



HFSP AWARDS 2015

RESEARCH GRANTS

- Program Grants and Young Investigators are listed separately
- The first named for each award is the Principal Investigator
- Nationality is in parentheses when different from country in which the laboratory is located

PROGRAM GRANTS

WildCog: Evolution and local adaptation of cognitive abilities and brain structure in the wild

CHAINE Alexis	Dept. of Evolutionary Ecology Experimental Ecology, CNRS, USR2936, Moulis	FRANCE
MORAND-FERRON Julie	Dept. of Biology University of Ottawa	CANADA
SERRE Thomas	Dept. of Cognitive, Linguistic and Psychological Sciences Brown University, Providence	USA
VERHOYE Marleen	Dept. of Biomedical Sciences/Bio-Imaging lab. University of Antwerp	BELGIUM

Molecular mechanisms of meiotic feedback regulation by the conserved chromosome axis

CORBETT Kevin	Dept. of Cellular and Molecular Medicine UCSD, Ludwig Institute for Cancer Research, La Jolla	USA
HERZOG Franz	Gene Center and Dept. of Biochemistry Ludwig-Maximilians-University, München	GERMANY (AUSTRIA)
TOTH Attila	Molecular Cell Biology Group Faculty of Medicine, TU Dresden	GERMANY (HUNGARY)

Interrogating bacterial social interactions in droplets

DE VISSER Johannes	Lab. of Genetics Wageningen University	THE NETHERLANDS
BIBETTE Jérôme	Lab. of Colloids and Dispersed Materials ESPCI, Paris	FRANCE
BRENNER Naama	Dept. of Chemical Engineering Technion, Haifa	ISRAEL
RAINEY Paul	New Zealand Institute for Advanced Study Massey University, Auckland	NEW ZEALAND

Stabilizing RNA virus vaccine strains by elucidating triggers and mechanisms of recombination

DEKKER Nynke	Dept. of Bionanoscience, Kavli Institute of Nanoscience TU Delft	THE NETHERLANDS
CAMERON Craig	Dept. Biochemistry and Molecular Biology The Pennsylvania State University, University Park	USA
SHIH Shin-Ru	Research Center for Emerging Viral Infections Chang Gung University, Kwei-Shan	TAIWAN

PROGRAM GRANTS

Cellular and biophysical mechanisms of virus-vector interactions mediating disease transmission

DRUCKER Martin	VIP Team INRA, UMR 385 BGPI, Montpellier	FRANCE (GERMANY)
BUTT Hans-Jürgen	Dept. of Physics at Interfaces Max Planck Institute for Polymer Research, Mainz	GERMANY
NG James	Dept. of Plant Pathology and Microbiology University of California, Riverside	USA (SINGAPORE)

RNAi memories: functional genomics of small RNA-mediated epimutations in C. elegans

DUCHAINE Thomas	Dept. of Biochemistry/Goodman Cancer Research Centre McGill University, Montreal	CANADA
MISKA Eric	Gurdon Institute and Dept. of Genetics University of Cambridge	UK (GERMANY)
SAROV Mihail	Dept. of TransgeneOmics Max Planck Institute of Molecular Cell Biology and Genetics, Dresden	GERMANY (BULGARIA)

Deciphering brain oxytocin circuits controlling social behavior

GRINEVICH Valery	Dept. of Neuropeptides DKFZ, University of Heidelberg	GERMANY
BUXBAUM Joseph	Lab. of Molecular Neuropsychiatry The Mount Sinai Medical Center, New York	USA
HANSEL David	Center for Neurophysics, Physiology and Pathology CNRS, Paris Descartes University	FRANCE
WAGNER Shlomo	Dept. of Neurobiology University of Haifa	ISRAEL

Mammalian lipid droplets: a central role in the organismal antibacterial response?

GROSS Steven P.	Dept. of Development and Cell Biology UC Irvine	USA
BOZZA Patricia T.	Lab. of Immunopharmacology Instituto Oswaldo Cruz, Rio de Janeiro	BRAZIL
PARTON Robert	Institute for Molecular Bioscience University of Queensland, Brisbane	AUSTRALIA
POL Albert	Cell compartments and Signaling Group August Pi i Sunyer Biomedical Research Institute (IDIBAPS), Barcelona	SPAIN

PROGRAM GRANTS

Predictive modeling of the impact of vir genes on dispersal within pathogen-vector-host interactions

HOGENHOUT Saskia	Dept. of Cell and Developmental Biology John Innes Centre, Norwich	UK (THE NETHERLANDS)
GROVES Russell	Dept. of Entomology University of Wisconsin, Madison	USA
IMMINK Richard	Dept. of Bioscience/Plant Developmental Systems Wageningen University/Plant Research International, Wageningen	THE NETHERLANDS
MAREE Athanasius	Dept. of Computational and Systems Biology John Innes Centre, Norwich	UK (THE NETHERLANDS)
POSPIESZNY Henryk	Dept. of Virology and Bacteriology Institute of Plant Protection - National Research Institute, Poznan	POLAND

The causes and consequences of sperm mediated non-genetic inheritance

IMMLER Simone	Dept. of Evolutionary Biology/Immler lab Uppsala University	SWEDEN (SWITZERLAND)
CAIRNS Bradley R.	Dept. of Oncological Sciences University of Utah, Huntsman Cancer Institute, Salt Lake City	USA
MUELLER Ferenc	School of Clinical and Experimental Medicine University of Birmingham	UK (HUNGARY)

Evolution of seasonal timers

LOUDON Andrew	Faculty of Life Sciences University of Manchester	UK
BURT David	Division of Genetics and Genomics The Roslin Institute and R(D)SVS, University of Edinburgh, Easter Bush	UK
HAZLERIGG David	Dept. of Arctic and Marine Biology The Arctic University of Norway, University of Tromsø	NORWAY
YOSHIMURA Takashi	National Institute for Basic Biology Okazaki University	JAPAN

PROGRAM GRANTS

Establishing microfluidic cell-free systems for the rapid prototyping of synthetic genetic networks

MAERKL Sebastian	Institute of Bioengineering EPFL, Lausanne	SWITZERLAND (GERMANY)
MURRAY Richard	Dept. of Bioengineering California Institute of Technology, Pasadena	USA

Cooperation strategy and information processing in and between germinal centre reactions

MEYER-HERMANN Michael	Dept. of Systems Immunology Helmholtz Centre for Infection Research (HZI), Braunschweig	GERMANY
DUSTIN Michael	Nuffield Dept. of Orthopaedics, Rheumatology and Mucsculoskeletal Sciences University of Oxford, Headington	UK (USA)
VICTORA Gabriel	Victoria Lab. Whitehead Institute for Biomedical Sciences, Cambridge	USA (BRAZIL)
VINUESA Carola	Dept. of Pathogens and Immunity Australian National University, Canberra	AUSTRALIA

Towards self-reproduction of protocells and minimal cells: evolution versus engineering

NOIREAUX Vincent	School of Physics and Astronomy University of Minnesota, Minneapolis	USA (FRANCE)
LIBCHABER Albert	Laboratory of Experimental Condensed Matter Physics Rockefeller University, New York	USA (FRANCE)
MAEDA Yusuke T.	Dept. of Physics and Astronomy Kyoto University	JAPAN
OTT Albrecht	Dept. of Biological Experimental Physics Universität des Saarlandes, Saarbrücken	GERMANY

Quantifying and predicting the influence of translation kinetics on nascent proteome behavior

O'BRIEN Edward	Dept. of Chemistry Pennsylvania State University, University Park	USA
BUKAU Bernd	Center for Molecular Biology (ZMBH) DKFZ, University of Heidelberg	GERMANY

PROGRAM GRANTS

Revealing bacterial free energy dynamics during loss of viability

PILIZOTA Teuta	School of Biology University of Edinburgh	UK (CROATIA)
BAI Fan	Bidynamic Optical Imaging Center Peking University, Beijing	CHINA
LO Chien-Jung	Physics Dept. National Central University, Jhongli City	TAIWAN

A unified approach for studying adaptation in sensory cortices

PRIEBE Nicholas	Section of Neurobiology University of Texas at Austin	USA
FAIRHALL Adrienne	Dept. of Physiology and Biophysics University of Washington, Seattle	USA (AUSTRALIA)
LAMPL Ilan	Dept. of Neurobiology Weizmann Institute of Science, Rehovot	ISRAEL
NELKEN Israel	Dept. of Neurobiology Hebrew University, Edmond and Lily Safra Center for Brain Sciences, Jerusalem	ISRAEL

Photosynthesis light utilisation dynamics and ion fluxes: making the link

SZABO Ildiko	Dept. of Biology University of Padua	ITALY (HUNGARY)
CHANG Chris	Dept. of Chemistry University of California Berkeley	USA
FINAZZI Giovanni	Plant and Cell Physiology CEA Grenoble	FRANCE (ITALY)
SHIKANAI Toshiharu	Dept. of Botany Kyoto University	JAPAN

Odor-background segregation and source localization using fast olfactory processing

SZYSZKA Paul	Dept. of Biology University of Konstanz	GERMANY
KANZAKI Ryohei	Research Center for Advanced Science and Technology University of Tokyo	JAPAN
NOWOTNY Thomas	School of Engineering and Informatics University of Sussex, Brighton	UK (GERMANY)
SMITH Brian H	School of Life Sciences Arizona State University, Tempe	USA

Molecular patterns of influenza virus envelope adaptation to interspecies transmission

TAMM Lukas	Depts. of Molecular Physiology and Biological Physics University of Virginia, Charlottesville	USA (SWITZERLAND)
GRÜNEWALD Kay	Oxford Particle Imaging Centre University of Oxford The Wellcome Trust Centre for Human Genetics	UK (GERMANY)
VEIT Michael	Institute of Virology Free University Berlin	GERMANY
WENK Markus	Dept. of Biochemistry National University of Singapore	SINGAPORE (SWITZERLAND)

Development of solid-state nano-voltage sensors

WEISS Shimon	Dept. of Chemistry and Biochemistry, Dept. of Physiology University of California, Los Angeles	USA
ENDERLEIN Joerg	III. Institute of Physics Georg August University, Goettingen	GERMANY
ORON Dan	Dept. of Physics of Complex Systems Weizmann Institute, Rehovot	ISRAEL
TRILLER Antoine	Institute of Biology Ecole Normale Supérieure, CNRS - Inserm, Paris	FRANCE

YOUNG INVESTIGATORS

Mechanisms of centrosome biogenesis

GOPALAKRISHNAN Jayachandran	Lab. for Centrosome and Cytoskeleton Biology Center for Molecular Medicine, University of Cologne	GERMANY (INDIA)
LI Haitao	School of Medicine, Dept. of Basic Medical Sciences Tsinghua University, Beijing	CHINA

Deciphering chromatin dynamics during programming and reprogramming of pluripotent cells

GREENLEAF William	Dept. of Genetics Stanford University	USA
HANNA Yaquub	Dept. of Molecular Genetics Weizmann Institute of Science, Rehovot	ISRAEL

Mechanical control of progenitor cell renewal and differentiation during vertebrate limb formation

GROS Jérôme	Dept. of Developmental and Stem Cell Biology Institut Pasteur, Paris	FRANCE
CAMPAS Otger	Dept. of Mechanical Engineering University of California, Santa Barbara	USA (SPAIN)

Quantitative characterization of fratricide in *S. pneumoniae*

KIM Minsu	Dept. of Physics Emory University, Atlanta	USA (KOREA)
HERMSEN Rutger	Biology Dept., Theoretical Biology Division Utrecht University	THE NETHERLANDS

An integrated multi-level investigation of neural codes in sensory processing

KOHL Michael	Dept. of Physiology, Anatomy and Genetics University of Oxford	UK (GERMANY)
KWAG Jeehyun	Neural Computational Lab. Dept. of Brain and Cognitive Engineering Korea University, Seoul	KOREA
RICHARDS Blake	Dept. of Biological Sciences University of Toronto Scarborough	CANADA

YOUNG INVESTIGATORS

Hormone delivery in plants: mechanisms and physiological roles of gibberellic acid transporters

NOUR-ELDIN Hussam Hassan	Dept. of Dynamic Molecular Interactions Copenhagen University, Frederiksberg	DENMARK
KAWATE Toshimitsu	Dept. of Molecular Medicine Cornell University, Ithaca	USA (JAPAN)
SHANI Eilon	Dept. of Molecular Biology and Ecology of Plants Tel Aviv University	ISRAEL

Dissecting the roles of network architecture and parameter fine-tuning in metabolic adaptations

OYARZÚN Diego	Dept. of Mathematics Imperial College London	UK (CHILE)
ZHANG Fuzhong	Dept. of Energy, Environmental and Chemical Engineering Washington University, St. Louis	USA (CHINA)

Interplay of eukaryotic symbionts with gut microbiome and influence on immune-mediated disorders

POMAJBIKOVA Katerina	Institute of Parasitology/Lab. of Parasitic Therapy Biology Centre ASCR v.v.i., Budweis	CZECH REPUBLIC
PARFREY Laura Wegener	Dept. of Botany and Zoology University of British Columbia, Vancouver	CANADA (USA)

Unraveling dynamical coupling between gene expression and cellulosome assembly

TAN Cheemeng	Dept. of Biomedical Engineering University of California Davis	USA (MALAYSIA)
NASH Michael	Dept. of Applied Physics and Center for Nanoscience Ludwig-Maximilians University, Munich	GERMANY (USA)

Adaptive function and evolutionary capacity for a transitory epithelial structure

WANG Yu-Chiun	Lab. for Epithelial Morphogenesis RIKEN Center for Developmental Biology, Kobe	JAPAN (TAIWAN)
KHAN Zia	Dept. of Computer Science University of Maryland, College Park	USA
LEMKE Steffen	Dept. of Zoology University of Heidelberg	GERMANY