



HFSP AWARDS 2005

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

ABEL Ted	Dept. of Biology University of Pennsylvania, Philadelphia	USA
BLACKWELL Kim	The Krasnow Institute for Advanced Studies and School of Computational Sciences George Mason University, Fairfax	USA
GRANT Seth G. N.	Genes to Cognition (Team 32) Wellcome Trust Sanger Institute, Hinxton	UK
ZACCOLO Manuela	Venetian Institute for Molecular Medicine University of Padua, Padua	ITALY

PKA anchoring and cAMP signaling: genetic, proteomic, computational and cell biological approaches

BIBETTE J�rome	Lab. of Colloids and Dispersed Materials Ecole Sup�rieure de Physique et Chimie Industrielle, Paris	FRANCE
GRIFFITHS Andrew	Dept. of Protein and Nucleic Acid Chemistry Lab. of Molecular Biology, Cambridge	UK
WEITZ David	Dept. of Physics, Div. of Engineering and Applied Sciences Harvard University, Cambridge	USA (CANADA)

An in vitro model for evolution: precision control of directed evolution with micro fluidic devices

BRAND Michael	Dept. of Genetics Max-Planck Institute of Molecular Cell Biology and Genetics, University of Technology, Dresden	GERMANY
MIYAWAKI Atsushi	Lab. for Cell Function and Dynamics Brain Science Institute, RIKEN, Wako City	JAPAN
SCHWILLE Petra	Institut of Biophysics- BioTec University of Technology, Dresden	GERMANY

A new experimental framework for quantitative biophysical studies in developmental biology

DOGTEROM Marileen	Experimental Life Inspired Physics FOM Institute AMOLF, Amsterdam	THE NETHERLANDS
BRUNNER Damian	Cell Biology and Biophysics Programme EMBL, Heidelberg	GERMANY (SWITZERLAND)
KAIBUCHI Kozo	Cell Pharmacology Nagoya University Graduate School of Medicine, Nagoya	JAPAN

A combined in vivo/in vitro approach to study cell-cortex-regulated microtubule organization

DOLAN Liam	Cell and Developmental Biology John Innes Centre, Norwich	UK (IRELAND)
MONK Nick	Dept. of Computer Science University of Sheffield	UK
WADA Takuji	Plant Science Center RIKEN, Yokohama	JAPAN

Modelling the regulation of cell patterning in Arabidopsis root epidermis

EDISON Arthur S.	Biochemistry & Molecular Biology University of Florida, Gainesville	USA
DE BONO Mario	Division of Cell Biology MRC Lab. of Molecular Biology, Cambridge	UK (MALTA)
STERNBERG Paul	Dept. of Biology California Institute of Technology, HHMI, Pasadena	USA
TEAL Peter	Chemistry Research Unit, USDA-ARS Center for Medical, Agricultural and Veterinary Entomology, Gainesville	USA

Discovery of Caenorhabditis elegans chemical ecology

FADEEL Bengt	Division of Molecular Toxicology, Institute of Environmental Medicine Karolinska Institutet, Stockholm	SWEDEN
KAGAN Valerian	Dept. of Environmental and Occupational Health University of Pittsburgh, Pittsburgh	USA
QUINN Peter J.	Dept. of Life Sciences King's College London	UK
XUE Ding	Dept. of Molecular, Cellular, and Developmental Biology Univ. of Colorado, Boulder	USA

Oxidative lipidomics of programmed cell clearance: from nematodes to humans

FERNIG David	Biological Sciences/Centre for Nanoscale Science University of Liverpool	UK
BRUST Mathias	Dept. of Chemistry/Centre for Nanoscale Science University of Liverpool	UK (GERMANY)
LOUNIS Brahim	Centre de Physique Moléculaire Optique et Hertzienne CNRS & Université Bordeaux 1, Talence	FRANCE
SUGAHARA Kazuyuki	Dept. of Biochemistry Kobe Pharmaceutical University, Kobe	JAPAN

Glycobiology meets nanotechnology: nanoparticle probes for the analysis of polysaccharides

HUBER Wolfgang	European Bioinformatics Institute EMBL, Cambridge	UK (GERMANY)
BOUTROS Michael	Signaling and Functional Genomics German Cancer Research Center, Heidelberg	GERMANY
GENTLEMAN Robert C.	Div. of Public Health Sciences Fred Hutchinson Cancer Research Center, Seattle	USA (CANADA)
KIGER Amy	Section of Cell & Developmental Biology, Division of Biological Sciences University of California, La Jolla	USA

Systems analysis by quantitative cellular assays, network modeling and integration of meta-data

ISACOFF Ehud Y.	Molecular and Cell Biology University of California Berkeley	USA
CHARPAK Serge	Dept. of Neurophysiology and New Microscopies INSERM U603, ESPCI, Paris	FRANCE
REUVENY Eitan	Biological Chemistry Weizmann Institute of Science, Rehovot	ISRAEL
TRAUNER Dirk	Dept. of Chemistry University of California, Berkeley	USA (AUSTRIA)

Optical detection and manipulation of protein signaling - sensory processing in the mammalian brain

KARPLUS Martin	Lab. of Biophysical Chemistry ISIS, Université Louis Pasteur, Strasbourg	FRANCE (USA)
HOUDUSSE Anne	Structural Motility - UMR144 CNRS Institut Curie, Paris	FRANCE
SWEENEY H. Lee	Dept. of Physiology University of Pennsylvania School of Medicine, Philadelphia	USA
TROUT Bernhardt	Dept. of Chemical Engineering MIT, Cambridge	USA

How myosin walks: a molecular dynamics and engineering analysis of chemomechanical transduction

LINDQVIST Ylva	Dept. of Medical Biochemistry and Biophysics Karolinska Institutet, Stockholm	SWEDEN
ITO Yukishige	Synthetic Cellular Chemistry Lab. RIKEN, Wako	JAPAN
KAUFMAN Randal J.	Dept. of Biological Chemistry Howard Hughes Medical Institute University of Michigan Medical Center, Ann Arbor	USA

The function of glycoprotein receptors in the transit from ER to Golgi

LINGNER Joachim	ISREC, Swiss Institute for Experimental Cancer Research Epalinges	SWITZERLAND
DONTSOVA Olga	Dept. of Chemistry M.V.Lomonosov Moscow State University, Moscow	RUSSIA
RHODES Daniela	MRC Lab. of Molecular Biology, Cambridge Structural Studies Division	UK (ITALY)
VARANI Gabriele	Dept. of Biochemistry University of Washington, Seattle	USA (ITALY)
WESTHOF Eric	UPR9002, IBMC-CNRS Université Louis Pasteur, Strasbourg	FRANCE

Telomerase enzyme assembly, interactions and function

MELLER Amit	Rowland Institute at Harvard Harvard University, Cambridge	USA (ISRAEL)
ISAMBERT Herve	Complex Fluids Dynamics, Institute of Physics CNRS UMR7506, Université Louis Pasteur, Strasbourg	FRANCE
SAGI Irit	Dept. of Structural Biology The Weizmann Institute of Science, Rehovot	ISRAEL
SONENBERG Nahum	Dept. of Biochemistry McGill University, Montreal	CANADA

Folding kinetics and stability studies of individual RNA molecules, application to RNA interference

MUNOZ Douglas	Dept. of Neuroscience Queen's University, Kingston	CANADA
ISA Tadashi	Dept. of Developmental Physiology National Institute for Physiological Sciences, Okazaki	JAPAN
ITTI Laurent	Computer Science, Psychology and Neuroscience University of Southern California, Los Angeles	USA (FRANCE)
THEEUWES Jan	Cognitive Psychology Vrije Universiteit, Amsterdam	THE NETHERLANDS

Neural substrate of bottom-up and top-down visual attentional integration

PIERRE Philippe	Lab. for Dendritic Cell Biology, CNRS-INSERM Centre d'Immunologie de Marseille Luminy, Marseille	FRANCE
DESJARDINS Michel	Dept. of Pathology and Cell Biology University of Montreal	CANADA
SANTOS Manuel	Dept. of Biology University of Aveiro	PORTUGAL
SCHULTZ Carsten	Gene Expression Programme EMBL, Heidelberg	GERMANY

mRNA mistranslation in biological processes

REGEV Aviv	Bauer Center for Genomics Research Harvard University, Cambridge	USA (ISRAEL)
FRIEDMAN Nir	School of Computer Science & Engineering Hebrew University, Jerusalem	ISRAEL
O'SHEA Erin	Dept. of Biochemistry & Biophysics Howard Hughes Medical Institute University of California, San Francisco	USA

Deciphering the function and dynamics of regulatory networks by high-throughput experiments and analysis

RIEZMAN Howard	Dept. of Biochemistry, Sciences II University of Geneva	SWITZERLAND (USA)
HANNUN Yusuf	Biochemistry and Molecular Biology Medical University of South Carolina, Charleston	USA
KURZCHALIA Teymuraz	Dept. of Biology and Genetics Max-Planck Institute for Molecular Cell Biology and Genetics, Dresden	GERMANY (GEORGIA)
MAYOR Satyajit	Dept. of Cellular Organisation and Signalling National Centre for Biological Sciences, Bangalore	INDIA

Ceramide containing rafts: structure and function

ROTHMAN James E.	Dept. of Physiology & Cellular Biophysics Columbia University, New York	USA
PEREZ Eric	Lab. of Statistical Physics Ecole Normale Supérieure, Paris	FRANCE

Conformational changes and energies involved in SNARE-induced membrane fusion

SCHERTLER Gebhard	MRC Lab. of Molecular Biology Medical Research Council, Cambridge	UK (AUSTRIA)
OPRIAN Daniel	Dept. of Biochemistry Brandeis University, Waltham	USA
RIEKEL Christian	Lab. of Experiments European Synchrotron Radiation Facility, Grenoble	FRANCE (GERMANY)

The molecular mechanism of G protein-coupled receptor signalling

SCHNEIDER Gerd	X-Ray Microscopy Group BESSY m.b.H., Berlin	GERMANY
--------------------------	--	---------

MCNALLY James	Lab. of Receptor Biology and Gene Expression National Cancer Institute, NIH, Bethesda	USA
-------------------------	--	-----

X-ray nano-tomography of higher order chromatin structure in a transcriptionally active domain

SIRIGU Angela	Institute of Cognitive Sciences CNRS, Bron	FRANCE (ITALY)
-------------------------	---	-------------------

CAMERER Colin	Dept. of Humanities and Social Sciences California Institute of Technology, Pasadena	USA
-------------------------	---	-----

DUHAMEL Jean-René	Institute of Cognitive Sciences CNRS, Bron	FRANCE (CANADA)
-----------------------------	---	--------------------

NAGEL Rosemarie	Dept. of Economics Universitat Pompeu Fabra, Barcelona	SPAIN (GERMANY)
---------------------------	---	--------------------

Decision making and strategies in the brain: a multidisciplinary approach for understanding social behaviour

SOCKETT Renee Elizabeth	Institute of Genetics, Medical School University of Nottingham	UK
-----------------------------------	---	----

AIZAWA Shin-Ichi	Soft Nanomachine Project CREST (Core Research for Evolution Science & Technology), JST, Takanezawa	JAPAN
----------------------------	--	-------

MADDOCK Janine	Molecular, Cellular Developmental Biology University of Michigan, Ann Arbor	USA
--------------------------	--	-----

Proteomics, genetics and ultrastructure of predator-prey interactions by *Bdellovibrio* bacteria

SYKES Cécile	Lab. of Physical Chemistry Institut Curie/CNRS, Paris	FRANCE
------------------------	--	--------

DEMING Timothy	Dept. of Bioengineering University of California, Los Angeles	USA
--------------------------	--	-----

FRIEDERICH Evelyne	Lab. of Molecular Biology, Genetics and Modelling Public Research Center for Health, Luxembourg	LUXEMBOURG
------------------------------	--	------------

GETTEMANS Jan	Dept. of Biochemistry & Molecular Biology Ghent University	BELGIUM
-------------------------	---	---------

Autopropulsion of liposomes in living systems, and mimicking with abiotic systems

TRAAS Jan	Lab. de Biologie Cellulaire INRA, Versailles	FRANCE (THE NETHERLANDS)
COUDER Yves	Lab. of Statistical Physics Ecole Normale Supérieure, Paris	FRANCE
MEYEROWITZ Elliot	Division of Biology California Institute of Technology, Pasadena	USA
PETERSON Carsten	Complex Systems Division, Dept. of Theoretical Physics Lund University	SWEDEN

The interaction between physical forces and development at the shoot apical meristem

WERCK-REICHHART Danièle	Functional Genomics of Plant P450s, CNRS-UPR2357 Institute of Plant Molecular Biology, Strasbourg	FRANCE
MØLLER Birger Lindberg	Plant Biochemistry Lab. Center of Molecular Plant Physiology (PlaCe) Royal Veterinary & Agricultural University, Copenhagen	DENMARK
ROEPSTORFF Peter	Dept. of Biochemistry and Molecular Biology Danish Biotechnology Instrument Center (DABIC) University of Southern Denmark, Odense	DENMARK
SLIGAR Stephen	Dept. of Biochemistry University of Illinois, Urbana	USA

Metabolons and complexity in plant secondary metabolism studied by BIA-MS and nanodisc anchoring

WINGREEN Ned	Dept. of Molecular Biology Princeton University	USA
MEIR Yigal	Dept. of Physics Ben Gurion University, Beer Sheva	ISRAEL
SOURJIK Victor	ZMBH (Center for Molecular Biology Heidelberg) University of Heidelberg	GERMANY (BELARUS)

Signal integration by mixed chemoreceptor teams in bacterial chemotaxis

YOUNG INVESTIGATORS

DALTON Alan	Materials Institute University of Surrey, Guildford	UK (IRELAND)
COLEMAN Johnny	Dept. of Physics Trinity College, Dublin	IRELAND
DIECKMANN Gregg	Dept. of Chemistry University of Texas, Dallas	USA

Peptide-coated nanotubes:toxicity and targeted cell ablation

GLOVER Beverley	Dept. of Plant Sciences University of Cambridge	UK
LLEWELLYN SMITH Stefan	Dept. of Mechanical and Aerospace Engineering University of California, San Diego	USA (UK)

Physics and adaptation; the evolution of dispersivity

HOPFNER Karl-Peter	Chemistry and Biochemistry University of Munich	GERMANY
HA Taekjip	Dept. of Physics University of Illinois, Urbana-Champagin	USA
UHLMANN Frank	Chromosome Segregation Lab. Cancer Research UK, Lincoln's Inn Fields Laboratories London Research Institute	UK (GERMANY)

Mechanism of cohesin and related SMC complexes in chromosome biology

MARGRIE Troy	The Wolfson Institute for Biomedical Research – Dept. of Physiology University College London	UK (AUSTRALIA)
OSTEN Pavel	Dept. of Molecular Neurobiology Max-Planck Institute for Medical Research, Heidelberg	GERMANY (CZECH REPUBLIC)
URBAN Nathaniel	Dept. of Biological Sciences Centre for the Neural Basis of Cognition Carnegie Mellon University, Pittsburgh	USA

Determining the functional contribution of a single glomerulus to odor perception

NEDELEC Francois	Cell Biology and Biophysics EMBL, Heidelberg	GERMANY (FRANCE)
DESAI Arshad	Lab. of Chromosome Biology Ludwig Institute for Cancer Research University of California, San Diego	USA (INDIA)
TANAKA Tomoyuki	School of Life Sciences, Wellcome Trust Biocentre University of Dundee	UK (JAPAN)

Building and Testing Mechanistic Models for Chromosome Segregation

PASPARAKIS Manolis	Mouse Biology Programme EMBL, Monterotondo	ITALY (GREECE)
BULYK Martha	Division of Genetics - Brigham & Women's Hospital Harvard Medical School, Boston	USA
NATOLI Giacchino	Dept. of Immunology Institute for Research in Biomedicine, Bellinzona	SWITZERLAND (ITALY)

Unveiling role and functional specificity of individual kB sites in multi-site NFkB-dependent genes

PAULSSON Johan	Dept. of Applied Mathematics & Theoretical Physics University of Cambridge	UK (SWEDEN)
KISHONY Roy	Bauer Center for Genomics Research Harvard University, Cambridge	USA (ISRAEL)
QUESTEMBERT- BALABAN Nathalie	Racah Insitute for Physics Hebrew University, Jerusalem	ISRAEL
RANDO Oliver	Bauer Center for Genomics Research Harvard University, Cambridge	USA

A systems approach to epigenetic decisions in yeast