



International

**Human Frontier
Science Program**

Organization

HFSP AWARDS 2022

LONG-TERM FELLOWSHIPS

as approved by the Board of Trustees (March 2022)

The HFSP fellowship program funds innovative, ground-breaking projects that have the potential to advance knowledge in the applicants' field of study or open a new approach to a research problem. High risk research is supported.

Long-term fellowships provide 3 years of support for applicants with a degree in the life science to obtain training in a new area of research in an outstanding laboratory of their choice in another country. Applicants are expected to broaden their horizon and to move into a new research field that is different from their doctoral studies or previous postdoctoral training.

ADELHOEFER Nico Germany	From	Technical University of Dresden Dresden Germany	<i>Experimental control over sleep cognition via transcranial focused ultrasound</i>
	To	Radboud University Nijmegen Netherlands	Supervisor: VERHAGEN Lennart
ATLAN Gal Israel/France	From	The Hebrew University of Jerusalem Jerusalem Israel	<i>An adaptive role of mammalian cortex in shaping innate visual behavior</i>
	To	University of California, San Francisco San Francisco USA	Supervisor: SCANZIANI Massimo
BAG Pushan India	From	Umeå University Umeå Sweden	<i>Assembly, dynamics, and plasticity of plastid translocon biogenesis</i>
	To	The University of Tennessee Knoxville USA	Supervisor: BRUCE Barry
BIRAM Adi Israel	From	Weizmann Institute of Science Rehovot Israel	<i>Antigen recognition machineries of gamma delta T cells in the skin during health and disease</i>
	To	University of California, San Francisco San Francisco USA	Supervisor: CYSTER Jason
CROSS Kevin Canada	From	Queen's University Kingston Canada	<i>Somatosensory processing in a cerebello-cortical loop for adaptive control</i>
	To	The University of North Carolina Chapel Hill USA	Supervisor: HANTMAN Adam
D'ARIO Marco Italy	From	John Innes Center Norwich UK	<i>Cell size-dependent sex determination</i>
	To	Stanford University School of Medicine Stanford USA	Supervisors: LESLIE Andrew BERGMANN Dominique

DE LA CALLE ARREGUI Celia Spain	From	Spanish National Cancer Research Centre Madrid Spain	<i>Nutrient-regulated posttranslational modifications drive metastasis formation</i>
	To	Vlaams Instituut Voor Biotechnology (VIB) Leuven Belgium	Supervisor: FENDT Sarah-Maria
DE VIRGILIIS Francesco Italy	From	Imperial College London London UK	<i>Light induces lymph node activation via a sympathetic eye- to-lymph node pathway</i>
	To	University of Geneva Geneva Switzerland	Supervisor: SCHEIERMANN Christoph
DOLENSEK Nate Slovenia	From	Ludwig Maximilian University of Munich Max Planck Institute of Neurobiology Martinsried Germany	<i>Circuits for perception of state of self and others</i>
	To	University of California, Berkeley Berkeley USA	Supervisor: TSAO Doris
DOMER Adi Israel	From	Ben-Gurion University of the Negev Beer Sheva Israel	<i>Glucose regulation in nectarivorous birds</i>
	To	University of California, Berkeley Berkeley USA	Supervisors: DUDLEY Robert SWEAZEA Karen
DUNSING Valentin Germany	From	University of Potsdam Potsdam Germany	<i>Symmetry breaking in multicellular self-organization: a quantitative imaging approach</i>
	To	Institut de Biologie du Développement de Marseille Marseille France	Supervisor: LENNE Pierre-François

DZIEKAN Jerzy Poland	From	Nanyang Technological University Singapore Singapore	<i>Functional proteome landscape of malaria parasite during the life cycle in host and vector</i>
	To	The Walter and Eliza Hall Institute of Medical Research Parkville Australia	Supervisor: COWMAN Alan
EISENBERG-BORD Michal Israel	From	Weizmann Institute of Science Rehovot Israel	<i>Monitoring and manipulating inter-organellar contact-sites during mycobacterial infection</i>
	To	University of Cambridge Cambridge UK	Supervisor: RAMAKRISHNAN Lalita
EL-QUESSNY Malak USA/Egypt	From	University of California, Berkeley Berkeley USA	<i>Dissecting the structure-function consequences of mechanical stress on intact neural circuits</i>
	To	ICFO - The Institute of Photonic Sciences Castelldefels Spain	Supervisor: KRIEG Michael
FISCH Daniel Germany	From	Imperial College London London UK	<i>Dynamic threat assessment and signal integration by innate immune signaling complexes</i>
	To	Boston Children's Hospital Boston USA	Supervisor: KAGAN Jonathan
FRITSCHÉ Matthias Germany	From	Radboud University Nijmegen Netherlands	<i>Dopaminergic basis of learning temporal regularities in perceptual decisions</i>
	To	University of Oxford Oxford UK	Supervisor: LAK Armin
GARONE Maria Giovanna Italy	From	Sapienza University of Rome Rome Italy	<i>Microtechnology-based limbic-cortex axis in 3D: modeling human neurodevelopment and disease</i>
	To	Murdoch Children's Research Institute Parkville Australia	Supervisor: VELASCO Silvia

GEIER Benedikt Germany	From	Max Planck Institute for Marine Microbiology Bremen Germany	<i>Metabolic and cell–cell interactions of Helicobacter pylori and stem cells of the gastric glands</i>
	To	Stanford University School of Medicine Stanford USA	Supervisor: AMIEVA Manuel
GONZALEZ MANJON Anna Spain	From	The Netherlands Cancer Institute Amsterdam Netherlands	<i>Uncovering the nuclear dynamics of telomeres upon replication stress</i>
	To	Children's Medical Research Institute Sydney Australia	Supervisors: CESARE Anthony PICKETT Hilda
HAGIHARA Kenta Japan	From	Friedrich Miescher Institute Basel Switzerland	<i>Mapping the neuromodulatory heterogeneity in decision making</i>
	To	Allen Institute for Brain Science Seattle USA	Supervisor: SVOBODA Karel
HAYAT Hanna France/Israel	From	Tel Aviv University Tel Aviv Israel	<i>Understanding the neural mechanism underlying affiliative social behavior</i>
	To	University of California, Los Angeles Los Angeles USA	Supervisor: HONG Weizhe
HENNELL JAMES Rory UK	From	University of Oxford Oxford UK	<i>Biochemical and structural characterisation of the mycobacterial T4SS-like/T7SS conjugation system</i>
	To	University Medical Center Hamburg-Eppendorf Hamburg Germany	Supervisor: MARLOVITS Thomas

HERENT Coralie France	From	Paris-Saclay University Gif-sur-Yvette France	<i>Cell-specific functional connectivity of cerebellar outputs for locomotor learning</i>
	To	Champalimaud Centre for the Unknown Lisbon Portugal	Supervisor: CAREY Megan
HIMMEL Nathaniel USA	From	Georgia State University Atlanta USA	<i>Evolutionary, expression, and functional characterization of ancient putative chemosensors</i>
	To	University of Lausanne Lausanne Switzerland	Supervisor: BENTON Richard
HOPPE Caroline Germany	From	University of Manchester Manchester UK	<i>Characterizing how pioneer transcription factors and chromatin structure regulate genome activation</i>
	To	Yale University New Haven USA	Supervisor: GIRALDEZ Antonio
JAY Paul France	From	University of Montpellier Montpellier France	<i>NAMUH -- A human genomic perspective on the evolution of chromosomal inversions</i>
	To	University of Copenhagen Copenhagen Denmark	Supervisors: NIELSEN Rasmus KORNELIUSSEN Thorfinn
JUNYENT ESPINOSA Sergi Spain	From	King's College London London UK	<i>Metabolism as an integrator that coordinates morphogenesis in the developing mammalian embryo</i>
	To	California Institute of Technology Pasadena USA	Supervisor: ZERNICKA-GOETZ Magdalena
KATZ Noa Israel	From	Technion, Israel Institute of Technology Haifa Israel	<i>Homeostasis circuit for studying and treating gene dosage-dependent disorders</i>
	To	Stanford University Redwood City USA	Supervisors: GAO Xiaojing LUO Lique

KITOKO Jamil Brazil/Angola	From	Universidade Federal do Rio de Janeiro Rio de Janeiro Brazil	<i>Neuronal heme sensing in metabolic adaptation to infection</i>
	To	Fundacao Calouste Gulbenkian Lisboa Portugal	Supervisor: SOARES Miguel
LINDENHOFER Dominik Austria	From	IMBA - Institute of Molecular Biotechnology Vienna Austria	<i>Systematic characterization of SNPs in CREs associated with congenital heart disease</i>
	To	European Molecular Biology Laboratory Heidelberg Germany	Supervisor: STEINMETZ Lars
MAJEWSKI Dorothy Canada	From	University of British Columbia Vancouver Canada	<i>Understanding ancient woolly mammoth gene function through multiplex gene editing</i>
	To	Harvard Medical School Boston USA	Supervisor: CHURCH George
MEACOCK Oliver UK	From	University of Oxford Oxford UK	<i>Feeding or folding? Untangling the ecology of spatial patterning in microbial consortia</i>
	To	University of Lausanne Lausanne Switzerland	Supervisor: MITRI Sara
MIRANDA Magdalena Argentina/Italy	From	University of Buenos Aires Buenos Aires Argentina	<i>Neural basis of relative aversive value coding in mice</i>
	To	Institute for Functional Genomics Montpellier France	Supervisor: TROUCHE Stéphanie
MIZRAHI Orel Israel	From	Weizmann Institute of Science Rehovot Israel	<i>Unraveling the molecular determinants of human ALS progression in spinal cord organoids</i>
	To	University of California, San Diego La Jolla USA	Supervisor: YEO Gene

MOLENAARS Marte Netherlands	From	University of Amsterdam Amsterdam Netherlands	<i>Delineating control of translation upon iron starvation</i>
	To	New York University School of Medicine New York USA	Supervisor: POSSEMATO Richard
MURIA Aurélie France	From	University Paul Sabatier Toulouse France	<i>Neuronal changes following pathogen infection: mechanisms underpinning sickness-related behaviors</i>
	To	Technical University of Munich Munich Germany	Supervisor: GRUNWALD KADOW Ilona
OFIR Gal Israel	From	Weizmann Institute of Science Rehovot Israel	<i>Exploring the combinatorial space of plant immune receptors and pathogen signals</i>
	To	Max Planck Institute for Developmental Biology Tübingen Germany	Supervisor: WEIGEL Detlef
ÖZÇETE Özge Demet Turkey	From	Institute for Auditory Neuroscience Goettingen Germany	<i>Spatial and temporal scales of serotonin neuromodulation</i>
	To	Harvard Medical School Boston USA	Supervisor: KAESER Pascal
PARNANDI Nishita India	From	Harvard University Boston USA	<i>Genome-wide profiling and targeted editing of chromatin state at double-strand breaks in cancer</i>
	To	The Francis Crick Institute London UK	Supervisor: BOULTON Simon

PFITZNER Anna-Katharina Germany	From	University of Geneva Geneva Switzerland	<i>Molecular mechanism of ERAD-M by in vitro reconstitution</i>
	To	Harvard Medical School Boston USA	Supervisor: RAPOPORT Tom
RAJAKUMAR Arjuna Canada	From	McGill University Montreal Canada	<i>The cellular and developmental genetic mechanisms underlying germline response to climate change</i>
	To	Whitehead Institute for Biomedical Research Cambridge USA	Supervisor: LEHMANN Ruth
ROGALLA Svana Germany	From	Gent University Gent Belgium	<i>Revealing the control of epithelial mechanics during wound healing using in vivo force manipulation</i>
	To	Basque Centre for Biophysics Leioa Spain	Supervisor: SOLON Jerome
RUDNIZKY Sergei Israel	From	Technion - Israel Institute of Technology Haifa Israel	<i>Deciphering the nature of genomic conflict using locus- specific chromatin perturbation and capture</i>
	To	Johns Hopkins University School of Medicine Baltimore USA	Supervisors: HA Taekjip WU Carl
SATO Sumire Japan/Canada	From	University of Massachusetts Amherst USA	<i>Influence of sleep memory consolidation on spinal neuroplasticity mechanisms in humans</i>
	To	University of Toronto Toronto Canada	Supervisor: MASANI Kei

SAVAGE Aaron UK	From	University of Sheffield Sheffield UK	<i>Are endothelial cells regulated differently during limb regeneration than during development?</i>
	To	Harvard University Cambridge USA	Supervisor: WHITED Jessica
SCHLEYER Guy Israel/Germany	From	Weizmann Institute of Science Rehovot Israel	<i>The ecological role of bacterial specialized metabolites in bacteria-microalgae interactions</i>
	To	Leibniz Institute for Natural Product Research and Infection Biology Jena Germany	Supervisor: HERTWECK Christian
SCHURR Roey Israel	From	The Hebrew University of Jerusalem Jerusalem Israel	<i>Using computational models to link dynamics of brain plasticity with behavioral changes over time</i>
	To	Harvard University Cambridge USA	Supervisor: GERSHMAN Samuel
SINGH Shubham India	From	Indian Institute of Science Education and Research Pune India	<i>Unravelling the mechanisms of bis(monoacylglycero)phosphate synthesis and function in endolysosomes</i>
	To	Harvard University Boston USA	Supervisors: FARESE Robert WALTHER Tobias
SUZUKI Miyuki Japan	From	Hiroshima University Higashi-Hiroshima Japan	<i>Functional cell atlas of neural crest cell contribution to newt development and regeneration</i>
	To	California Institute of Technology Pasadena USA	Supervisor: BRONNER Marianne

TAYLOR Benjamin UK/Germany	From	University College London London UK	<i>Investigating the regulomic basis of major evolutionary transitions</i>
	To	Purdue University West Lafayette USA	
TOPARLAK Omer Duhan Turkey	From	University of Trento Povo Italy	<i>Templated polypeptide synthesis inside a nanopore cavity</i>
	To	University of Oxford Oxford UK	
UEMATSU Masaaki Japan	From	The University of Tokyo Tokyo Japan	<i>Chemical and optogenetic approaches to identify and quantify the membrane sources of autophagosomes</i>
	To	Cornell University Ithaca USA	
VAN DEN BRINK Susanne Carina Netherlands	From	Hubrecht Institute Utrecht Netherlands	<i>Haemogenic gastruloids: a novel approach to generate and study blood stem cells in vitro</i>
	To	Hospital del Mar Medical Research Institute Barcelona Spain	
XIAO Yi China	From	Free University of Berlin Berlin Germany	<i>Defining mechanisms of metabolic-epigenetic crosstalk that drive cancer initiation</i>
	To	UT Southwestern Medical Center Dallas USA	

YPERMAN Klaas
Belgium

From Vlaams Instituut Voor Biotechnology
(VIB) - Ghent University
Ghent
Belgium

***Physiological functions and
molecular mechanisms of
neuronal ER-phagy***

To Leibniz-Forschungsinstitut für
Molekulare Pharmakologie
Berlin
Germany

Supervisor:
HAUCKE Volker

ZADA David
Israel

From Bar-Ilan University
Ramat-Gan
Israel

***Development of neural circuits
for cooperative behavior in
schooling fish***

To University of California, San Diego
La Jolla
USA

Supervisor:
LOVETT-BARRON Matthew