20th HFSP AWARDEES MEETING
an online event
5 – 8 July 2021

Posters
Poster Session 1: Monday, 5 July (15:00 – 16:05 CEST)

1. Metabolic control of transcriptional dynamics during adipogenic differentiation in human mesenchymal stem cells
   Lorena AGUILAR ARNAL, Dept. of Molecular Biology and Biotechnology, Institute of Biomedical Sciences, UNAM - National Autonomous University of Mexico, Mexico City, Mexico
   Young Investigator Grant 2017

2. Label-free metabolic imaging during adipogenic differentiation in human mesenchymal stem cells
   Chiara STRINGARI, Lab. for Optics and Biosciences, Ecole Polytechnique, National Center for Scientific Research CNRS, Palaiseau, France
   Young Investigator Grant 2017

3. Poetic meter helps memory formation; with Ariosto but not with Dante
   Sara ANDREETTA, Dept. of Cognitive Neuroscience, International School for Advanced Studies (SISSA), Trieste, Italy
   Program Grant 2016

4. Letter position dyslexia in reading of fingerspelling in two deaf signers
   Neta HALUTS, Language and Brain Lab, Sagol School of Neuroscience and School of Education, Tel Aviv, Israel
   Program Grant 2016

5. Investigating the role of muscle in post-embryonic patterning in Nematostella vectensis
   Marie ANZO, Developmental Biology Unit, EMBL, Heidelberg, Germany
   Long-Term Fellow 2019

6. Extracellular crosslinking mass spectrometry reveals HLA class I – HLA class II interactions on the cell surface
   Gad ARMONY, Dept. of Chemistry, Utrecht University, the Netherlands
   Long-Term Fellow 2018

7. Causal role for sleep-dependent reactivation of learning-activated sensory ensembles for fear memory consolidation
   Sara ATON, Dept. of Molecular, Cellular and Developmental Biology, University of Michigan, Ann Arbor, USA
   Young Investigator Grant 2017

8. The tired hippocampus: memory engrams in the sleep-deprived brain
   Robbert HAVEKES, Groningen Institute for Evolutionary Life Sciences, Neurobiology Expertise Group, Faculty of Science and Engineering, University of Groningen, the Netherlands
   Young Investigator Grant 2017

9. Cell-cell contact formation and wnt/β-catenin signalling in echinoderm embryos
   Vanessa BARONE, Scripps Institute of Oceanography, University of California, San Diego, La Jolla, USA
   Long-Term Fellow 2019
10. **Evolution via somatic genetic variation in multicellular species**  
   *Iliana BAUMS*, Dept. of Biology, Pennsylvania State University, University Park, USA  
   *Program Grant 2020*

11. **Cerebellar granule cell synaptic representation of behaviour**  
   *Franziska BENDER*, Dept. of Neuroscience / Dynamic Neuronal Imaging, Institut Pasteur, Paris, France  
   *Long-Term Fellow 2019*

12. **A high energy phosphate jump – from pyrophospho-inositol to pyrophospho-serine**  
   *Rashna BHANDARI*, Lab. of Cell Signalling, CDFD, Hyderabad, India  
   *Program Grant 2016*

13. **Characterizing the activity and function of neural assemblies occurring in the hippocampus during rapid eye movement sleep**  
   *Richard BOYCE*, INMED U1249, Institut de Neurobiologie de la Méditerranée, Marseille, France  
   *Long-Term Fellow 2018*

14. **Development of a platform for monitoring neural signals in the gut**  
   *Alexander BOYS*, Dept. of Chemical Engineering and Biotechnology, University of Cambridge, UK  
   *Cross-Disciplinary Fellow 2020*

15. **Handling OXPHOS structural heterogeneity and metabolic plasticity - establishment of techniques to test monoallelic expression and selection mechanism of OXPHOS subunits**  
   *Tasnim ARROUM*, Dept. of Biology, Westfälische-Wilhelms-Universität Münster, Institute of Molecular Cell Biology, Münster, Germany  
   *Program Grant 2018*

16. **In silico protein models of OXPHOS respiratory complexes**  
   *Jose Luis CABRERA*, Myocardial Pathophysiology area, Centro Nacional de Investigaciones Cardiovasculares Carlos III (FSP), Madrid, Spain  
   *Program Grant 2018*

17. **Handling OXPHOS structural heterogeneity and metabolic plasticity**  
   *José Antonio ENRÍQUEZ*, Myocardial Pathophysiology area, Centro Nacional de Investigaciones Cardiovasculares Carlos III (FSP), Madrid, Spain  
   *Program Grant 2018*

18. **OXPHOS diversity regulation at transcriptional level**  
   *Pablo HERNANZANZ*, Myocardial Pathophysiology area, Centro Nacional de Investigaciones Cardiovasculares Carlos III (FSP), Madrid, Spain  
   *Program Grant 2018*

19. **Establishing Hydra oligactis as a model for regeneration and aging**  
   *Sergio Esteban CAMPOS RODRIGUEZ*, Dept. of Molecular and Cellular Biology, University of California, Davis, USA  
   *Long-Term Fellow 2020*
20. Diving into the cerebrospinal fluid to understand its impact on the geometry of the body axis and of the spine in vertebrates
Yasmine CANTAUT-BELARIF, Paris Brain Institute (ICM), France
Program Grant 2018

21. Light on an axial sensory system detecting spinal curvature
Adeline ORTS-DEL’IMMAGINE, Paris Brain Institute (ICM), France
Program Grant 2018

22. Hyaluronidase-1-mediated glycocalyx impairment underlies endothelial abnormalities in polypoidal choroidal vasculopathy
Christine CHEUNG, Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore
Young Investigator Grant 2019

23. Physical determinants for the coexistence of nematic and polar network states in mitotic spindles
Wei Xiang CHEW, Dept. of Cell and Developmental Biology, Centre for Genomic Regulation, Barcelona, Spain
Cross-Disciplinary Fellow 2020

24. Mechanisms of infrasound detection in birds: a phylogenetic comparative test of middle and inner ear anatomical structures
Susana CLUSELLA-TRULLAS, Dept. of Botany and Zoology, Stellenbosch University, South Africa
Young Investigator Grant 2017

25. Linking infrasound to seabird movement decisions
Samantha PATRICK, Seabird Ecology Group, Marine Biology, School of Environmental Sciences, University of Liverpool, UK
Young Investigator Grant 2017

26. Engram epigenetics – a CRISPR-based approach to identify genes for the treatment of remote traumatic fear memories
Davide CODA, Laboratory of Neuroepigenetics, Brain and Mind Institute, École Polytechnique Fédérale de Lausanne, Switzerland
Long-Term Fellow 2020

27. Defining how water deficit signals control flowering time adaptation
Lucio CONTI, Dept. of Biosciences, Università degli studi di Milano, Milan, Italy
Program Grant 2019

28. Metabolic control of nuclear trafficking and mRNA splicing via arg-tRNA synthetase
Haissi CUI, Scripps Laboratories for tRNA Synthetase Research, The Scripps Research Institute, La Jolla, USA
Long-Term Fellow 2017

29. Uncovering new factors in vertebrate fertilization using proximity biotinylation
Victoria DENEKE, Pauli Lab, Research Institute of Molecular Pathology, Vienna, Austria
Long-Term Fellow 2020
30. **Insect pollinators use active tactile sensing to interact with plants**
   *Tanvi DEORA*, Dept. of Biology, University of Washington, Seattle, USA
   *Long-Term Fellow 2017*

31. **Bioconvective chaos shapes dynamics and lifetime of harmful algal blooms**
   *Jayabrata DHAR*, FSTC - Physics of Living Matter, University of Luxembourg, Luxembourg
   *Cross-Disciplinary Fellow 2019*

32. **Drug repurposing screen identifies masitinib as a broad coronavirus 3CL inhibitor that blocks SARS-CoV-2 replication in vivo**
   *Nir DRAYMAN*, Institute for Molecular Engineering / S. Tay Laboratory, University of Chicago, USA
   *Long-Term Fellow 2017*

33. **Microtubule self-organization, cell division, and the evolution of meristem structure**
   *Jacques DUMAIS*, Facultad de Ingeniería y Ciencias, Universidad Adolfo Ibáñez, Viña del Mar, Chile
   *Program Grant 2018*

34. **Defining the capacity of cells to keep the proteome folded over space and time**
   *Simon EBBINGHAUS*, Institut für Physikalische und Theoretische Chemie, Braunschweig
   Integrated Centre of Systems Biology (BRICS), Technische Universität Braunschweig, Germany
   *Program Grant 2017*

35. **Genomic basis of mechanosensation: exploring the origins and evolution of hearts and brains**
   *Eric EDSINGER*, Molecular Neurobiology Laboratory, The Salk Institute, La Jolla, USA
   *Program Grant 2017*

36. **Origins of cell types and integrative systems in metazoa: insights from single-cell genomics, metabolomics and behavioral pharmacology across phyla**
   *Leonid L. MOROZ*, Dept. of Neuroscience, University of Florida, The Whitney laboratory for Marine Bioscience, St. Augustine, USA
   *Program Grant 2017*

37. **Mechanisms of resistance to ionising radiation in Drosophila neural stem cells**
   *André EID*, Physiology and Metabolism Laboratory, The Francis Crick Institute, London, UK
   *Long-Term Fellow 2018*

38. **Expanding the regulatory role of KRAB zinc finger proteins through RNA interactions**
   *Christina ERNST*, Laboratory of Virology and Genetics, École Polytechnique Fédérale de Lausanne, Switzerland
   *Long-Term Fellow 2019*

39. **Cryo-EM analysis of a membrane protein embedded in the liposome**
   *Xiao FAN*, Dept. of Molecular Biology, Princeton University, USA
   *Long-Term Fellow 2020*
40. **The nervous system of the leech as a broad-range model for neurobiology research**  
   *Francisco FERNANDEZ DE MIGUEL*, Instituto de Fisiologia Celular-Neurociencias, Universidad Nacional Autónoma de México, Ciudad de Mexico, Mexico  
   Program Grant 2019

41. **Microbiome mediated plasticity promotes thermal adaptation in Nematostella vectensis**  
   *Sebastian FRAUNE*, Institut für Zoologie und Organismische Interaktionen, Heinrich-Heine Universität Düsseldorf, Germany  
   Young Investigator Grant 2016

42. **Non-refoldability is pervasive across the E. coli proteome**  
   *Stephen FRIED*, Dept. of Chemistry, John Hopkins University, Baltimore, USA  
   Young Investigator Grant 2019

43. **Exploration of RNA-binding motifs in limited amino acid sequence space**  
   *Kosuke FUJISHIMA*, Earth-Life Science Institute, Tokyo Institute of Technology, Japan  
   Young Investigator Grant 2019

44. **Physics of parasitism: Plasmodium senses environmental elasticity during transmission of malaria**  
   *Friedrich FRISCHKNECHT*, Parasitology Unit, Center for Infectious Diseases, University of Heidelberg Medical School, Germany  
   Young Investigator Grant 2016

45. **Causal deconvolution of a thermodynamic model of MAPK signaling explains adaptive and genetic resistance to targeted drugs in BRAF-mutant cancers**  
   *Fabian FROEHLICH*, Laboratory of Systems Pharmacology, Harvard Medical School, Boston, USA  
   Long-Term Fellow 2019

46. **Random peptides are a source of cellular novelty and assume various cellular functions**  
   *Idan FRUMKIN*, Dept. of Biology, Massachusetts Institute of Technology, Cambridge, USA  
   Long-Term Fellow 2018

47. **Diversity and function of GPCRs in Choanoflagellates**  
   *Alain GARCIA DE LAS BAYONAS*, Dept. of Molecular and Cell Biology, University of California, Berkeley, USA  
   Long-Term Fellow 2020

48. **Sticky PI, an AI-powered smart insect trap for community chronoeology**  
   *Quentin GEISSMANN*, Dept. of Microbiology and Immunology, University of British Columbia, Vancouver, Canada  
   Long-Term Fellow 2019

49. **Regulation of spindle pole architecture by the microtubule focusing machineries**  
   *Romain GIBEAUX*, Institute of Genetics and Development of Rennes (IGDR), UMR6290 CNRS / University of Rennes 1, France  
   Career Development Award 2019
50. Development of a semi-field system for quantitative tracking of Anopheles gambiae olfactory preference
   Diego GIRALDO SANCHEZ, Dept. of Molecular Microbiology and Immunology, Johns Hopkins University, Baltimore, USA
   Long-Term Fellow 2019

51. Expression of an endogenous retrovirus in the developing mouse limb drives severe malformation
   Juliane GLASER, Development and Disease Research Group, Max Planck Institute for Molecular Genetics, Berlin, Germany
   Long-Term Fellow 2019

52. Universal surface patterning mechanisms in plants and animals: an integrative study of dynamics of material properties, stress and size with relation to surface patterns
   Beverley GLOVER, Dept. of Plant Sciences, University of Cambridge, Cambridge University Botanic Garden, UK
   Program Grant 2017

53. Immune response during lactation after anti-SARS-CoV2 mRNA vaccine
   Yarden GOLAN MAOR, Dept. of Bioengineering, University of California, San Francisco, USA
   Long-Term Fellow 2020

54. Self-organized morphogenesis of an in vitro human neural tube
   Eyal KARZBRUN, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, USA
   Long-Term Fellow 2018

55. Revealing uncharacterized molecular pathways for cancer cell fitness through a genetic screen of the cancer translatome
   Duygu KUZUOGLU OZTURK, Department of Urology, Helen Diller Family Comprehensive Cancer Center, University of California, San Francisco, USA
   Long-Term Fellow 2016

56. Mechanisms of actin force production in clathrin-mediated endocytosis revealed by integrating mathematical modeling with in situ cryo-electron tomography
   Daniel SERWAS, Dept. of Molecular and Cell Biology, University of California, Berkeley, USA
   Long-Term Fellow 2018

57. Molecular mechanism of biased signaling in a prototypical G protein–coupled receptor
   Carl-Mikael SUOMIVUORI, Dept. of Computer Science, Stanford University, USA
   Long-Term Fellow 2018

58. Biomechanical induction of a human primitive streak
   Manon VALET, Center for Studies in Physics and Biology, The Rockefeller University, New York, USA
   Cross-Disciplinary Fellow 2020

59. Understanding the antimicrobial mechanism of silver
   Yong WANG, Dept. of Physics, University of Arkansas, Fayetteville, USA
   Cross-Disciplinary Fellow 2014
**Poster Session 2:** Tuesday, 6 July (13:45 – 14:50 CEST)

60. Predicting lapses of attention with sleep-like slow waves  
   **Thomas ANDRILLON**, Paris Brain Institute, Paris, France  
   *Long-Term Fellow 2018*

61. How do fish process visual motion cues to orient in their environment?  
   **Aristides ARRENBERG**, Institute for Neurobiology, Systems Neurobiology, University of Tuebingen, Werner Reichardt Centre for Integrative Neuroscience, Tuebingen, Germany  
   *Young Investigator Grant 2018*

62. Do you see what I see? Developing transgenic tools in cichlid fish to quantify neural activation and visually guided behaviors  
   **Scott JUNTTI**, Dept. of Biology, University of Maryland, College Park, USA  
   *Young Investigator Grant 2018*

63. Investigation of visual circuit adaptations to natural environmental motion in zebrafish and African cichlids  
   **Tod THIELE**, Dept. of Biological Sciences, University of Toronto Scarborough, Canada  
   *Young Investigator Grant 2018*

64. A modular electrochemical biosensing platform for small molecule detection  
   **Adam DAMRY**, Research School of Chemistry, Australian National University, Canberra, Australia  
   *Cross-Disciplinary Fellow 2020*

65. Deazaguanine derivatives protect dsDNA phages from host restriction enzymes  
   **Valérie DE CRÉCY-LAGARD**, Dept. of Microbiology and Cell Science, University of Florida, Gainesville, USA  
   **Geoffrey HUTINET**, Dept. of Microbiology and Cell Science, University of Florida, Gainesville, USA  
   *Program Grant 2018*

66. Novel approaches to understanding sleep from a single neuron to the whole brain  
   **Daniel FORGER**, Dept. of Mathematics, University of Michigan, Ann Arbor, USA  
   *Program Grant 2018*

67. Data-driven discovery of control mechanisms coordinating locomotor behaviours  
   **Adam GOSZTOLAI**, Brain Mind Institute and Institute of Bioengineering, École Polytechnique Fédérale de Lausanne, Switzerland  
   *Cross-Disciplinary Fellow 2020*

68. Comparative whole-genome approach to identify traits underlying microbial interactions  
   **Hans-Peter GROSSART**, Dept. of Limnology of Stratified Lakes, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Potsdam University, Stechlin, Germany  
   *Program Grant 2016*

69. Spirals and asters direct supracellular organization in nematic tissues  
   **Pau GUILLAMAT**, Laboratory of Integrative Cell and Tissue Dynamics, Institute for Bioengineering of Catalonia, Barcelona, Spain  
   *Cross-Disciplinary Fellow 2018*
70. An extended DNA-free intranuclear compartment organizes centrosomal microtubules in malaria parasite

 Julien GUIZETTI, Centre for Infectious Diseases / Parasitology Unit, Heidelberg University Hospital, Germany
 Career Development Award 2018

71. CAMKII activation persistently segregates postsynaptic proteins via liquid phase separation

 Yasunori HAYASHI, Dept. of Pharmacology, Graduate School of Medicine, Kyoto University, Japan
 Program Grant 2019

72. Trans-synaptic assemblies link synaptic vesicles and neureceptors

 Vladan LUCIC, Dept. of Molecular Structural Biology, Max Planck Institute of Biochemistry, Martinsried, Germany
 Program Grant 2019

73. Direct single-cell RNA kinetics measurements in thousands of cells with NASC-seq2

 Gerardus Johannes HENDRIKS, Karolinska Institute, Stockholm, Sweden
 Long-Term Fellow 2017

74. Insight into the connectome of the learning and memory network of the octopus

 Binyamin HOCHNER, Dept. of Neurobiology, Silberman Institute of Life Sciences, Hebrew University, Jerusalem, Israel
 Program Grant 2019

75. Multicolor three-photon fluorescence imaging deep in living mouse brain

 Yusaku HONTANI, Dept. of Applied and Engineering Physics, Cornell University, Ithaca, USA
 Cross-Disciplinary Fellow 2019

76. Mechanisms underlying neural misrepresentations of speech in hearing loss across different sound level intensities

 Chengjie HUANG, Ear Institute, University College London, UK
 Long-Term Fellow 2019

77. Linking structural dynamics of the repeat-protein scaffold PR65 to its allosteric mechanics and its function in the multi-subunit enzyme PP2A

 Laura ITZHAKI, Dept. of Pharmacology, University of Cambridge, UK
 Program Grant 2020

78. Multi-timescale representations of rat behavior

 Kanishk JAIN, Dept. of Biology, Emory University, Atlanta, USA
 Young Investigator Grant 2018

79. Sequential variational autoencoders for simultaneously recorded neural and behavioural data

 Auguste SCHULZ, Machine Learning in Science, Cluster of Excellence "Machine Learning", Faculty of Mathematics and Natural Sciences, University of Tübingen, Germany
 Young Investigator Grant 2018
80. **Molecular mechanisms of survival to the long polar night in the diatom *Fragilariopsis cylindrus***
   *Nathalie JOLI*, Ecology and Evolutionary Biology Section, Institute of Biology, ENS Paris, CNRS UMR8197, Paris, France
   *Program Grant 2016*

81. **Locus coeruleus broadcasts visuomotor errors across neocortex**
   *Rebecca JORDAN*, Dept. of Neurobiology, Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland
   *Long-Term Fellow 2019*

82. **Probing consequences of climate change: embryonic development at elevated temperature in flies**
   *Girish KALE*, Centre for Organismal Studies, University of Heidelberg, Germany
   *Long-Term Fellow 2019*

83. **Genome evolution and the control of transposable elements during germline development in Drosophila**
   *Felipe KARAM TEIXEIRA*, Dept. of Genetics, University of Cambridge, UK
   *Career Development Award 2018*

84. **Wireless closed-loop optogenetics across the entire dorsoventral spinal cord in ecological environments**
   *Claudia KATHE*, Laboratory of Prof. Grégoire Courtine, École Polytechnique Fédérale de Lausanne, Switzerland
   *Long-Term Fellow 2017*

85. **Signal-switchable chimeric enzymes used for mimicking boolean logic gates**
   *Evgeny KATZ*, Dept. of Chemistry & Biomolecular Science, Clarkson University, Potsdam, USA
   *Program Grant 2018*

86. **Direct electron transfer of pyrroloquinoline quinone-dependent glucose dehydrogenase (PQQ-GHD) based on carbon nano-onions-modified glassy carbon electrodes**
   *Ciara O’ SULLIVAN*, Dept. of Chemical Engineering, Universitat Rovira i Virgili, ICREA, Tarragona, Spain
   *Program Grant 2018*

87. **Towards structural characterisation of the RNA M6A writer machinery**
   *Migle KAZLAUSKIENE*, Dept. of Biochemistry, University of Zurich, Switzerland
   *Long-Term Fellow 2019*

88. **Is the morphological diversity of lizard osteoderms paralleled by a wide range of biomechanical properties?**
   *Program Grant 2019*

89. **The histology and evolution of lizard osteoderms: microstructural diversity of a skin-based skeletal system**
   *Catherine WILLIAMS*, Dept. of Biomedical Sciences, University of Guelph, Canada
   *Program Grant 2019*
90. A metabolomic view of phosphate starvation responses in Saccharomyces cerevisiae  
*Geundon KIM*, Dept. of Biochemistry, University of Lausanne, Epalinges, Switzerland  
*Long-Term Fellow 2019*

91. Role of post-translational modifications of mammalian SWI/SNF chromatin remodeling  
complexes in human disease  
*Shany KOREN-HAUER*, Dept. of Chemistry, Princeton University, USA  
*Long-Term Fellow 2020*

92. Hypoxia adaptation in Tibetan population unravels the identity and regulation of  
epo-producing renal cells  
*Bjoert Katrinardottir KRASTSTEEN*, Dept. of Immunology, Weizmann Institute of Science,  
Rehovot, Israel  
*Long-Term Fellow 2019*

93. Unraveling the function of orphan lysosomal transporters implicated in neurodegenerative  
disease  
*Alvin Chun Yin KUK*, Cardiovascular and Metabolic Disorders Programme, Duke-NUS Medical  
School, Singapore  
*Long-Term Fellow 2020*

94. Bottom-up construction of a minimal synthetic cell  
*Yutetsu KURUMA*, X-star, Japan Agency for Marine-Earth Science and Technology, Kanagawa,  
Japan  
*Program Grant 2020*

95. Whole-brain mapping of brain activity induced by imprinted cues  
*Chiara LA ROSA*, Dept. of Life Sciences and Systems Biology, University of Turin, Italy  
*Program Grant 2020*

96. Sexual imprinting on the brain  
*Sarah M. ZALA*, Konrad Lorenz Institute of Ethology, Veterinary Medicine University, Vienna,  
Austria  
*Program Grant 2020*

97. The mechanics and energetics of insect herbivory: from cutting `machines’ to ecosystem  
structure  
*David LABONTE*, Dept. of Bioengineering, The Imperial College of Science, Technology and  
Medicine, London, UK  
*Young Investigator Grant 2020*

98. A murine atlas of age-related changes in intercellular communication  
*Cyril LAGGER*, Institute of Life Course and Medical Sciences, University of Liverpool, UK  
*Cross-Disciplinary Fellow 2019*

99. Raman microspectroscopy of marine microbial communities through time  
*Zachary LANDRY*, Institut für Umweltingenieurwissenschaften - GWH, ETH Zurich, Switzerland  
*Long-Term Fellow 2018*
100. Plant responses to climate change through space and time
Patricia LANG, Dept. of Biology, Stanford University, USA
Long-Term Fellow 2019

101. A cold stress inducible PERK-OGT-TOM70 axis controls mitochondrial protein import and cristae formation
Pedro LATORRE-MURO, Dept. of Cancer Biology, Dana-Farber Cancer Institute / Harvard Medical School, Boston, USA
Long-Term Fellow 2019

102. The origin and evolution of the mitochondrial MutS gene in octocorals
Dennis LAVROV, Dept. of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, USA
Program Grant 2019

103. C-terminal endonuclease domain in the octocoral mitochondria MutS protein
Somnath MONDAL, Institut Européen de Chimie et Biologie, University of Bordeaux, U1212, CNRS UMR5320, Pessac, France
Program Grant 2019

104. Multiple losses of MSH1, gain of mtMutS, and other changes in the MutS family of DNA repair proteins in animals
Viraj MUTHYE, Dept. of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, USA
Program Grant 2019

105. Tracking calcium dynamics and protein secretion by Choroid plexus epithelial cells
Maria LEHTINEN, Dept. of Pathology, Boston Children’s Hospital, USA
Program Grant 2018

106. Cortical-like dynamics in recurrent circuits optimized for sampling-based probabilistic inference
Mate LENGYEL, Computational and Biological Learning Lab, Dept. of Engineering, University of Cambridge, UK
Program Grant 2018

107. Continuous multiplexed population representations of task context in the mouse primary visual cortex
Gergo ORBAN, Computational System Neuroscience Lab, MTA Wigner Research Centre for Physics, Budapest, Hungary
Program Grant 2018

108. Lipids in the brain: modulation of GPCR activity by lipids
Ilpo VATTULAINEN, Dept. of Physics, University of Helsinki, Finland
Program Grant 2019

109. Searching for hypoxia sensors within the class of O2-dependent enzymes
Li LI, Dept. of Pharmaceutical Chemistry, University of California, San Francisco, USA
Cross-Disciplinary Fellow 2020
110. **Pre-birth tissue specific immune education**
*Ai ing LIM*, National Institute of Allergy and Infectious Disease, National Institutes of Health, Bethesda, USA
*Long-Term Fellow 2018*

111. **NGN2 induces diverse neuronal lineages from human pluripotency**
*Hsiu-Chuan LIN*, Human Retina and Organoid Development Group, Institute of Molecular and Clinical Ophthalmology Basel, Switzerland
*Long-Term Fellow 2020*

112. **Sensory errors drive compensatory vocal behaviours in echolocating bats**
*Jinhong LUO*, School of Life Science, Central China Normal University, Wuhan, People’s Republic of China
*Career Development Award 2019*

113. **Nature-inspired robotic technology: dung beetle-like robot that can perform complex locomotion and object transportation on various terrains**
*Poramate MANOONPONG*, Embodied Artificial Intelligence & Neurorobotics Lab, Centre for BioRobotics, The Maersk Mc-Kinney Moller Institute, The University of Southern Denmark, Odense, Denmark
*Program Grant 2017*

114. **Mucociliary clearance and non-equilibrium transport by active coating materials**
*Arnold MATHIJSSEN*, Dept. of Physics and Astronomy, University of Pennsylvania, Philadelphia, USA
*Cross-Disciplinary Fellow 2017*

115. **Distributional reinforcement learning in the dopamine system**
*Sara MATIAS*, Dept. of Molecular and Cellular Biology, Harvard University, Cambridge, USA
*Long-Term Fellow 2018*

116. **Deconstructing settlement decision-making in coral larvae**
*Mikhail MATZ*, Dept. of Integrative Biology, The University of Texas at Austin, USA
*Program Grant 2020*

117. **BRAIN-SEQ or neural system at the single-cell resolution: insights in the origins of neuronal centralization and memory mechanisms**
*Leonid L. MOROZ*, Dept. of Neuroscience, University of Florida, The Whitney laboratory for Marine Bioscience, St. Augustine, USA
*Program Grant 2017*

118. **Movement ecology of ocean wanderers in relation to infrasound**
*Samantha PATRICK*, Seabird Ecology Group, Marine Biology, School of Environmental Sciences, University of Liverpool, UK
*Young Investigator Grant 2017*

119. **The receptor kinase SRF3 coordinates iron-defense-growth tradeoff in plants**
*Matthieu PLATRE*, Department of Plant Biology, The Salk Institute for Biological Studies, La Jolla, USA
*Long-Term Fellow 2019*
Poster Session 3: Wednesday, 7 July (13:45 – 14:50 CEST)

120. Integrating materials, behavior, robotics and architecture in giant filter-feeding sharks
*Mason DEAN*, Dept. of Zoology, Trinity College Dublin, Ireland
*Program Grant 2020*

121. Neurons in the dorso-central pallium of zebrafish respond to change in visual numerosity
*Andrea MESSINA*, School of Biological and Chemical Sciences, Queen Mary University of London, UK
*Program Grant 2017*

122. De novo design of protein mechanics
*Lukas MILLES*, Institute for Protein Design, University of Washington, Seattle, USA
*Cross-Disciplinary Fellow 2020*

123. Nanostructure tools for studying protein structure and assembly
*Carsten MIM*, Dept. of Structural Biotechnology, School of Technology and Health, KTH Royal Technical Institute, Huddinge, Sweden
*Young Investigator Grant 2016*

124. In vivo imaging of synaptic renormalization during post-learning sleep
*Daisuke MIYAMOTO*, Laboratory for Sleeping-Brain Dynamics, Research Center for Idling Brain Science, University of Toyama, Japan
*Long-Term Fellow 2017*

125. Regulatory T cells promote innate inflammation following skin barrier breach
*Joshua MOREAU*, Dept. of Dermatology, University of California, San Francisco, USA
*Long-Term Fellow 2018*

126. Miniaturized deep activity recording with high throughput (MiniDART)
*Claudio MORETTI*, Lab. Kastler-Brossel, Sorbonne Université, UPMC-ENS, Paris, France
*Program Grant 2020*

127. Brain evolution demystified: on the origin of the everted neocortex-homolog in zebrafish
*Thomas MUELLER*, Division of Biology / Mueller-lab, Kansas State University, Manhattan, USA
*Program Grant 2019*

128. Filament nucleation tunes mechanical memory in active polymer networks
*Michael MURRELL*, Dept. of Biomedical Engineering, Yale University / Systems Biology Institute, West Haven, USA
*Young Investigator Grant 2018*

129. Imaging influenza virus RNA genome assembly with high spatial and temporal resolutions inside infected cells
*Nadia NAFFAKH*, Dept. of Virology, Institut Pasteur, Paris, France
*Program Grant 2019*
130. Somite surface tension buffers imprecise segment lengths to ensure increased precision and left-right symmetry
*Sundar NAGANATHAN*, Institute of Bioengineering, École Polytechnique Fédérale de Lausanne, Switzerland
*Long-Term Fellow 2016*

131. Cohesin mediates sister chromatid cohesion independently of DNA loop extrusion
*Kota NAGASAKA*, Jan-Michael Peters lab, Molecular and Cellular Biology, Research Institute of Molecular Pathology, Vienna, Austria
*Long-Term Fellow 2017*

132. Molecular mechanisms of microtubule nucleation in plant cells
*Masayoshi NAKAMURA*, Institute of Transformative Bio-Molecules, Nagoya University, Japan
*Career Development Award 2017*

133. Engineering enzymes to study the role of lysine acylation in chromatin structure and dynamics
*Heinz NEUMANN*, Dept of Chemical Engineering and Biotechnology, University of Applied Sciences Darmstadt, Germany
*Program Grant 2017*

134. How likely is the emergence of (autocatalytic) self-reproducing RNAs?
*Philippe NGHE*, Laboratoire de Biochimie, ESPCI, Paris, France
*Young Investigator Grant 2019*

135. Exploring sleep ecology and genetics across hyperdiverse lake Tanganyikan cichlids
*Annika NICHOLS*, Biozentrum, University of Basel, Switzerland
*Long-Term Fellow 2019*

136. Evolution of gene function, regulation and expression in a unique wintering strategy
*William THOMAS*, Dept. of Ecology and Evolution, SUNY Stony Brook, USA
*Program Grant 2019*

137. Developmental plasticity as a novel predisposing factor for tumorigenesis
*Ilaria PANZERI*, Center for Epigenetic, Van Andel Research Institute, Grand Rapids, USA
*Long-Term Fellow 2018*

138. A mechanochemical gradient driving germ layer segregation during zebrafish gastrulation
*Diana PINHEIRO*, Laboratory of Morphogenesis in Development, Institute of Science and Technology Austria, Klosterneuburg, Austria
*Long-Term Fellow 2018*

139. How T cells avoid traffic jams
*Jérémy POSTAT*, Dept. of Physiology, Faculty of Medicine, McGill University, Montreal, Canada
*Long-Term Fellow 2019*

140. De novo design of dynamic proteins
*Florian PRAETORIUS*, Dept. of Biochemistry, University of Washington, Seattle, USA
*Long-Term Fellow 2019*
141. Dynamics of epithelial monolayers on curved surfaces
   Jacques PROST, Dept. of Physicochimie, Institut Curie - UMR168, Paris, France
   Program Grant 2018

142. Live imaging of the hyperthermophilic archaeon Sulfolobus acidocaldarius identifies complementary roles for two ESCRTIII homologues in ensuring a robust and symmetric cell division
   André PULSCHEN, MRC Laboratory for Molecular Cell Biology, University College London, UK
   Long-Term Fellow 2019

143. Ultrafast amplitude modulation for molecular and hemodynamic ultrasound imaging
   Claire RABUT, Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, USA
   Cross-Disciplinary Fellow 2020

144. Cholesterol, mTOR and facultative stem cells: new regulators of bone catch-up growth
   Alberto ROSELLO DIEZ, Australian Regenerative Medicine Institute, Monash University, Clayton, Australia
   Career Development Award 2019

145. Discovery of distinct ribosomes and their contribution to human health, disease and aging
   Daphna ROTHSCHILD BUP, Dept. of Genetics, Stanford University, USA
   Long-Term Fellow 2020

146. Investigating adult brain reinnervation using a biohybrid retinal ganglion cell multielectrode array
   Tobias RUFF, Laboratory of Biosensors and Bioelectronics, Institute for Biomedical Engineering, ETZ F82, ETH Zurich, Switzerland
   Long-Term Fellow 2020

147. Identifying the function of FOXP2 assemblies during neural crest differentiation and implications for human speech
   Shady SAAD, Dept. of Chemical and Systems Biology, Stanford University, USA
   Long-Term Fellow 2018

148. Mechanisms of cellular reprogramming in cnidarian whole body regeneration
   Miguel SALINAS SAAVEDRA, Centre of Chromosomal Biology / Uri Frank Laboratory, National University of Ireland, Galway, Ireland
   Long-Term Fellow 2020

149. Exploring de novo functionalities in a resurrected ancestral TIM-barrel
   Jose Manuel SANCHEZ RUIZ, Dept. of Physical Chemistry, Faculty of Sciences, University of Granada, Spain
   Program Grant 2017

150. MIDI4MITO: midichloria mitochondrii, unique intramitochondrial bacterium and novel tool to explore mitochondria
   Davide SASSERA, Dept. of Biology and Biotechnology, University of Pavia, Italy
   Young Investigator Grant 2017
151. Aster repulsion drives short-ranged ordering in the Drosophila syncytial blastoderm
   Timothy SAUNDERS, Mechanobiology Institute and Dept. of Biological Sciences, National
   University of Singapore, Singapore
   Young Investigator Grant 2016

152. Multiple memories can be simultaneously reactivated during sleep as effectively as a single
   memory
   Eitan SCHCHETMAN-DRAYMAN, Dept. of Psychology, Northwestern University, Evanston, USA
   Long-Term Fellow 2017

153. Why don’t plants get sunburn?
   Gabriela SCHLAU-COHEN, Dept. of Chemistry, Massachusetts Institute of Technology,
   Cambridge, USA
   Young Investigator Grant 2017

154. Coordination of mitochondrial homeostasis with cell size
   Kurt SCHMOLLER, Institute of Functional Epigenetics, Helmholtz Zentrum München GMBH,
   Neuherberg, Germany
   Career Development Award 2019

155. Unraveling phosphatidylethanolamine transport and metabolism by combining chemistry
   and biology tools
   Clémence SIMON, Dept. of Biochemistry, University of Geneva, Switzerland
   Long-Term Fellow 2020

156. Biomechanics of rapid plant movement
   David SLEBODA, Dept. of Physiology, McGill University, Montreal, Canada
   Long-Term Fellow 2020

157. Interplay of active and thermal fluctuations in biopolymer dynamics
   Andrew J. SPAKOWITZ, Dept. of Chemical Engineering, Stanford University, USA
   Program Grant 2020

158. Modulation of single cell volume and mass growth by intrinsic and extrinsic factors
   Nishit SRIVASTAVA, UMR144/Systems Cell Biology of Cell Polarity and Cell Division, Institut
   Curie, Paris, France
   Long-Term Fellow 2018

159. Quantifying the pairwise fighting behavior of zebrafish in 3D
   Greg STEPHENS, Physics of Living Systems and Molecular Biophysics, Dept. of Physics and
   Astronomy, Vrije Universiteit Amsterdam, the Netherlands
   Program Grant 2016

160. Cellular substrates of complex behavior
   Jeffrey Todd STREELMAN, School of Biological Sciences, Georgia Institute of Technology,
   Atlanta, USA
   Program Grant 2019
161. Intrinsic spatiotemporal dynamics modulate visual responses in the superior colliculus
Anton SUMSER, Dept. of Neuroethology, Institute of Science and Technology Austria,
Klosterneuburg, Austria
Long-Term Fellow 2018

162. Precise temperature manipulation reveals heat hypersensitivity of ryanodine receptor type 1
Madoka SUZUKI, Institute for Protein Research, Osaka University, Japan
Program Grant 2018

163. A new approach to measuring the temperature gradient in nanoscopic volumes of aqueous media
Vadim ZEEB, Cytotechnology Lab, Institute of Theoretical and Experimental Biophysics,
Russian Academy of Sciences, Pushchino, Moscow region, Russia
Program Grant 2018

164. Towards the interface of heterotypic interactions between amyloid-βeta and tau in Alzheimer’s disease
Einav TAYEB-FLIGELMAN, Dept. of Chemistry and Biochemistry and Biological Chemistry,
University of California, Los Angeles, USA
Long-Term Fellow 2018

165. Can T cells form traffic jams?
Johannes TEXTOR, Dept. of Tumour Immunology, Radboud University Medical Center,
Nijmegen, the Netherlands
Program Grant 2020

166. Manipulation of network activity in the spinal cord by single cell stimulation via nanoscale photodiodes
Agnes THALHAMMER, Dept. of Neurobiology - Neuron Physiology and Technology lab,
International School for Advanced Studies (SISSA), Trieste, Italy
Program Grant 2019

167. BONZEB: open source, modular software tools for high resolution zebrafish tracking and analysis
Tod THIELE, Dept. of Biological Sciences, University of Toronto Scarborough, Canada
Young Investigator Grant 2018

168. Compositional identity and robustness of compartmentalized self-reproducing catalytic RNAs
Shashi THUTUPALLI, Simons Centre for the Study of Living Machines, National Centre for Biological Sciences, Tata Institute for Fundamental Research, Bangalore, India
Young Investigator Grant 2018

169. Global analysis of protein folding stability using cDNA display
Kotaro TSUBOYAMA, Dept. of Pharmacology, Feinberg School of Medicine, Northwestern University, Chicago, USA
Long-Term Fellow 2020
170. **ScanNet: a geometric deep learning framework for functional annotation of protein structures**  
**Jérôme TUBIANA,** Edmond J. Safra Center for Bioinformatics, Blavatnik School of Computer Science, Tel Aviv University, Israel  
*Cross-Disciplinary Fellow 2019*

171. **Spatio-temporal control over neuronal activity in an innate social behavior circuit**  
**Amit VINOGRAD,** Division of Biology, California Institute of Technology, Pasadena, USA  
*Long-Term Fellow 2019*

172. **Identification of transcribed sequence elements that govern transcriptional output**  
**Hanneke VLAMING,** Dept. of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, USA  
*Long-Term Fellow 2018*

173. **Covalent modification and regulation of proteins by CO₂**  
**David VOCADLO,** Depts. of Molecular Biology & Biochemistry and Chemistry, Simon Fraser University, Burnaby, Canada  
*Program Grant 2020*

174. **Activin signaling regulates the tradeoff between immunity and regeneration in chimeric planarians**  
**Bo WANG,** Dept. of Bioengineering, Stanford University, USA  
*Young Investigator Grant 2019*

175. **3D atomic-scale movies of molecular machines in action**  
**Shimon WEISS,** Dept. of Chemistry and Biochemistry, Dept. of Physiology, University of California, Los Angeles, USA  
*Program Grant 2019*

176. **Rapid evolution of a chromosome four-restricted family of zinc finger genes in zebrafish**  
**Jonathan WELLS,** Dept. of Molecular Biology and Genetics, Cornell University, Ithaca, USA  
*Long-Term Fellow 2019*

177. **Investigating biological solar panels using surface chemistry techniques**  
**Mary WOOD,** Laboratory of NanoBiotechnology, École Polytechnique Fédérale de Lausanne, Switzerland  
*Cross-Disciplinary Fellow 2019*

178. **Deconvolving multiplexed histone modifications in single cells**  
**Jake YEUNG,** A. van Oudenaarden Laboratory, Hubrecht Institute for Developmental Biology and Stem Cell Research, Utrecht, the Netherlands  
*Long-Term Fellow 2019*
Poster session 4 - alumni posters: Thursday, July 8 (12:25–13:30 CEST)

179. Cholinergic MECP2 expression enables whole-brain network transitions by arousal
   Pietro ARTONI, Dept. of Neurobiology, Boston Children’s Hospital, USA
   Cross-Disciplinary Fellow 2015

180. Cell number variation in sensory neurons shapes olfactory perception
   Thomas AUER, Center for Integrative Genomics, University of Lausanne, Switzerland
   Long-Term Fellow 2015

181. Collective behavior emerges from genetically controlled simple behavioral motifs in zebrafish
   Armin BAHL, Dept. of Molecular and Cellular Biology, University of Konstanz, Germany
   Long-Term Fellow 2016

182. Cargo transport by treadmilling FtsZ cytoskeleton
   Natalia BARANOVA, Institute of Science and Technology Austria (IST Austria), Klosterneuburg, Austria
   Long-Term Fellow 2016

183. FLYPAD: dissecting the complex structure of feeding to identify the underlying mechanisms
   Rory BERESFORD, Champalimaud Research, Fundacao Champalimaud, Lisbon, Portugal
   Program Grant 2012

184. DNA nanotechnology based emerging technologies for biological and biomedical applications
   Dhiraj Devidas BHATIA, Dept. of Biological Engineering, Indian Institute of Technology
   Gandhinagar, India
   Long-Term Fellow 2014

185. Human X chromosome reactivation: chromatin and transcriptional dynamics during human pluripotent reprogramming
   Irene CANTONE, Division of Epigenetics, University of Naples Federico II, Naples, Italy
   Long-Term Fellow 2010

186. Immature olfactory sensory neurons provide behaviorally useful sensory input to the olfactory bulb
   Claire CHEETHAM, Dept. of Biological Sciences, University of Pittsburgh, USA
   Long-Term Fellow 2011

187. Towards the computational design of genetically encodable nanomachines
   Alexis COURBET, Dept. of Biochemistry, University of Washington, Seattle, USA
   Long-Term Fellow 2016

188. Real-time monitoring of feeding and other activities in aphids by laser speckle contrast imaging
   Martin DRUCKER, Equipe ViVe, INRAE, UMR 1131 SVQV, Colmar, France
   Program Grant 2015
189. An ectopic cervical thymus and no thymic involution until midlife in naked mole-rats  
Stephan EMMRICH, University of Rochester, USA  
Long-Term Fellow 2016

190. Nutrient levels and trade-offs control diversity in a model seasonal ecosystem  
Amir EREZ, Center for the Physics of Biological Function, Hebrew University of Jerusalem, Israel  
Cross-Disciplinary Fellow 2014

191. Towards a physics of living materials  
Sebastian FUERTHAUER, Center for Computational Biology, CCB, Flatiron Institute, New York, USA  
Cross-Disciplinary Fellow 2014

192. Evolutionary repairing DNA replication  
Marco FUMASONI, Dept. of Molecular and Cellular Biology / Murray Lab., Instituto Gulbenkian de Ciência, Oeiras, Portugal  
Long-Term Fellow 2016

193. Wild animal oral microbiomes reflect the history of human antibiotics use  
Katerina GUSCHANSKI, Dept. of Ecology and Genetics/Animal Ecology, Institute of Evolutionary Biology, School of Biological Sciences, University of Edinburgh, UK  
Long-Term Fellow 2011

194. Nucleosome induced homology recognition in chromatin  
Jonathan G. HEDLEY, Dept. of Chemistry, Imperial College London, UK  
Program Grant 2010

195. Flamingo: putting advanced microscopy in the hands of biologists  
Jan HUISKEN, Dept. of Medical Engineering, Morgridge Institute for Research, Madison, USA  
Cross-Disciplinary Fellow 2006

196. Characterizing the roles of cir homer1 in synaptic plasticity  
Pak Kan Jacque IP, Sur Laboratory, The Chinese University of Hong Kong, Hong Kong  
Long-Term Fellow 2014

197. New binding partners to cyanobacteriochromes for optogenetic applications  
Jaewan JANG, Dept. of Chemistry, University of Toronto, Canada  
Long-Term Fellow 2011

198. Individual differences in zebrafish exploratory behavior are influenced by strain and sex  
Justin KENNEY, Program in Neurosciences and Mental Health, Wayne State University, Detroit, USA  
Long-Term Fellow 2014

199. Localized phosphorylation of RNA polymerase II by G1 cyclin-CDK promotes cell cycle entry  
Mardo KOIVOMAGI, Dept. of Biology, Stanford University, East Palo Alto, USA  
Long-Term Fellow 2014
200. **Metabolic control of DNA methylation in naive pluripotent cells**  
*Graziano MARTELLO*, Dept. of Molecular Medicine, University of Padova, Italy  
*Long-Term Fellow 2010*

201. **Phase separation of synapsin, alpha-synuclein and synaptic vesicles**  
*Dragomir MILOVANOVIC*, Molecular Neuroscience, German Center for Neurodegenerative Diseases (DZNE), Berlin, Germany  
*Long-Term Fellow 2016*

202. **Exploring the efficacy of naturally occurring biflavone based antioxidants towards the inhibition of the SARS-CoV-2 spike glycoprotein mediated membrane fusion**  
*Samiran MONDAL*, Dept. of Chemistry, Rammohan College, Kolkata, India  
*Cross-Disciplinary Fellow 2012*

203. **Signalling mechanisms involved in the activity-dependent modulation of the slow afterhyperpolarising current, SIAHP, in hippocampal neurons**  
*Paola PEDARZANI*, UCL Neuroscience, Physiology and Pharmacology, University College London, UK  
*Program Grant 2010*

204. **A limbic circuit selectively linking active escape to food suppression**  
*Estefania PEREIRA CARDOSO AZEVEDO*, Laboratory of Molecular Genetics, The Rockefeller University, New York, USA  
*Long-Term Fellow 2015*

205. **Cortical actin cytoskeleton organization and dynamics modulate endothelial cell mechanoresponse to haemodynamic forces**  
*Li-Kun PHNG*, Laboratory for Vascular Morphogenesis, RIKEN Center for Biosystems Dynamics Research, Kobe, Japan  
*Long-Term Fellow 2010*

206. **P-MAZE: an automatized flexible platform for navigation and memory studies in mice**  
*Juan PABLO QUINTANILLA*, Dept. of Functional & Systems Neurobiology, Instituto Cajal CSIC, Madrid, Spain  
*Program Grant 2013*

207. **A colonial chordate, Botryllus schlosseri, as a model for mammalian hematopoietic and immune systems**  
*Benyamin ROSENTAL*, Dept. of Microbiology, Immunology, and Genetics, Regenerative Medicine and Stem Cell Research Center, Faculty of Health Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel  
*Long-Term Fellow 2014*

208. **Immuno-saber: highly multiplexed and sensitive in situ protein imaging with signal amplification**  
*Sinem SAKA*, Genome Biology Unit, EMBL, Heidelberg, Germany  
*Long-Term Fellow 2016*
209. Deep subsurface microbial community structure response to fluid residence time and physical substrate composition  
Haley SAPERS, California Institute of Technology, Pasadena, USA  
Cross-Disciplinary Fellow 2016

210. Genome-wide survey of mutations influencing protein abundances in yeast  
Olga SCHUBERT, Dept. of Human Genetics / Kruglyak Lab., University of California, Los Angeles, USA  
Long-Term Fellow 2016

211. Laser-assisted electron microscopy: the laser phase plate and beyond  
Osip SCHWARTZ, Weizmann Institute of Science, Rehovot, Israel  
Cross-Disciplinary Fellow 2016

212. Coexistence and extinction due to surfing phage infections in a spatially expanding bacterial colony  
Godwin STEPHENSON, Simons Centre for the Study of Living Machines, National Centre for Biological Sciences, Bangalore, India  
Cross-Disciplinary Fellow 2012

213. Programming multicellular patterns with synthetic cell-cell signaling  
Satoshi TODA, Nano Life Science Institute, Kanazawa University, Japan  
Long-Term Fellow 2016

214. The gut microbiota of environmentally enriched mice regulates visual cortical plasticity  
Paola TOGNINI, Laboratory of Biology, University of Pisa, Italy  
Long-Term Fellow 2013

215. Shear force activation of nociceptors underlies mechanical nociception  
Yang XIANG, Dept. of Neurobiology, University of Massachusetts Medical School, Worcester, USA  
Young Investigator Grant 2014

216. Supercoiling and looping promote DNA base accessibility and coordination among distant sites  
Lynn E. ZECHIEDRICH, Dept. of Molecular Virology and Microbiology, Biochemistry, Pharmacology, Baylor College of Medicine, Houston, USA  
Program Grant 2010

217. Shedding light onto the structural secrets inside pluripotent stem cells in real-time  
Jennifer ZENKER, Australian Regenerative Medicine Institute (ARMI), Monash University, Clayton, Australia  
Long-Term Fellow 2015