

PROGRAM GRANTS

Control of cell migration and polarity by a mechanosensory complex linking adhesion and microtubules

AKHMANOVA Anna	Div. of Cell Biology Faculty of Science Utrecht University	THE NETHERLANDS
GOULT Benjamin	School of Biosciences University of Kent Canterbury	UK
TANENTZAPF Guy	Dept. of Cellular & Physiological Sciences The University of British Columbia Vancouver	CANADA
YAN Jie	Dept. of Physics and Mechanobiology Institute National University of Singapore	SINGAPORE (CHINA)

Complete cell lineage trees inferred by in situ genotyping of induced somatic mutations

AVEROF Michalis	Institut de Génomique Fonctionnelle de Lyon (IGFL) CNRS, Lyon	FRANCE (GREECE)
LEE Je H.	Cancer Centre/Lee Lab. Cold Spring Harbor Lab.	USA
TELFORD Maximilian J	Dept. of Genetics, Evolution and Environment University College London	UK

Green life in the dark

BABIN Marcel	CERC-Remote Sensing of Canada's New Arctic Frontier Faculté des sciences et de génie, Université Laval	CANADA
BOWLER Chris	Ecology and Evolutionary Biology Section Institute of Biology, ENS Paris	FRANCE (UK)

Physical, computational and biological approaches of filopodia formation mechanism

BASSEREAU Patricia	Physical Chemistry Curie Curie Institute CNRS, Paris	FRANCE
LAPPALAINEN Pekka	Institute of Biotechnology University of Helsinki	FINLAND
VOTH Gregory	Dept. of Chemistry The University of Chicago	USA

PROGRAM GRANTS

Development, functions, and evolution of transparency in butterflies: an interdisciplinary approach

ELIAS Marianne	Institute of Systematics and Evolution of Biodiversity CNRS - National Center for Scientific Research MNHN - National Museum of Natural History, Paris	FRANCE
BERTHIER Serge	INSP - Institut des NanoSciences de Paris Université Pierre et Marie Curie	FRANCE
PATEL Nipam	Dept. of Molecular Cell Biology and Dept. of Integrative Biology Univeristy of California, Berkeley	USA

Single cell-resolution imaging and optogenetics in the amygdala fear circuits in behaving animals

EMILIANI Valentina	Neurophotronics lab. University Paris Descartes, CNRS	FRANCE (ITALY)
BOYDEN Ed	Media Lab and McGovern Institute MIT, Cambridge	USA
KATZ Ori	Dept. of Applied Physics The Selim and Rachel Benin School of Computer Science & Engineering The Hebrew University of Jerusalem	ISRAEL
LI Bo	Dept. of Neuroscience Cold Spring Harbor Lab.	USA (CANADA)

Understanding curiosity: a combined behavioral, biological and computational theory

GOTTLIEB Jacqueline	Dept. of Neuroscience Columbia University New York	USA
KIDD Celeste	Kidd Lab, Dept. of Brain and Cognitive Sciences University of Rochester	USA
OUDEYER Pierre-Yves	INRIA Flowers Lab. INRIA Bordeaux Sud-Ouest, Talence	FRANCE

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Multi-scale analysis of membrane neurotransmitter cross-talk in the physiopathological brain

GROC Laurent	Institut interdisciplinaire de Neurosciences University de Bordeaux CNRS-UMR 5297, Bordeaux	FRANCE
IKEGAYA Yuji	Lab. of Chemical Pharmacology Graduate School of Pharmaceutical Sciences The University of Tokyo	JAPAN
LIU Fang	Dept. of Molecular Neuroscience Centre for Addiction and Mental Health Toronto	CANADA

Interactions among marine microbes as they grow and die: linking experiments and genome-scale models

GROSSART Hans-Peter	Dept. of Limnology of Stratified Lakes Leibniz-Institute of Freshwater Ecology and Inland Fisheries Potsdam University, Stechlin	GERMANY
SEGRE' Daniel	Graduate Program in Bioinformatics Boston University	USA (ITALY)
SHER Daniel	Marine Biology labs University of Haifa	ISRAEL
VOSS Maren	Dept. of Biological Oceanography Leibniz Institute Baltic Sea Research Rostock	GERMANY

Nuclear actin assembly in chromatin structure and dynamics for cell cycle control and reprogramming

GROSSE Robert	Institute of Pharmacology Faculty of Medicine, University of Marburg	GERMANY
KAIDI Abderrahmane	School of Cellular and Molecular Medicine University of Bristol	UK
MIYAMOTO Kei	Dept. of Genetic Engineering Faculty of Biology-Oriented Science and Technology Kinki University Wakayama-Ken	JAPAN

Mouse lemur: a novel neuroscience model system to study cortical circuits

HUBER Daniel	Dept. of Basic Neurosciences University of Geneva	SWITZERLAND
KIM Jinhyun	Center for Functional Connectomics Korea Institute of Science and Technology Seoul	KOREA
PIFFERI Fabien	Mecanismes Adaptatifs et Evolution Equipe BIOADAPT, CNRS-MNHN Musée National d'Histoire Naturelle, Brunoy	FRANCE

A comprehensive approach towards the chemistry & biology of polyphosphate: the forgotten biopolymer

JESSEN Henning	Institute of Organic Chemistry Faculty of Chemistry and Pharmacy Albert-Ludwigs-University, Freiburg	GERMANY
BHANDARI Rashna	Lab. of Cell Signalling Centre for DNA Fingerprinting and Diagnostics, Hyderabad	INDIA
WENDER Paul	Dept. of Chemistry Stanford University	USA

Real-time tracking and imaging of neuronal dynamics in freely moving vertebrates

JUDKEWITZ Benjamin	Bioimaging and Neurophotonics Lab. Charité Berlin (Humboldt University) Cluster of Excellence NeuroCure, Berlin	GERMANY
PORTUGUES Ruben	Group of Sensorimotor Control Max Planck Institute of Neurobiology Martinsried	GERMANY (SPAIN)
SMITH Spencer	Dept. of Cell Biology and Physiology University of North Carolina Chapel Hill	USA

Telling time with a noisy clock: mechanism of cell-intrinsic temporal regulation of gene expression

KORSWAGEN Hendrik	Hubrecht Institute Royal Netherlands Academy of Arts and Sciences University medical Center Utrecht	THE NETHERLANDS
FELIX Marie-Anne	Institute of Biology (IBENS) ENS Paris	FRANCE
MUGLER Andrew	Dept. of Physics Purdue University West Lafayette	USA

Constructing accessory lymph nodes in situ for control of mammary carcinoma

LUDEWIG Burkhard	Medical Research Center / Institute of Immunobiology Kantonsspital St. Gallen	SWITZERLAND
KOH Gou Young	Center for Vascular Research Institute of Basic Research (IBS) Graduate School of Medical Science and Engineering KAIST, Daejeon	KOREA
YUN Seok-Hyun	Wellman Center for Photomedicine Massachusetts General Hospital Harvard Medical School, Cambridge	USA (KOREA)

Architecture/force relationship and migration mechanics of macrophage podosomes

MARIDONNEAU- PARINI Isabelle	Institute of Pharmacology and Structural Biology Université Toulouse III, CNRS	FRANCE
BAUMEISTER Wolfgang	Dept. of Structural Biology Max-Planck-Institute of Biochemistry Martinsried	GERMANY
CHEN Christopher S.	Dept. of Biomedical Engineering Boston University	USA
COX Susan	Randall Division of Cell and Molecular Biophysics King's College London	UK

Neural mechanisms underlying the visual analysis of intent

MARTINEZ Aleix	Dept. of Electrical and Computer Engineering The Ohio State University Columbus	USA
GIESE Martin	Dept. of Cognitive Neurology Hertie Institute for Clinical Brain Research, Center for Integrative Neuroscience, Tuebingen	GERMANY
TSAO Doris	Division of Biology California Institute of Technology Pasadena	USA

Completing the cycle: lighting up the central dogma for a predictive understanding of genetic clocks

OATES Andrew	Dept. of Cell and Developmental Biology University College London	UK (AUSTRALIA)
CHICA Roberto	Dept. of Chemistry University of Ottawa	CANADA
GARCIA Hernan	Dept. of Molecular & Cell Biology and Dept. of Physics University of California Berkeley	USA (ARGENTINA)

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“Seeing” voices: the role of multimodal cues in vocal learning

RIEBEL Katharina	Dept. of Biology Leiden University	THE NETHERLANDS (GERMANY)
HALFWERK Wouter	Dept. of Animal Ecology Vrije University Amsterdam	THE NETHERLANDS
SCHARFF Constance	Neurobiology and Behaviour Group Dept. of Biology, Chemistry and Pharmacy Institute of Biology, Free University Berlin	GERMANY

Imaging cellular function noninvasively with genetically engineered reporters for hyperpolarized MRI

SHAPIRO Mikhail	Dept. of Chemical Engineering California Institute of Technology Pasadena	USA
SCHRÖDER Leif	Dept. of Molecular Imaging Leibniz-Institute for Molecular Pharmacology (FMP) Berlin	GERMANY

The physics of social behavior in the 3-dimensional shoaling of zebrafish, *Danio rerio*

STEPHENS Greg	Dept. of Physics and Astronomy Vrije Universiteit Amsterdam	THE NETHERLANDS (USA)
MASAI Ichiro	Developmental neurobiology unit Okinawa Institute of Science and Technology Graduate University Onna	JAPAN
SHAEVITZ Joshua	Dept. of Physics and the Lewis-Sigler Institute for Integrative Genomics Princeton University	USA

Analog computations underlying language mechanisms

TREVES Alessandro	Dept. of Cognitive Neuroscience SISSA (International School for Advanced Studies) Trieste	ITALY
FRIEDMANN Naama	Language and Brain Lab. School of Education Tel Aviv University	ISRAEL
MONASSON Remi	Lab. of Theoretical Physics ENS, Paris	FRANCE

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The first mammalian model for vocal learning: a molecular, neural and comparative approach in bats.

VERNES Sonja	Language and Genetics Dept. Max-Planck Institute for Psycholinguistics Nijmegen	THE NETHERLANDS
FIRZLAFF Uwe	Dept. of Animal Sciences Technische Universität München Freising	GERMANY
WIEGREBE Lutz	Dept. of Neurobiology Biocenter University of Munich, Planegg-Martinsried	GERMANY
YARTSEV Michael	Dept. of Bioengineering Berkeley University	USA (ISRAEL)

Mechanisms of dynamic GPCR transmembrane signaling

WAGNER Gerhard	Dept. of Biological Chemistry and Molecular Pharmacology Harvard Medical School Boston	USA (GERMANY)
PLÜCKTHUN Andreas	Dept. of Biochemistry University of Zurich	SWITZERLAND (GERMANY)

Optimization of metabolic flux in the hummingbird: from enzymes to ecology

WELCH Kenneth	Dept. of Biological Sciences University of Toronto Scarborough Toronto	CANADA
TIMP Winston	Dept. of Biomedical Engineering Johns Hopkins University Baltimore	USA
VALLE Mikel	Structural Biology Unit Center for Cooperative Research in Biosciences CICbioGUNE, Derio	SPAIN
WONG G. William	Dept. of Physiology Johns Hopkins University Baltimore	USA

YOUNG INVESTIGATORS

Dissecting cytoskeletal dynamics across the malaria parasite lifecycle – RENEWAL APP.

BAUM Jake	Dept. of Life Sciences Imperial College London	UK
FRISCHKNECHT Friedrich	Parasitology Unit, Center for Infectious Diseases University of Heidelberg Medical School	GERMANY
HOUDUSSE Anne	Structural Motility Group Institut Curie - CNRS Paris	FRANCE
KOVAR David	Dept. of Molecular Genetics and Cell Biology The University of Chicago	USA

Examining the causal role of spindle oscillations in memory consolidation

BENDOR Daniel	Dept. of Experimental Psychology University College London	UK (USA)
HALASSA Michael	Neuroscience Institute New York University School of Medicine	USA

Neuroanatomy of fat discerned with whole body optoacoustic and fluorescence imaging

DOMINGOS Ana	Obesity lab. Gulbenkian Institute for Science Oeiras	PORTUGAL
COHEN Paul	Lab. of Molecular Metabolism The Rockefeller University New York	USA
RAZANSKY Daniel	Institute for Biological and Medical Imaging Helmholtz Center Munich and Technical University of Munich	GERMANY (ISRAEL)

Building from scratch: How nanomaterials can help resolve membrane scaffold geometry and function

LAU K. H. Aaron	Dept. of Pure and Applied Chemistry University of Strathclyde Glasgow	UK
MIM Carsten	Dept. of Structural Biotechnology School of Technology and Health KTH Royal Technical Institute, Huddinge	SWEDEN (GERMANY)
YAMEEN Basit	Lab. of Nanomedicine and Biomaterials Dept. of Anesthesiology Brigham and Women Hospital Harvard Medical School Boston	USA (PAKISTAN)

YOUNG INVESTIGATORS

Impact of horizontal gene transfer on natural ecosystems

MIYAZAKI Ryo	Bioproduction Research Institute National Institute of Advanced Industrial Science and Technology (AIST) Tsukuba	JAPAN
ENGEL Philipp	Dept. of Fundamental Microbiology University of Lausanne	SWITZERLAND (GERMANY)
SANCHEZ Alvaro	Dept. of Ecology and Evolutionary Biology Yale University New Haven	USA (SPAIN)

Beyond the genome: impact of microbial communities and epigenetic regulations for adaptation

REITZEL Adam	Dept. of Biological Sciences University of North Carolina at Charlotte	USA
FORET Sylvain	Dept. of Evolution, Ecology and Genetics Research School of Biology The Australian National University, Acton	AUSTRALIA
FRAUNE Sebastian	Zoological Institute, Lab. Prof. Bosch Christian-Albrechts University Kiel	GERMANY

Reconstitution of cell polarity and axis determination in a cell-free system

TELLEY Ivo A.	Physical Principles of Nuclear Division-Lab Fundação Calouste Gulbenkian Instituto Gulbenkian de Ciência Oeiras	PORTUGAL (SWITZERLAND)
LOOSE Martin	Life Sciences Dept. Institute of Science and Technology Austria (IST Austria), Klosterneuburg	AUSTRIA (GERMANY)
MAURER Sebastian	Dept. of Cell and Developmental Biology Center for Genomic Regulation (CRG) Barcelona	SPAIN (GERMANY)
SAUNDERS Timothy	Mechanobiology Institute and Dept. of Biological Sciences National University of Singapore	SINGAPORE (UK)