach Hotel, Crete, Greece

Saturday, 9 October

16:00-18:00 Registration

Platform session 1: **Sensory Mechanisms**

Chair: Sandhya Koushika

18:00 Welcome note

18:10 **Marios Chatzigeorgiou** [MRC Laboratory of Molecular Biology, UK]

“Lateral facilitation between primary mechanosensory neurons controls nose touch perception in *C. elegans*”

18:35 **Steven Husson** [Goethe University Frankfurt, Germany]

“Optogenetics-based functional analysis of a PVD-mediated nociceptive neuronal network in *C. elegans*”

19:00 **Wolfgang Maier** [Friedrich Miescher Institute for Biomedical Research, Switzerland]

“Different food types affect lifespan through the sensory nervous system and the neuromedin U receptor *nmur-1*”

19:25 **Manuel Zimmer** [Research Institute of Molecular Pathology (IMP), Austria]

“Soluble guanylate cyclases specify oxygen sensory neurons in *C. elegans*”

20:00 Dinner

Sunday, 10 October

Platform session 2: **Neuronal Cell Biology, Development & Disease models I**

Chair: Natascia Ventura

09:00 **Emiliano Cohen** [Hebrew University, Israel]

“DEG-3/DES-2 nAChR in PVD function and morphology”

09:25 **Muna Elmi** [University College London, UK]

“Identifying the effectors that enable RHO-1 to stimulate neuronal activity”

09:50 **Anthony Flemming** [Syngenta, UK]

“*C. elegans* identifies a novel insecticide target”

10:15 Coffee break

10:45 **James Johnson** [University of Liverpool, UK]

“Analysis of cysteine string protein function in *Caenorhabditis elegans*”

11:10 **Sandhya P. Koushika** [National Centre for Biological Sciences, India]

“Mitochondrial distributions in neurons are regulated by microtubules”

11:35 **Nikos Kourtis** [Institute of Molecular Biology and Biotechnology, FORTH, Greece]

“Small heat shock proteins protect against necrotic cell death”

13:00 Lunch

Platform session 3: **Neuronal Cell Biology, Development and Disease Models II**

Chair: Tibor Vellai

- 14:00 **Sandhya P. Koushika** [National Centre for Biological Sciences, India]
“The *C. elegans* kinesin motor UNC-104 is degraded upon loss of specific binding to cargo”
- 14:25 **Markella Katidou** [Institute of Molecular Biology and Biotechnology, FORTH, Greece]
“The contactin RIG-6 mediates axon outgrowth and navigation in *C. elegans*”
- 14:50 **Benjamin Podbilewicz** [Technion-Israel Institute of Technology, Israel]
“Mechanism of dendritic arborization”
- 15:15 *Coffee break*
- 15:45 **Oliver Wagner** [National Tsing-Hua University, Taiwan]
“Regulation of the molecular motor UNC-104(KIF1A) in the nervous system of *C. elegans*”
- 16:10 **Natascia Ventura** [University of Rome, Tor Vergata, Italy]
“Frataxin suppression reduces fat accumulation and induces autophagy, in a p53 dependent manner, independently of a caloric restriction-like response”
- 16:35 **Rakesh Bodhicharla** [University of Nottingham, UK]
“Transgenic nematodes as a model for Parkinson’s disease”
- 17:00 **Poster session** with *Coffee break*
- 20:00 *Dinner*

Monday 11 October

Platform session 4: **Behaviour & Methods/Technology**

Chair: Manuel Zimmer

- 09:00 **Andrea Choe** [CALTECH University, USA]
“Identification of Ascr1 as a gender specific mate-finding cue in the free-living nematode *Panagrellus redivivus*”
- 09:25 **Shu Liu** [Albert Ludwig Univ. Freiburg, Inst. Fuer Biology III/ZBSA, Germany]
“The neuronal circuit for the thermal avoidance response in *Caenorhabditis elegans*”
- 09:50 **Neta Cohen** [University of Leeds, UK]
“A computational model of associative learning and chemotaxis in the nematode worm *C. elegans*”
- 10:15 *Coffee break*
- 10:45 **Sudip Mondal** [National Centre for Biological Sciences, India]
“Microfluidic devices for neuronal transport imaging in *C. elegans*”
- 11:10 **Matthias Rieckher** [Institute of Molecular Biology and Biotechnology, FORTH, Greece]
“*In vivo* Optical Projection Tomography (OPT) imaging in *Caenorhabditis elegans*”
- 11:35 Closing remarks
- 13:00 *Lunch*