



HFSP AWARDS 2008

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

Spatial organization of cadherin junctions by dynamic microtubules: an integrated model

AKHMANOVA Anna	Dept. of Cell Biology Erasmus Medical Centre, Rotterdam	THE NETHERLANDS
BROWN Nicholas	Gurdon Institute and Dept. of Physiology, Development and Neurology University of Cambridge	UK (USA)
MALY Ivan	Dept. of Computational Biology University of Pittsburgh School of Medicine	USA (RUSSIA)
YAP Alpha	Dept. of Molecular Cell Biology Institute for Molecular Bioscience University of Queensland, Brisbane	AUSTRALIA

Structure and mechanism of cytoplasmic dynein

BURGESS Stan	Astbury Centre for Structural Molecular Biology University of Leeds	UK
HIGUCHI Hideo	Dept. of Nanomedicine Biomedical Engineering Research Organization Tohoku University, Sendai	JAPAN
KON Takahide	Dept. of Life Sciences Graduate School of Arts and Sciences University of Tokyo	JAPAN
VILFAN Andrej	Dept. of Condensed Matter Physics (F5) J. Stefan Institute, Ljubljana	SLOVENIA

Learning from the unlearnable: probing the architecture of control in tool manipulation

D'AVELLA Andrea	Dept. of Neuromotor Physiology Santa Lucia Foundation, Rome	ITALY
PAI Dinesh	Dept. of Computer Science University of British Columbia, Vancouver	CANADA

Evolutionary implications of virus-encoded gene-silencing suppression

ELENA FITO Santiago F.	Dept. of Evolution and viral variability IBMCP - Institute of Molecular and Cellular Biology of Plants CSIC-UPV, Polytechnic University of Valencia	SPAIN
CHUA Nam-Hai	Dept. of Plant Molecular Biology Rockefeller University, New York	USA (SINGAPORE)
SOLÉ Ricard	Complex Systems Lab. ICREA- Pompeu Fabra University Barcelona Biomedical Research Park	SPAIN

Infrared light for neural stimulation

FRENS Maarten	Dept. of Neuroscience Erasmus Medical Center, Rotterdam	THE NETHERLANDS
JANSEN E. Duco	Dept. of Biomedical Engineering Vanderbilt University, Nashville	USA (THE NETHERLANDS)

Modeling cell fate during Drosophila heart development

FURLONG Eileen	Dept. of Developmental Biology and Gene Expression EMBL, Heidelberg	GERMANY (IRELAND)
HARTENSTEIN Volker	Dept. of Molecular, Cell and Developmental Biology University of California, Los Angeles	USA (GERMANY)
MOCHIZUKI Atsushi	Division of Theoretical Biology National Institute for Basic Biology, Okazaki	JAPAN

Comparative analysis of RF- transmitted neural activity underlying visual flight control in insects

GABBIANI Fabrizio	Dept. of Neuroscience Baylor College of Medicine, Houston	USA
DRAKAKIS Emmanuel	Bioengineering/Bioinspired VLSI CAS Group Imperial College London	UK (GREECE)
EGELHAAF Martin	Dept. of Neurobiology, Faculty of Biology Bielefeld University	GERMANY
KRAPP Holger G.	Dept. of Bioengineering Imperial College London	UK (GERMANY)

Polyglutamylation of microtubules as an epigenetic regulator of motor traffic

JANKE Carsten	CRBM - Macromolecular Biochemistry Research Center (UMR5327), CNRS, Montpellier	FRANCE (GERMANY)
GIANNIS Athassios	Institute of Organic Chemistry University of Leipzig	GERMANY (GREECE)
SURREY Thomas	Cell Biology and Biophysics Unit EMBL, Heidelberg	GERMANY
VERHEY Kristen	Dept. of Cell and Developmental Biology University of Michigan, Ann Arbor	USA

Structure and dynamics of neuronal granules that regulate RNA localization

KIEBLER Michael	Dept. of Neuronal Cell Biology Medical University of Vienna	AUSTRIA (GERMANY)
LEVITT Michael	Dept. of Structural Biology Stanford University School	USA
LUKAVSKY Peter	Div. of Structural Studies MRC Lab. of Molecular Biology, Cambridge	UK (AUSTRIA)
ULE Jernej	Div. of Structural Studies MRC Lab. of Molecular Biology, Cambridge	UK (SLOVENIA)

From molecular mechanics to the dynamics of cell shape change and tissue morphogenesis.

LECUIT Thomas	Institute of Developmental Biology of Marseille-Luminy CNRS - Université de la Méditerranée, Marseille	FRANCE
LENNE Pierre-François	Dept. of Physics, Fresnel Institute (UMR6133), CNRS Université Paul Cézanne Aix-Marseille III	FRANCE
MUNRO Edwin	Center for Cell Dynamics University of Washington, Friday Harbor	USA

Self-Organized Wiring of the Cerebral Cortex through Thalamocortical Growth Cones: An Integrated

Approach

LOPEZ-BENDITO Guillermina	Dept. of Developmental Neurobiology Institute of Neuroscience University of Miguel Hernandez-CSIC, San Juan De Alicante	SPAIN
GOODHILL Geoffrey	Queensland Brain Institute and Dept. of Mathematics University of Queensland, St Lucia	AUSTRALIA (UK)
PAULSEN Ole	Dept. of Physiology, Anatomy and Genetics University of Oxford	UK (NORWAY)
SHIMOGORI Tomomi	Shimogori Research Unit RIKEN BSI, Wako	JAPAN

Advancing the Frontier of Enzyme Reaction Mechanisms in the ADP-ribosyltransferase Family

MERRILL A. Rod	Dept. of Molecular and Cellular Biology University of Guelph	CANADA
LIM Carmay	Institute of Biomedical Sciences Academia Sinica, Taipei	CHINESE TAIPEI (MALAYSIA)
OPPENHEIMER Norman	Dept. of Pharmaceutical Chemistry University of California, San Francisco	USA
PAI Emil F.	Dept. of Biochemistry University of Toronto	CANADA (GERMANY)

Gastrulation in the chick embryo: a quantitative study using live imaging and computer modeling

NEWMAN Timothy	Dept. of Physics Arizona State University, Tempe	USA (UK)
WEIJER Cornelius	School of Life Sciences University of Dundee	UK (THE NETHERLANDS)

Motions in Macromolecular Function: New Approaches to Visualize and Simulate Protein Flexibility

NOGALES Dept. of Molecular and Cell Biology USA
Eva Howard Hughes Medical Institute (SPAIN)
University of California, Berkeley, Lawrence Berkeley National Lab.

CHACÓN Structural Bioinformatics Group SPAIN
Pablo Center for Biological Research (CIB)
CSIC, Madrid

LLORCA Dept. of Protein Science/Electron Microscopy Lab. SPAIN
Oscar Center for Biological Research (CIB)
CSIC, Madrid

PESONEN Lab. of Physical Chemistry FINLAND
Janne University of Helsinki

Molecular basis of photochemical magnetic sensing

RITZ Dept. of Physics and Astronomy USA
Thorsten University of California, Irvine (GERMANY)

AHMAD Dept. of Plant Biology FRANCE
Margaret Paris VI University (CANADA)

Integrating the antigenic, genetic, and epidemiological analyses of antigenically variable pathogens

SMITH Antigenic Cartography Group, Dept. of Zoology UK
Derek University of Cambridge

BARR Dept. of Influenza AUSTRALIA
Ian George WHO collaborating center for reference and research on influenza,
Parkville

COX National Center for Influenza and Respiratory Disease USA
Nancy Centers for Disease Control and Prevention, Atlanta

FOUCHIER Dept. of Virology and National Influenza Center THE NETHERLANDS
Ron Erasmus Medical Center, Rotterdam

TASHIRO Dept. of Virology JAPAN
Masato National Institute of Infectious Disease, Tokyo

Translation by single ribosomes one codon at a time

TINOCO Dept. of Chemistry USA
Ignacio University of California, Berkeley

NOLLER Dept. of Molecular Cell and Developmental Biolog, Noller Lab. USA
Harry F. University of California, Santa Cruz

RITORT Dept. of Fundamental Physics SPAIN
Felix University of Barcelona

YOSHIMURA Dept. of Responses to Environmental Signals and Stresses JAPAN
Shige Kyoto University Graduate School of Biostudies

Designing Molecular Hydrogels to Control and Direct Cell Behaviour

ULIJN Rein	School of Materials University of Manchester	UK (THE NETHERLANDS)
MERRY Catherine	School of Materials University of Manchester	UK
XU Bing	Dept. of Chemistry The Hong Kong University of Science & Technology	CHINA

YOUNG INVESTIGATORS

The gut microbiota as a novel target to treat metabolic diseases

BÄCKHED Dept. of Molecular and Clinical Medicine, The Wallenberg Lab. SWEDEN
Fredrik Gothenburg University

ORESIC Dept. of Quantitative Biology and Bioinformatics FINLAND
Matej VTT Technical Research Centre of Finland, Espoo (SLOVENIA)

Tri-Probes: Ligand-directed tethered fluorophores for monitoring receptor dynamics in living cells.

CHAMBERS Dept. of Chemistry USA
James University of Massachusetts, Amherst

HAFEZ Dept. of Biochemistry and Molecular Biology CANADA
Ismail University of British Columbia, Vancouver

Interplay between mechanical and biological mechanisms during cell cortex assembly

CHARRAS London Centre for Nanotechnology UK
Guillaume University College London (CANADA)

PALUCH Dept. of Molecular Cell Biology and Genetics GERMANY
Ewa Max Planck Institute, Dresden (POLAND)

ROMET-LEMONNE Dept. of Cytoskeleton Dynamics and Motility FRANCE
Guillaume Lab. of Structural Enzymology and Biochemistry (LEBS) CNRS
Gif-Sur-Yvette

ROUX Institute for Research in Immunology and Cancer (IRIC) CANADA
Philippe University of Montréal

Identifying and characterizing bacterial cytoskeletal elements and small molecules that target them

GITAI Dept. of Molecular Biology USA
Zemer Princeton University

GARSTECKI Dept. of Soft Condensed Matter POLAND
Piotr Institute of Physical Chemistry Polish Academy of Sciences, Warsaw

THANBICHLER Independent Junior Research Group GERMANY
Martin Max Planck Institute for Terrestrial Microbiology, Marburg

WEIBEL Dept. of Biochemistry USA
Douglas B. University of Wisconsin-Madison

Information processing in developing cells

GOLDING Dept. of Physics USA
Ido University of Illinois, Urbana (ISRAEL)

SAWAI ERATO Complex Systems Biology Project JAPAN
Satoshi Japan Science and Technology Agency, Tokyo

SEGEV Dept. of Life Sciences ISRAEL
Ronen Ben-Gurion University, Beer-Sheva

Epigenetic Program of Human Cytomegalovirus Pathogenesis

GOODRUM Felicia	Dept. of Immunobiology University of Arizona, Tucson	USA
NEVELS Michael	Dept. of Molecular Virology University of Regensburg Institute for Medical Microbiology	GERMANY
SEGAL Eran	Dept. of Computer Science and Applied Mathematics Weizmann Institute, Rehovot	ISRAEL

Integrating single molecule imaging techniques to unravel Mast-Dendritic cell interplay

LIDKE Diane	Dept. of Pathology University of New Mexico, Albuquerque	USA
CAMBI Alessandra	Dept. of Tumor Immunology Radboud University Nijmegen Medical Centre Nijmegen Centre for Molecular Life Sciences	THE NETHERLANDS (ITALY)

Biophysics of bacterial gliding motility

MIGNOT Tâm	Lab. of Bacterial Chemistry IBSM- Structural Biology and Microbiology Institute CNRS UPR 9043, Marseille	FRANCE
SHAEVITZ Joshua	Dept. of Physics and the Lewis-Sigler Institute for Integrative Genomics Princeton University	USA

Olfactory receptor neurons – linking membrane organization to neuronal functionality

REISERT Johannes	Reisert Lab. Monell Chemical Senses Center, Philadelphia	USA (GERMANY)
GAUS Katharina	Centre for Vascular Research University of New South Wales, Sydney	AUSTRALIA (GERMANY)

Neuronal correlates of hemodynamic signals

SHMUEL Amir	Montreal Neurological Institute, McConnel Brain Imaging Center McGill University, Montreal	CANADA (ISRAEL)
SEGHOUANE Abd-Krim	Dept. of Systems Engineering and Complex Systems National Information, Communication and Technology, Australia (NICTA), The Australian National University, Braddon	AUSTRALIA (ALGERIA)

Gene-regulatory functions and evolutionary logic of co-opted LINE3 repeats in mammals

SPITZ Francois	Developmental Biology Unit EMBL, Heidelberg	GERMANY (FRANCE)
BEJERANO Gill	Dept. of Developmental Biology and Computer Science School of Medicine & School of Engineering Stanford University	USA (ISRAEL)

Probing the mechanism of the cleavage reaction in catalytic RNAs

TANAKA Yoshiyuki	Lab. of Molecular Transformation Graduate School of Pharmaceutical Sciences Tohoku University, Sendai	JAPAN
KATO Masato	Dept. of Internal Medicine The University of Texas Southwestern Medical Center at Dallas	USA (JAPAN)
MATSUDA Yoshiyuki	Dept. of Chemistry Graduate School of Science Tohoku University, Sendai	JAPAN
SYCHROVSKY Vladimir	Dept. of Molecular Spectroscopy Institute of Organic Chemistry and Biochemistry Academy of Sciences of the Czech Republic, Prague	CZECH REPUBLIC

Quantitative modeling of expression pattern evolution in insect development

TOMANCAK Pavel	Institute of Molecular Cell Biology and Genetics Max Planck Institute, Dresden	GERMANY (CZECH REPUBLIC)
BERGMAN Casey	Faculty of Life Sciences University of Manchester	UK (USA)
OHLER Uwe	Institute for Genome Sciences and Policy Duke University, Durham	USA (GERMANY)

Reconstructing bacterial ribosomal assembly in vitro: Unusual factors and their mechanisms

WILSON Daniel	Gene Center and Dept. of Chemistry and Biochemistry Ludwig-Maximilians-University of Munich	GERMANY (UK)
BLANCHARD Scott	Dept. of Physiology and Biophysics Weill-Cornell Medical College Cornell University, New York	USA
SERGIEV Petr	Dept. of Chemistry Moscow State University	RUSSIA