

HFSP AWARDS 2020

RESEARCH GRANTS

Research Grants (Program Grants and Young Investigators) provide 3 years of support for international teams involving at least two countries. Preference is given to intercontinental collaborations (rather than all N. American or all European teams). All team members are expected to broaden the character of their research compared to their ongoing research programs and interact with teams bringing expertise that is very different from their own so as to create novel approaches to problems in fundamental biology. All members of a Young Investigator team must be within 5 years of establishing their independent research group and no more than 10 years from their doctoral degree. Program Grant teams may consist of team members at any stage of their career as independent investigators.

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

Uncovering the OS of trees: Environmental information processing and the control of bud dormancy

BASSEL George	School of Biosciences University of Warwick Coventry	UK (GREECE)
BAYER Emmanuelle	Laboratory of Membrane Biogenesis UMR5200 University of Bordeaux, CNRS Villenave d'Ornon	FRANCE
BHALERAO Rishikesh	Dept. of Forest Genetics and Plant Physiology The Swedish University of Agricultural Sciences Umea	SWEDEN
WALKER Sara	School of Earth and Space Exploration Arizona State University Tempe	USA
Sounds and p	heromones: neural networks merging olfactory sexual imprinting	and acoustic cues in
BOVETTI Serena	Dept. of Life Sciences and Systems Biology University of Turin	ITALY
GIGAN Sylvain	Laboratoire Kastler-Brossel Sorbonne Université, Ecole Normale Supérieure Paris	FRANCE
PENN Dustin	Konrad Lorenz Institute of Ethology Veterinary Medicine University Vienna	AUSTRIA (USA)
Integrating r	naterials, behavior, robotics and architecture in sharks	ı giant filter-feeding
DEAN Mason	Dept. of Biomaterials Max Planck Institute for Colloids & Interfaces Potsdam	GERMANY (USA)
GOLDBOGEN Jeremy	Hopkins Marine Station, Dept. of Biology Stanford University Pacific grove	USA
HANNA	Bartlett School of Architecture	UK

Sean

Sean	University College London	
HAUERT	Bristol Robotics Lab.	UK
Sabine	University of Bristol	(SWITZERLAND)

FRANKS Peter	School of Life and Environmental Sciences University of Sydney Eveleigh	AUSTRALIA
COX Peter	College of Engineering Mathematics and Physical Sciences University of Exeter	UK
SCHROEDER Julian	Division of Biological Sciences Cell and Developmental Biology Section University of California, San Diego La Jolla	USA
1	Time-resolving the mechanism of exocytosis in situ	1
GALLEGO Oriol	Dept. of Experimental and Health Sciences Pompeu Fabra university Barcelona	SPAIN
CASTANO-DIEZ Daniel	BioEM Lab, Biozentrum University of Basel	SWITZERLAND (SPAIN)
DE MARCO Alex	Dept. of Biochemistry and Molecular Biology Monash University Clayton	AUSTRALIA (ITALY)
Self-organizat	tion and biomechanical properties of the endosom	al membrane
GIZELI Electra	Institute of Molecular Biology & Biotechnology Foundation for Research and Technology, Hellas Heraklion	GREECE
ANDO Toshio	WPI Nano Life Science Institute Kanazawa University	JAPAN
SPAKOWITZ Andrew J.	Dept. of Chemical Engineering Stanford University	USA
ZERIAL Marino	Zerial Lab, Principles of cell and tissue organization Max Planck Institute of Molecular Cell Biology and Genetics Dresden	GERMANY (ITALY)
High-throughput single-molecule evolution		
GRIFFITHS Andrew David	Laboratoire de Biochimie - CBI - UMR 8231 ESPCI Paris Tech	FRANCE
VAN OIJEN Antoine	School of Chemistry and Molecular Bioscience University of Wollongong	AUSTRALIA (THE NETHERLANDS)

How plant heat stress will influence global warming this century

Developing a method for rapid disassembly of neurodegenerative biomolecular condensates

INOUE Takanari	Dept. of Cell Biology / Center for Cell Dynamics Johns Hopkins University Baltimore	USA (JAPAN)
PERLSON Eran	Dept. of Physiology and Pharmacology Tel Aviv University	ISRAEL
SYKES Cécile	Dept. of Biomimetism of cellular movement UMR168 Physical Chemistry Curie Lab. , Curie Institute, CNRS Paris	FRANCE
	Biological protein springs as allosteric modulato	rs
ITZHAKI Laura	Dept. of Pharmacology University of Cambridge	UK
BAHAR lvet	Dept. of Computational & Systems Biology University of Pittsburgh	USA
GORDON Reuven	Dept. of Electrical and Computer Engineering University of Victoria	CANADA
YANG Shang-Hua	Dept. of Electrical Engineering National Tsing Hua University Hsinchu	TAIWAN
	Stable propagation of a minimal synthetic cell	
KURUMA Yutetsu	X-star Japan Agency for Marine-Earth Science and Technology Kanagawa	JAPAN (KOREA)
ROGERS W. Benjamin	Martin A Fisher School of Physics Brandeis University Waltham	USA
WANG Anna	Dept. of Chemistry University of New South Wales, Sydney Kensington	AUSTRALIA

LOSOS Jonathan	Dept. of Biology Washington University Saint Louis	USA
KAWATA Masakado	Graduate School of Life Sciences Tohoku University Sendai	JAPAN
MENKE Douglas	Dept. of Genetics University of Georgia Athens	USA
WHITING Martin	Dept. of Biological Sciences Macquarie University Sydney	AUSTRALIA (USA)
Cell death, fluctuating asymmetry, and the precise specification of Drosophila organ sizes		
LUBENSKY David K.	Dept. of Physics University of Michigan Ann Arbor	USA
LEOPOLD Pierre	Genetics and Developmental Biology Unit Institut Curie – Centre de Recherche Paris	FRANCE
Deconstructi	ing neurobiology of settlement decision-making in	ı coral larvae
MATZ Mikhail	Dept. of Integrative Biology The University of Texas at Austin	USA
JEKELY Gaspar	Living Systems Institute University of Exeter	UK (GERMANY)
Cell-specific, photocontrollable neuropharmacology in the behaving mouse		
MOUROT Alexandre	Neuroscience Paris Seine Sorbonne Université - UPMC Paris	FRANCE
ELLIS-DAVIES Graham	Dept of Neuroscience Mount Sinai School of Medicine New York	USA

Does Evolution Repeat Itself? Genome Evolution and Phenotypic Convergence in Island Lizards

The extracellular space of the brain: a multi-modal analysis from nano-structure to in vivo function

NÄGERL Valentin	Interdisciplinary Institute for Neuroscience University of Bordeaux, CNRS	FRANCE (GERMANY)
HRABETOVA Sabina	Dept. of Cell Biology SUNY Downstate Medical Center Brooklyn	USA
NEDERGAARD Maiken	Center for Translatioal Neuromedicie University of Copenhagen, Panum	DENMARK
NISHIZAWA Seiichi	Dept. of Chemistry, Graduate School of Science Tohoku University Sendai	JAPAN
Adaptive	asexual evolution in cancer, corals and seagrasses	6 - ADAPTASEX
REUSCH Thorsten	Dept. of Marine Evolutionary Ecology GEOMAR Helmholtz Centre for Ocean Research University of Kiel	GERMANY
BAUMS Iliana	Dept. of Biology Pennsylvania State University University Park	USA (GERMANY)
WERNER Benjamin	Barts Cancer Institute QMUL London	UK (GERMANY)
Elucidatin	g the mechanism of membrane fusion using DNA	nanostructures
ROY Rahul	Lab. for Nanobiology, Dept. of Chemical Engineering Indian Institute of Science Bangalore	INDIA
AKSIMENTIEV Aleksei	Dept. of Physics University of Illinois at Urbana-Champaign Urbana	USA
HOWORKA Stefan	Dept. of Chemistry Institute of Structural Molecular Biology University College London	UK (AUSTRIA)

T cell crowd control

TEXTOR Johannes	Dept. of Tumour Immunology Radboud University Medical Center Nijmegen	THE NETHERLANDS (GERMANY)
MANDL Judith	Dept. of Physiology and Complex Traits Group McGill University Montreal	CANADA (AUSTRIA)
PARISI	Computer Engineering Dept.	ARGENTINA
Daniel	Buenos Aires Institute of Technology	

Evolution of conformational and kinetic ensembles during functional transitions

TOKURIKI Nobuhiko	Michael Smith Laboratories University of British Columbia Vancouver	CANADA (JAPAN)
FRASER James S.	Bioengineering and Therapeutic Sciences University of California San Francisco	USA
NOJI Hiroyuki	Dept. of Applied Chemistry University of Tokyo	JAPAN
OSUNA Silvia	CompBioLab group Institute of Computational Chemistry and Catalysis (IQCC) University of Girona, ICREA	SPAIN

Covalent modification and regulation of proteins by CO2 using Chlamydomonas as a model system

VOCADLO	Depts. of Molecular Biology & Biochemistry and	CANADA
David	Chemistry	
	Simon Fraser University	
	Burnaby	
CAMPBELL	Dept. of Chemistry, School of Science	JAPAN
Robert E.	The University of Tokyo	(CANADA)
SMITH	Dept. of Plant Sciences	UK
Alison G.	University of Cambridge	

A living optically-communicating neural network

HUMAR Matjaž	Condensed Matter Physics Dept. Humar Lab for Bio-integrated Photonics Jožef Stefan Institute, University of Ljubljana	SLOVENIA
CHOI Myunghwan	Dept. of Biomedical Engineering / Neurophotonics Lab Sungkyunkwan University Suwon	KOREA
IM Hyungsoon	Center for Systems Biology Massachusetts General Hospital Harvard Medical School Boston	USA (KOREA)

Large-scale mapping of intracellular dendritic dynamics during memory formation and replay

JAYANT	Dept. of Biomedical Engineering	USA
Krishna	Purdue University	(INDIA)
	West Lafayette	
EWELL	Institute for Experimental Epileptology and	GERMANY
Laura	Cognition Research	(USA)
	University of Bonn-Medical Center	

The mechanics and energetics of insect herbivory: from cutting 'machines' to ecosystem structure

LABONTE David	Dept. of Bioengineering The Imperial College of Science, Technology and Medicine London	UK (GERMANY)
BACCA Mattia	Dept. of Mechanical Engineering University of British Columbia Vancouver	CANADA (ITALY)
HOLT Natalie	Dept. of Biology University of California, Riverside	USA (UK)

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

NOUR-ELDIN Hussam Hassan	Dept. of Dynamic Molecular Interactions Institute of Plant and Environmental Sciences Copenhagen University Frederiksberg	DENMARK
BAND Leah	Division of Plant and Crop Science, School of Biosciences University of Nottingham Loughborough	UK
KAWATE Toshimitsu	Dept. of Molecular Medicine Cornell University Ithaca	USA (JAPAN)
SHANI Eilon	School of Plant Sciences and Food Security Tel Aviv University	ISRAEL

Ménage a trois: balancing predator-prey interactions in a host-microbiomephageome ecosystem

PERSAT Alexandre	School of life sciences EPFL Lausanne	SWITZERLAND (FRANCE)
NADELL Carey	Dept. of Biological Sciences Dartmouth College Hanover	USA
	Mechanosensitive dynamics at the fertilisation sy	napse
RUPRECHT Verena	Cell and Tissue Dynamics Group Centre for Genomic Regulation (CRG) University Pompeu Fabra (UPF) Barcelona	SPAIN (AUSTRIA)
LIU Yan-Jun	Shanghai Institute of Cardiovascular Diseases, and Institutes of biomedical sciences Fudan University Shanghai	CHINA
PAULI Andrea	Pauli Lab. IMP Vienna	AUSTRIA (GERMANY)

A new role for aging: origin of cellular differentiation and the evolution of complex life

SAARIKANGAS Juha	Helsinki Institute of Life Science HiLIFE Molecular and Integrative Biosciences Research Program University of Helsinki	FINLAND			
RATCLIFF William	Dept. of Biology, School of Biological Sciences Georgia Institute of Technology Atlanta	USA			
Chance or curse? The consequences of hybridization in a changing world					
SCHUMER Molly	Dept. of Biology Stanford University	USA			
BANK Claudia	Evolutionary Dynamics Group Instituto Gulbenkian de Ciência Oeiras	PORTUGAL (GERMANY)			
ROCHMAN Chelsea	Dept. of Ecology and Evolutionary Biology University of Toronto	CANADA (USA)			
SOUSA Vitor C	Centre for Ecology, Evolution and Environmental changes University of Lisbon	PORTUGAL			