



HFSP AWARDS 2016

LONG-TERM FELLOWSHIPS

as approved by the Board of Trustees (March 18, 2016)

AHLQVIST Kati FINLAND	From	Research Program of Molecular Neurology University of Helsinki FINLAND	<i>Deciphering the mitochondrial fingerprint of hematopoietic stem cell aging</i>
	To	Children's Research Institute University of Texas Southwestern Medical Center Dallas USA	Supervisor: MORRISON Sean
AST Tslil FRANCE/ISRAEL	From	Department of Molecular Genetics The Weizmann Institute of Science Rehovot ISRAEL	<i>Dissecting intracellular mitochondrial heterogeneity</i>
	To	Department of Molecular Biology The Broad Institute of MIT and Harvard Cambridge USA	Supervisor: MOOTHA Vamsi
AVINER Ranen ISRAEL	From	Department of Cell Research and Immunology Tel Aviv University ISRAEL	<i>Remodeling of host protein synthesis machinery by Dengue Virus</i>
	To	Department of Biology Stanford University USA	Supervisor: FRYDMAN Judith
BAHL Armin GERMANY	From	Department of Systems and Computational Neurobiology MPI of Neurobiology Martinsried GERMANY	<i>Neural networks for action selection under sensory uncertainty in larval zebrafish</i>
	To	Department of Molecular and Cellular Biology Harvard University Cambridge USA	Supervisor: ENGERT Florian
BARANOVA Natalia UKRAINE	From	Biosurfaces Unit CIC biomaGUNE San Sebastian SPAIN	<i>Reconstitution of bacterial cell wall synthesis</i>
	To	Life Sciences Department IST Austria Klosterneuburg AUSTRIA	Supervisor: LOOSE Martin

<p>BEN-YAKOV Aya ISRAEL</p>	From	<p>Department of Neurobiology Weizmann Institute of Science Rehovot ISRAEL</p>	<p><i>Building blocks of episodic memory: how boundless experience is parsed into discrete events</i></p>
	To	<p>Cognition and Brain Sciences Unit Medical Research Council Cambridge UK</p>	<p>Supervisor: HENSON Richard</p>
<p>BLOOM- ACKERMANN Zohar ISRAEL/USA</p>	From	<p>Department of Molecular Genetics Weizmann Institute of Science Rehovot ISRAEL</p>	<p><i>Does cell-to-cell variability dictate the outcome of <i>M. tuberculosis</i> infection?</i></p>
	To	<p>The Broad Institute of MIT and Harvard Cambridge USA</p>	<p>Supervisor: HUNG Deborah</p>
<p>BOTELHO Joao Francisco BRAZIL</p>	From	<p>Department of Anatomy with Radiology University of Auckland NEW ZEALAND</p>	<p><i>The evolution of skeletal development in the transition from dinosaurs to birds</i></p>
	To	<p>Department of Geology and Geophysics Yale University New Haven USA</p>	<p>Supervisor: BHULLAR Anjan</p>
<p>CHABAUD Melanie FRANCE</p>	From	<p>Immunity and Cancer Institut Curie Paris FRANCE</p>	<p><i>Antigen-induced T cell arrest: the role of membrane tension</i></p>
	To	<p>EMBL Australia Node in Single Molecule Science University of New South Wales Sydney AUSTRALIA</p>	<p>Supervisor: GAUS Katharina</p>
<p>CHAIGNE Agathe FRANCE</p>	From	<p>CIRB Collège de France Paris FRANCE</p>	<p><i>Mechanical constraints and embryonic stem cell division</i></p>
	To	<p>MRC Laboratory for Molecular Cell Biology University College London UK</p>	<p>Supervisor: PALUCH Ewa</p>

<p>COURBET Alexis FRANCE</p>	From	<p>CNRS University of Montpellier FRANCE</p>	<p><i>A computational approach to designing self-assembling and programmable protein nanorobots</i></p>
	To	<p>Department of Biochemistry, Biomolecular Structure and Design University of Washington Seattle USA</p>	<p>Supervisor: BAKER David</p>
<p>DA FONSECA PEREIRA Diogo PORTUGAL</p>	From	<p>Instituto de Medicina Molecular Lisbon PORTUGAL</p>	<p><i>The effect of ethanol metabolism on the gut microbiota and the immune system</i></p>
	To	<p>Department of Immunology and Infectious Diseases Harvard T.H. Chan School of Public Health Boston USA</p>	<p>Supervisor: GARRETT Wendy</p>
<p>DEMERS Jean-Philippe CANADA</p>	From	<p>Department of Molecular Biophysics Leibniz-Institut für Molekulare Pharmakologie Berlin GERMANY</p>	<p><i>Structure and heterogeneity of glutamate receptors by cryo-electron tomography and solid-state NMR</i></p>
	To	<p>Laboratory of Cell Biology NIH-NCI Bethesda USA</p>	<p>Supervisor: SUBRAMANIAM Sriram</p>
<p>DONA Erika ITALY</p>	From	<p>Cell Biology and Biophysics Unit EMBL Heidelberg GERMANY</p>	<p><i>Developmental genetic basis and functional significance of sexually dimorphic circuits</i></p>
	To	<p>Division of Neurobiology MRC Laboratory of Molecular Biology Cambridge UK</p>	<p>Supervisors: JEFFERIS Gregory and LOGAN Darren</p>
<p>EASTWOOD Michael CANADA</p>	From	<p>Dept. of Molecular Genetics University of Toronto CANADA</p>	<p><i>Exploring the mitochondria of germline stem cells</i></p>
	To	<p>Division of Basic Sciences Fred Hutchinson Cancer Research Center Seattle USA</p>	<p>Supervisor: PRIESS James</p>

EDWARDSON Thomas UK	From	Department of Chemistry McGill University Montreal CANADA	<i>Engineered protein superstructures for encapsidation of nucleic acid therapeutics</i>
	To	Laboratory of Organic Chemistry ETH Zurich SWITZERLAND	Supervisor: HILVERT Donald
EMMRICH Stephan GERMANY	From	Department of Pediatric Hematology and Oncology Hannover Medical School GERMANY	<i>Probing novel tumor suppressor mechanisms in naked mole rats to engineer tumor resistance in mice</i>
	To	Department of Biology University of Rochester USA	Supervisor: GORBUNOVA Vera
FANG Neng Nancy CHINA	From	Dept. of Biochemistry University of British Columbia Vancouver CANADA	<i>Guiding in vitro engineering of cerebral organoids through single cell in situ epigenomic profiling</i>
	To	Department of Genetics Harvard Medical School Boston USA	Supervisor: CHURCH George
FINKELSTEIN Arseny ISRAEL	From	Department of Neurobiology Weizmann Institute of Science Rehovot ISRAEL	<i>Deciphering the neural basis of sensory-motor learning in cortical networks</i>
	To	Howard Hughes Medical Institute Janelia Farm Research Campus Ashburn USA	Supervisor: SVOBODA Karel
FUMASONI Marco ITALY	From	DNA Repair Laboratory FIRC Institute of Molecular Oncology Milan ITALY	<i>Experimentally evolving biological novelty during adaptive radiation of budding yeast</i>
	To	Department of Molecular and Cellular Biology Harvard University Cambridge USA	Supervisor: MURRAY Andrew

<p>GAMEIRO GUERREIRO Paulo PORTUGAL</p>	From	<p>Department of Chemical Biology and Molecular Pharmacology Harvard Medical School Boston USA</p>	<p><i>Metabolic control of RNA-protein and RNA-RNA interactions in cellular transformation</i></p>
	To	<p>Department of Molecular Neuroscience University College London UK</p>	<p>Supervisor: ULE Jernej</p>
<p>GROSSIER Jean-Philippe FRANCE</p>	From	<p>Cell Biology Institut Curie Paris FRANCE</p>	<p><i>Building retinotopy in the Drosophila optic lobe</i></p>
	To	<p>Department of Biology New York University USA</p>	<p>Supervisor: DESPLAN Claude</p>
<p>HABERLE Vanja CROATIA</p>	From	<p>MRC Clinical Sciences Centre Imperial College London UK</p>	<p><i>Sequence-encoded enhancer and core promoter activities and specificities in human</i></p>
	To	<p>IMP Vienna AUSTRIA</p>	<p>Supervisor: STARK Alexander</p>
<p>HAN Seungmin KOREA</p>	From	<p>Division of Integrative Biosciences and Biotechnology Pohang University of Science and Technology KOREA</p>	<p><i>A systems approach to the role of quiescent stomach stem cells in homeostasis and regeneration</i></p>
	To	<p>Wellcome Trust - MRC Cambridge Stem Cell Institute University of Cambridge UK</p>	<p>Supervisor: KOO Bon-Kyoung</p>
<p>HASLINGER Kristina GERMANY</p>	From	<p>Dept. of Biomolecular Mechanisms MPI for Medical Research Heidelberg GERMANY</p>	<p><i>Fermentative production of plant secondary metabolites in bacterial hosts</i></p>
	To	<p>Dept. of Chemical Engineering MIT Cambridge USA</p>	<p>Supervisor: PRATHER Kristala</p>

HOVESTADT Volker GERMANY	From	Division of Molecular Genetics German Cancer Research Center Heidelberg GERMANY	<i>Single-cell characterization of glioblastoma differentiation hierarchies</i>
	To	The Broad Institute of MIT and Harvard & Massachusetts General Hospital Harvard Medical School Boston USA	Supervisor: BERNSTEIN Bradley
HUSTEDT Nicole GERMANY	From	FMI Basel SWITZERLAND	<i>Understanding how mitotic DNA double-strand break repair inhibition maintains genome stability</i>
	To	The Lunenfeld-Tanenbaum Research Institute Mount Sinai Hospital Toronto CANADA	Supervisor: DUROCHER Daniel
KARASOV Talia USA	From	Department of Ecology and Evolution University of Chicago USA	<i>The population genomics of pathogen spread in natural Arabidopsis thaliana populations</i>
	To	Department of Molecular Biology of Plants and Animals MPI for Developmental Biology Tübingen GERMANY	Supervisor: WEIGEL Detlef
KARIGO Tomomi JAPAN	From	Department of Biological Sciences The University of Tokyo JAPAN	<i>The role of oxytocin and vasopressin in the neural circuit of aggressive behaviors</i>
	To	Division of Biology and Biological Engineering Caltech Pasadena USA	Supervisor: ANDERSON David
KEPTEN Eldad ISRAEL	From	Physics Department Bar Ilan University Ramat Gan ISRAEL	<i>Live cell imaging of X chromosome Inactivation</i>
	To	Mammalian Developmental Epigenetics Group Institut Curie Paris FRANCE	Supervisor: HEARD Edith

<p>KÖBERLIN Marielle GERMANY</p>	From	<p>CeMM Research Center for Molecular Medicine Austrian Academy of Sciences Vienna AUSTRIA</p>	<p><i>Sensing in motion: identifying the spatio-temporal metabolic switch in collective cell migration</i></p>
	To	<p>Department of Chemical and Systems Biology Stanford University USA</p>	<p>Supervisor: MEYER Tobias</p>
<p>LAUMER Christopher USA</p>	From	<p>Dept. of Organismic and Evolutionary Biology Harvard University Cambridge USA</p>	<p><i>Dissecting inter- and intra- individual germline mutational heterogeneity with single cell genomics</i></p>
	To	<p>Sanger Institute-EBI Single-Cell Genomics Centre Wellcome Trust Sanger Institute & the EMBL-European Bioinformatics Institute, Hinxton UK</p>	<p>Supervisor: VOET Thierry</p>
<p>LEVENTHAL Gabriel SWITZERLAND/USA</p>	From	<p>Institute of Integrative Biology ETH Zurich SWITZERLAND</p>	<p><i>Studying the evolutionary adaptation of ecological interaction networks</i></p>
	To	<p>Dept. of Civil and Environmental Engineering MIT Cambridge USA</p>	<p>Supervisor: CORDERO Otto</p>
<p>LEVO Michal ISRAEL</p>	From	<p>Department of Computer Science and Applied Mathematics Weizmann Institute of Science Rehovot ISRAEL</p>	<p><i>Uncovering regulatory dynamics in living embryos; from enhancer looping to transcription bursting</i></p>
	To	<p>Lewis-Sigler Institute for Integrative Genomics Princeton University USA</p>	<p>Supervisor: GREGOR Thomas</p>
<p>LU Li CHINA</p>	From	<p>Kavli Institute for Systems Neuroscience Norwegian University of Science and Technology, Trondheim NORWAY</p>	<p><i>Vestibular function in spatial navigation</i></p>
	To	<p>Department of Neuroscience Baylor College of Medicine Houston USA</p>	<p>Supervisor: ANGELAKI Dora</p>

<p>LUO Jinhong CHINA</p>	From	Acoustic and Functional Ecology Group Max Planck Institute for Ornithology Munich GERMANY	<i>Neural mechanisms for audio-vocal integration in freely behaving bats</i>
	To	Department of Psychological and Brain Sciences Johns Hopkins University Baltimore USA	Supervisor: MOSS Cynthia
<p>MACULINS Timurs LATVIA/UK</p>	From	High-throughput Screening Centre, Discovery Sciences AstraZeneca Macclesfield UK	<i>Dynamic host-pathogen interactions: learning from the invaders</i>
	To	Institute of Biochemistry II Goethe University Frankfurt GERMANY	Supervisor: DIKIC Ivan
<p>MILOVANOVIC Dragomir SERBIA</p>	From	Department of Neurobiology MPI for Biophysical Chemistry Göttingen GERMANY	<i>Cholesterol trafficking at ER-plasma membrane contacts by a novel family of lipid binding proteins</i>
	To	Department of Cell Biology Yale University New Haven USA	Supervisor: DE CAMILLI Pietro
<p>MOK Sachel SINGAPORE</p>	From	School of Biological Sciences Nanyang Technological University SINGAPORE	<i>Defining the genetic basis of piperazine resistance in <i>P. falciparum</i> to support malaria elimination</i>
	To	Department of Microbiology and Immunology Columbia University New York USA	Supervisor: FIDOCK David
<p>MUNJAL Akankshi INDIA</p>	From	Institut de Biologie du Développement de Marseille Université Aix-Marseille FRANCE	<i>Role of tissue mechanics and patterning in the morphogenesis of the zebrafish semicircular canals</i>
	To	Department of Systems Biology Harvard Medical School Boston USA	Supervisor: MEGASON Sean

<p>MUNZ Martin GERMANY</p>	<p>From</p>	<p>Department of Neurology and Neurosurgery McGill University Montreal CANADA</p>	<p><i>The role of transient circuits in cortical development</i></p>
	<p>To</p>	<p>Department of Neurobiology FMI Basel SWITZERLAND</p>	<p>Supervisor: ROSKA Botond</p>
<p>NAGANATHAN Sundar INDIA</p>	<p>From</p>	<p>Biotechnology Center Technical University Dresden GERMANY</p>	<p><i>Emergence of bilaterally symmetric somites</i></p>
	<p>To</p>	<p>Department of Cell and Developmental Biology UCL and The Francis Crick Institute London UK</p>	<p>Supervisor: OATES Andrew</p>
<p>OBATA Yuuki JAPAN</p>	<p>From</p>	<p>The Institute of Medical Science The University of Tokyo JAPAN</p>	<p><i>Programming of intestinal neural networks by the microbiota-immune system axis</i></p>
	<p>To</p>	<p>Mill Hill Laboratory The Francis Crick Institute London UK</p>	<p>Supervisors: PACHNIS Vassilis and STOCKINGER Brigitta</p>
<p>OKUDA Satohiro JAPAN</p>	<p>From</p>	<p>Institute of Transformative Bio-Molecules Nagoya University JAPAN</p>	<p><i>Molecular mechanism for plant developmental control by CRINKLY-type membrane receptors</i></p>
	<p>To</p>	<p>Department of Botany and Plant Biology University of Geneva SWITZERLAND</p>	<p>Supervisor: HOTHORN Michael</p>
<p>PARDI Maria Belen ARGENTINA/ITALY</p>	<p>From</p>	<p>Laboratory of Neuronal Circuits Instituto de Investigación en Biomedicina de Buenos Aires CONICET ARGENTINA</p>	<p><i>Non-specific thalamic afferents to auditory cortex layer 1 in learning and memory</i></p>
	<p>To</p>	<p>Neocortical Circuits Laboratory MPI for Brain Research Frankfurt GERMANY</p>	<p>Supervisor: LETZKUS Johannes</p>

PARTHASARATHY Srinivas INDIA	From	Institute for Cell and Neurobiology Charite-University Berlin GERMANY	<i>Unbiased identification of new mediators of sex hormone signalling and transport</i>
	To	Department of Anatomy UC San Francisco USA	Supervisors: SHAH Nirao and YAMAMOTO Keith
PETERS Andrew USA	From	Neurosciences Graduate Program UC San Diego La Jolla USA	<i>Corticostriatal interactions during visually-guided behavior</i>
	To	Institute of Ophthalmology University College London UK	Supervisors: CARANDINI Matteo and HARRIS Kenneth
PLESA Calin CANADA/ROMANIA	From	Department of Bionanoscience Delft University of Technology THE NETHERLANDS	<i>Engineering novel signalling pathways in human cells</i>
	To	Department of Chemistry and Biochemistry UC Los Angeles USA	Supervisor: KOSURI Sriram
POPOVIC Doris CROATIA	From	Institute for Biochemistry Goethe University Medical School Frankfurt am Main GERMANY	<i>Investigation of mechanisms that regulate spatial patterning and local translation of mRNAs</i>
	To	Institute of Molecular Life Sciences University of Zurich SWITZERLAND	Supervisor: PELKMANS Lucas
SAAVEDRA Pedro PORTUGAL	From	Institute of Molecular and Cell Biology A * Star SINGAPORE	<i>The role of autophagy and the ubiquitin-proteasome system in muscle wasting of Drosophila</i>
	To	Department of Genetics Harvard Medical School Boston USA	Supervisor: PERRIMON Norbert

<p>SAKA Sinem TURKEY</p>	From	<p>Department of Neuro and Sensory Physiology University of Goettingen GERMANY</p>	<p><i>Multiplexed super-resolution PAINTing of chromatin organization and epigenetics for specific genes</i></p>
	To	<p>Wyss Institute for Biologically Inspired Engineering Harvard Medical School Boston USA</p>	<p>Supervisors: YIN Peng and WU Ting</p>
<p>SCHUBERT Olga SWITZERLAND</p>	From	<p>Institute for Molecular Systems Biology ETH Zurich SWITZERLAND</p>	<p><i>Surveying the complete space of genetic loci influencing protein abundance</i></p>
	To	<p>Department of Human Genetics UC Los Angeles USA</p>	<p>Supervisor: KRUGLYAK Leonid</p>
<p>SCOTT Niv ISRAEL</p>	From	<p>Department of Neurobiology Weizmann Institute of Science Rehovot ISRAEL</p>	<p><i>Defining 3D genomic interactions and chromatin structures that initiate and drive tumorigenesis</i></p>
	To	<p>Molecular and Cell Biology Laboratory The Salk Institute for Biological Studies San Diego USA</p>	<p>Supervisor: O'SHEA Clodagh</p>
<p>SERRA MARQUES Andrea PORTUGAL</p>	From	<p>Department of Biology Utrecht University THE NETHERLANDS</p>	<p><i>Probing the relationship between mammalian spindle pole mechanics, architecture and function</i></p>
	To	<p>Department of Cellular and Molecular Pharmacology UC San Francisco USA</p>	<p>Supervisors: VALE Ronald and DUMONT Sophie</p>
<p>SIDDLE Katherine UK</p>	From	<p>Human Evolutionary Genetics Laboratory Institut Pasteur Paris FRANCE</p>	<p><i>Characterizing viral and host factors important in acute febrile infection in Senegal</i></p>
	To	<p>Department of Organismic and Evolutionary Biology Harvard University Cambridge USA</p>	<p>Supervisor: SABETI Pardis</p>

SRIVATSA Swathi INDIA	From	Institute for Cell and Neurobiology Charite-University Berlin GERMANY	<i>Mechanisms of satiety through the vagus nerve</i>
	To	Department of Cell Biology Harvard Medical School Boston USA	Supervisor: LIBERLES Stephen
SYMMONS Orsolya HUNGARY/UK	From	Laboratory of Molecular and Cell Biology Ecole Normale Supérieure de Lyon FRANCE	<i>Revealing the mechanisms governing random monoallelic expression through allele-specific RNA FISH</i>
	To	Department of Engineering University of Pennsylvania Philadelphia USA	Supervisor: RAJ Arjun
TAYLOR Martin UK	From	Clare Hall Laboratory The Francis Crick Institute London UK	<i>Mechanisms of cellular responses to replication stress relevant to polycystic kidney diseases</i>
	To	Department of Chemical and Systems Biology Stanford University USA	Supervisor: CIMPRICH Karlene
THACKER Vivek INDIA	From	Department of Physics University of Cambridge UK	<i>Lung-on-a-chip microfluidics for studying bacterial pathogenesis</i>
	To	Department of Life Sciences Swiss Federal Institute of Technology Lausanne SWITZERLAND	Supervisor: MCKINNEY John
TODA Satoshi JAPAN	From	Department of Medical Chemistry Kyoto University JAPAN	<i>Synthetic morphogenesis: exploring multicellular self-organization using engineered cell signaling</i>
	To	Department of Cellular and Molecular Pharmacology UC San Francisco USA	Supervisor: LIM Wendell

<p>TSUTSUMI Naotaka JAPAN</p>	From	Department of Biophysics Kyoto University JAPAN	<i>Structural visualization of the activating full-length single transmembrane receptor complexes</i>
	To	Department of Molecular and Cellular Physiology Stanford University USA	Supervisor: GARCIA Christopher
<p>WAGENBLAST Elvin GERMANY</p>	From	Cold Spring Harbor Laboratory USA	<i>A cellular and molecular framework to understand human pre-leukemic mutations in AML</i>
	To	Princess Margaret Cancer Centre University Health Network Toronto CANADA	Supervisor: DICK John
<p>WEICK Eva-Maria GERMANY</p>	From	Gurdon Institute University of Cambridge UK	<i>Biochemical and structural analysis of the human RNA exosome and its interaction partners</i>
	To	Structural Biology Program Memorial Sloan Kettering Cancer Center New York USA	Supervisor: LIMA Christopher
<p>WUESEKE Oliver GERMANY</p>	From	Dept. of Cell Division MPI of Molecular Cell Biology and Genetics Dresden GERMANY	<i>Modelling cortical neuronal network activity in neurological disorders in human cerebral organoids</i>
	To	Stem Cells and Asymmetric Cell Division IMBA Vienna AUSTRIA	Supervisor: KNOBLICH Jürgen
<p>XU Chengchao CHINA</p>	From	Temasek Life Sciences Laboratory National University of Singapore SINGAPORE	<i>The role of metabolism in rebalancing proteostasis network in plants</i>
	To	Whitehead Institute for Biomedical Research MIT Boston USA	Supervisor: WENG Jing-Ke

<p>XU Fang CHINA</p>	From	<p>Department of Botany University of British Columbia Vancouver CANADA</p>	<p><i>A novel meristem regulation mechanism: signaling from primordia to stem cells in maize</i></p>
	To	<p>Delbruck Laboratory Cold Spring Harbor Laboratory USA</p>	<p>Supervisor: JACKSON David</p>
<p>XUE Jian CHINA</p>	From	<p>Institute of Insect Sciences Zhejiang University Hangzhou CHINA</p>	<p><i>Monitoring the emergence of functional neuronal ensembles during development</i></p>
	To	<p>McGovern Institute for Brain Research MIT Boston USA</p>	<p>Supervisor: LIN Yingxi</p>
<p>YEE Callista CANADA</p>	From	<p>Department of Biology McGill University Montreal CANADA</p>	<p><i>How to build a multi-dendritic sensory neuron: a reconstitution approach</i></p>
	To	<p>Department of Biology Stanford University USA</p>	<p>Supervisor: SHEN Kang</p>
<p>ZHAO Hongtu CHINA</p>	From	<p>Institute of Biophysics Chinese Academy of Sciences Beijing CHINA</p>	<p><i>Structural and mechanistic studies of type 1 protein secretion system in Gram-negative bacteria</i></p>
	To	<p>Laboratory of Membrane Biology and Biophysics Rockefeller University New York USA</p>	<p>Supervisor: CHEN Jue</p>