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
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)

(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
Jérome
Lab. of Colloïds 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
### Cellular and biophysical mechanisms of virus-vector interactions mediating disease transmission

**DRUCKER**
- **VIP Team**
- **INRA, UMR 385 BGPI, Montpellier**
- **FRANCE**

**BUTT**
- **Dept. of Physics at Interfaces**
- **Max Planck Institute for Polymer Research, Mainz**
- **GERMANY**

**NG**
- **Dept. of Plant Pathology and Microbiology**
- **University of California, Riverside**
- **USA**

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

**DUCHAINE**
- **Dept. of Biochemistry/Goodman Cancer Research Centre**
- **McGill University, Montreal**
- **CANADA**

**MISKA**
- **Gurdon Institute and Dept. of Genetics**
- **University of Cambridge**
- **UK**

**SAROV**
- **Dept. of TransgeneOmics**
- **Max Planck Institute of Molecular Cell Biology and Genetics, Dresden**
- **GERMANY**

### Deciphering brain oxytocin circuits controlling social behavior

**GRINEVICH**
- **Dept. of Neuropeptides**
- **DKFZ, University of Heidelberg**
- **GERMANY**

**BUXBAUM**
- **Lab. of Molecular Neuropsychiatry**
- **The Mount Sinai Medical Center, New York**
- **USA**

**HANSEL**
- **Center for Neurophysics, Physiology and Pathology**
- **CNRS, Paris Descartes University**
- **FRANCE**

**WAGNER**
- **Dept. of Neurobiology**
- **University of Haifa**
- **ISRAEL**

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

**GROSS**
- **Dept. of Development and Cell Biology**
- **UC Irvine**
- **USA**

**BOZZA**
- **Lab. of Immunopharmacology**
- **Instituto Oswaldo Cruz, Rio de Janeiro**
- **BRAZIL**

**PARTON**
- **Institute for Molecular Bioscience**
- **University of Queensland, Brisbane**
- **AUSTRALIA**

**POL**
- **Cell compartments and Signaling Group**
- **August Pi i Sunyer Biomedical Research Institute (IDIBAPS), Barcelona**
- **SPAIN**
**Predictive modeling of the impact of vir genes on dispersal within pathogen-vector-host interactions**

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<th>Department/Institution</th>
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<td>HOGENHOUT</td>
<td>Dept. of Cell and Developmental Biology</td>
<td>UK</td>
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<td>John Innes Centre, Norwich</td>
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<td>IMMINK</td>
<td>Dept. of Bioscience/Plant Development Systems</td>
<td>THE NETHERLANDS</td>
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<td>Richard</td>
<td>Wageningen University/Plant Research International, Wageningen</td>
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<td>MAREE</td>
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<td>POSPIESZNY</td>
<td>Dept. of Virology and Bacteriology</td>
<td>POLAND</td>
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<td>Henryk</td>
<td>Institute of Plant Protection - National Research Institute, Poznan</td>
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**The causes and consequences of sperm mediated non-genetic inheritance**

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<td>Simone</td>
<td>Uppsala University</td>
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<td>CAIRNS</td>
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<tr>
<td>Bradley R.</td>
<td>University of Utah, Huntsman Cancer Institute, Salt Lake City</td>
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<td>MUELLER</td>
<td>School of Clinical and Experimental Medicine</td>
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<tr>
<td>Ferenc</td>
<td>University of Birmingham</td>
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**Evolution of seasonal timers**

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<td>BURT</td>
<td>Division of Genetics and Genomics</td>
<td>UK</td>
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<tr>
<td>David</td>
<td>The Roslin Institute and R(D)SVS, University of Edinburgh, Easter Bush</td>
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<tr>
<td>HAZLERIGG</td>
<td>Dept. of Arctic and Marine Biology</td>
<td>NORWAY</td>
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<tr>
<td>David</td>
<td>The Arctic University of Norway, University of Tromsø</td>
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<tr>
<td>YOSHIMURA</td>
<td>National Institute for Basic Biology</td>
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<tr>
<td>Takashi</td>
<td>Okazaki University</td>
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### Establishing microfluidic cell-free systems for the rapid prototyping of synthetic genetic networks

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<td>MURRAY</td>
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<tr>
<td>Richard</td>
<td>California Institute of Technology, Pasadena</td>
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### Cooperation strategy and information processing in and between germinal centre reactions

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<td>GERMANY</td>
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<td>Michael</td>
<td>Helmholtz Centre for Infection Research (HZI),</td>
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<td>Braunschweig</td>
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<tr>
<td>DUSTIN</td>
<td>Nuffield Dept. of Orthopaedics, Rheumatology and</td>
<td>UK</td>
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<tr>
<td>Michael</td>
<td>Mucsculoskeletal Sciences</td>
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<td></td>
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<td>VICTORA</td>
<td>Victora Lab.</td>
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<tr>
<td>Gabriel</td>
<td>Whitehead Institute for Biomedical Sciences,</td>
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<td>Carola</td>
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### Towards self-reproduction of protocells and minimal cells: evolution versus engineering

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<td>School of Physics and Astronomy</td>
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<td>Vincent</td>
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<td>LIBCHABER</td>
<td>Laboratory of Experimental Condensed Matter</td>
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<td>Yusuke T.</td>
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<td>Albrecht</td>
<td>Universität des Saarlandes, Saarbrücken</td>
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### Quantifying and predicting the influence of translation kinetics on nascent proteome behavior

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<td>O'BRIEN</td>
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<tr>
<td>Edward</td>
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<tr>
<td>BUKAU</td>
<td>Center for Molecular Biology (ZMBH)</td>
<td>GERMANY</td>
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<tr>
<td>Bernd</td>
<td>DKFZ, University of Heidelberg</td>
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</tbody>
</table>
Revealing bacterial free energy dynamics during loss of viability

PILIZOTA
Teuta
School of Biology
University of Edinburgh
(CROATIA)

BAI
Fan
Biodynamic Optical Imaging Center
Peking University, Beijing

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)

LAMPL
Ilan
Dept. of Neurobiology
Weizmann Institute of Science, Rehovot

NELKEN
Israel
Dept. of Neurobiology
Hebrew University, Edmond and Lily Safra Center for Brain Sciences, Jerusalem

Photosynthesis light utilisation dynamics and ion fluxes: making the link

SZABO
Ildiko
Dept. of Biology
University of Padua
(ITALY)

CHANG
Chris
Dept. of Chemistry
University of California Berkeley

FINAZZI
Giovanni
Plant and Cell Physiology
CEA Grenoble
(FRANCE)

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

KANZAKI
Ryohei
Research Center for Advanced Science and Technology
University of Tokyo
(JAPAN)

NOWOTNY
Thomas
School of Engineering and Informatics
University of Sussex, Brighton

SMITH
Brian H
School of Life Sciences
Arizona State University, Tempe
(USA)
Molecular patterns of influenza virus envelope adaptation to interspecies transmission

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<tr>
<td>TAMM</td>
<td>Depts. of Molecular Physiology and Biological Physics, University of Virginia, Charlottesville</td>
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<tr>
<td>Lukas</td>
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<tr>
<td>GRÜNEWALD</td>
<td>Oxford Particle Imaging Centre, University of Oxford, The Wellcome Trust Centre for Human Genetics</td>
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<td>Kay</td>
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<td>VEIT</td>
<td>Institute of Virology, Free University Berlin</td>
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<td>WENK</td>
<td>Dept. of Biochemistry, National University of Singapore</td>
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<td>Michael</td>
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<td>WEISS</td>
<td>Dept. of Chemistry and Biochemistry, Dept. of Physiology, University of California, Los Angeles</td>
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<td>ENDERLEIN</td>
<td>III. Institute of Physics, Georg August University, Goettingen</td>
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<tr>
<td>Joerg</td>
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<tr>
<td>ORON</td>
<td>Dept. of Physics of Complex Systems, Weizmann Institute, Rehovot</td>
<td>ISRAEL</td>
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<td>Dan</td>
<td></td>
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<tr>
<td>TRILLER</td>
<td>Institute of Biology, Ecole Normale Supérieure, CNRS - Inserm, Paris</td>
<td>FRANCE</td>
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<td>Antoine</td>
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</table>
Mechanisms of centrosome biogenesis

**GOPALAKRISHNAN**
Jayachandran
Lab. for Centrosome and Cytoskeleton Biology
Center for Molecular Medicine, University of Cologne
GERMANY

**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**
Yaqub
Dept. of Molecular Genetics
Weizmann Institute of Science, Rehovot
ISRAEL

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

**GROS**
Jérome
Dept. of Developmental and Stem Cell Biology
Institut Pasteur, Paris
FRANCE

**CAMPAS**
Otger
Dept. of Mechanical Engineering
University of California, Santa Barbara
USA

Quantitative characterization of fratricide in *S. pneumoniae*

**KIM**
Minsu
Dept. of Physics
Emory University, Atlanta
USA

**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

**KWAG**
Jeemyun
Neural Computational Lab.
Dept. of Brain and Cognitive Engineering
Korea University, Seoul
KOREA

**RICHARDS**
Blake
Dept. of Biological Sciences
University of Toronto Scarborough
CANADA
Hormone delivery in plants: mechanisms and physiological roles of gibberellic acid transporters

<table>
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<tr>
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<td>NOUR-ELDIN</td>
<td>Dept. of Dynamic Molecular Interactions</td>
<td>DENMARK</td>
</tr>
<tr>
<td>Hussam Hassan</td>
<td>Copenhagen University, Frederiksberg</td>
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<td>KAWATE</td>
<td>Dept. of Molecular Medicine</td>
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<tr>
<td>Toshimitsu</td>
<td>Cornell University, Ithaca</td>
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<td>SHANI</td>
<td>Dept. of Molecular Biology and Ecology of Plants</td>
<td>ISRAEL</td>
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<td>Eilon</td>
<td>Tel Aviv University</td>
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Dissecting the roles of network architecture and parameter fine-tuning in metabolic adaptations

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<tr>
<td>OYARZÚN</td>
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<td>UK</td>
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Interplay of eukaryotic symbionts with gut microbiome and influence on immune-mediated disorders

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<td>Institute of Parasitology/Lab. of Parasitic Therapy</td>
<td>CZECH REPUBLIC</td>
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<td>PARFREY</td>
<td>Dept. of Botany and Zoology</td>
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<tr>
<td>Laura Wegener</td>
<td>University of British Columbia, Vancouver</td>
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Unraveling dynamical coupling between gene expression and cellulosome assembly

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<td>University of California Davis</td>
<td>(MALAYSIA)</td>
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<td>NASH</td>
<td>Dept. of Applied Physics and Center for Nanoscience</td>
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<td>Michael</td>
<td>Ludwig-Maximilians University, Munich</td>
<td>(USA)</td>
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Adaptive function and evolutionary capacity for a transitory epithelial structure

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<td>Lab. for Epithelial Morphogenesis</td>
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<td>RIKEN Center for Developmental Biology, Kobe</td>
<td>(TAIWAN)</td>
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<td>University of Maryland, College Park</td>
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