



International

**Human Frontier  
Science Program**

Organization

## **HFSP AWARDS 2023**

### **LONG-TERM FELLOWSHIPS**

**as approved by the Board of Trustees (March 2023)**

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.

<b>AHMED Mai</b> Egypt	From	Okinawa Institute of Science and Technology Okinawa Japan	<b><i>Deciphering the role of outer radial glia in autism</i></b>
	To	The Hospital for Sick Children Toronto Canada	Supervisor: LI Yun
<b>ALGOV Itay</b> Israel	From	Ben-Gurion University of the Negev Beer-Sheva Israel	<b><i>Profiling tumor proteolysis with genetically-encoded signaling integrators</i></b>
	To	Dana-Farber Cancer Institute Boston USA	Supervisor: ZHOU Xin
<b>ALLANKI Srinivas</b> India	From	Max Planck Institute for Heart and Lung Research Bad Nauheim Germany	<b><i>Investigating the cell-matrix mechano-chemical feedback loops as determinants of tissue fate</i></b>
	To	The Francis Crick Institute London UK	Supervisor: SAHAI Erik
<b>ALMAGRO SANTIAGO Jorge</b> Spain	From	The Francis Crick Institute London UK	<b><i>Characterizing skin cancer mechanics and the mechanosensory tumor microenvironment</i></b>
	To	The Rockefeller University New York USA	Supervisor: FUCHS Elaine
<b>BELLECC Maelle</b> France	From	University of Montpellier Montpellier France	<b><i>Transcriptional adaptation during vertebrate development at the single-cell level</i></b>
	To	Max Planck Institute for Heart and Lung Research Bad Nauheim Germany	Supervisor: STAINIER Didier

<b>BOBONIS Jacob</b> Greece	From	European Molecular Biology Laboratory Heidelberg Germany	<b><i>Viral cooperation as a novel mechanism to overcome bacterial defenses</i></b>
	To	University of Vienna Vienna Austria	Supervisor: POLZ Martin
<b>CHAIYASITDHI Atitheb</b> Thailand	From	Institut Curie Paris France	<b><i>Gating mechanism of insect auditory transduction channels</i></b>
	To	University of Leicester Leicester UK	Supervisors: WARREN Benjamin ROSATO Ezio
<b>DAS Poulomi</b> India	From	Nanyang Technological University Singapore Singapore	<b><i>Structure of the synaptic vesicle</i></b>
	To	University of California, San Francisco San Francisco USA	Supervisors: EDWARDS Robert STROUD Robert
<b>DE BENTO FLORES Carlos Eduardo</b> Portugal	From	Institute for Research and Innovation in Health Porto Portugal	<b><i>Investigation of uropathogenic E. coli virulence mechanisms in a human bladder microtissue model</i></b>
	To	Biozentrum University of Basel Basel Switzerland	Supervisor: DEHIO Christoph
<b>DHARAMSHI Jennah</b> Canada/Sweden	From	Uppsala University Uppsala Sweden	<b><i>The role of microbiomes in the origin of animals</i></b>
	To	Spanish National Research Council Madrid Spain	Supervisor: RUIZ-TRILLO Iñaki

<b>GOEL Isha</b> India	From	The University of Tokyo Tokyo Japan	<b><i>Unraveling limb size determinants using mouse-gerboa chimera</i></b>
	To	Monash University Clayton Australia	Supervisor: ROSELLO DIEZ Alberto
<b>GUSTAFSSON Johan</b> Sweden	From	Chalmers University of Technology Gothenburg Sweden	<b><i>Utilizing spatial transcriptomics for uncovering the hypoxic transcriptional landscape of tumors</i></b>
	To	Broad Institute of MIT and Harvard Cambridge USA	Supervisor: GETZ Gad
<b>GUZZETTA Katherine</b> USA	From	University College Cork Cork Ireland	<b><i>Investigating the mechanistic role of the gut microbiome in modulating depressive behavior in mice</i></b>
	To	ETH Zurich Zurich Switzerland	Supervisor: PLATT Randall
<b>HAN Jichang</b> China	From	University of Chinese Academy of Sciences Shanghai China	<b><i>Investigating the cross talk between glioma cells and oligodendrocytes in brain tumors</i></b>
	To	Miller School of Medicine of the University of Miami Coral Gables USA	Supervisor: IAVARONE Antonio
<b>HERNANDEZ-TERAN Alejandra</b> Mexico	From	Universidad Nacional Autonoma de Mexico Mexico City Mexico	<b><i>Disentangling microbiome effects on plant adaptation</i></b>
	To	University of California, Irvine Irvine USA	Supervisor: REBOLLEDA-GOMEZ Maria

<b>HIROKAWA Soichi</b> USA	From	California Institute of Technology Pasadena USA	<b><i>Growth and folding of a wing origami</i></b>
	To	Developmental Biology Institute of Marseille Marseille France	Supervisor: LECUIT Thomas
<b>HUISMAN Jana</b> <b>Sanne</b> The Netherlands	From	ETH Zurich Zurich Switzerland	<b><i>Rock-paper-scissors dynamics between mobile genetic elements</i></b>
	To	Massachusetts Institute of Technology Cambridge USA	Supervisor: GORE Jeff
<b>JUKIC Nebojsa</b> Croatia/Bosnia and Herzegovina	From	Cornell University New York USA	<b><i>Mapping the spatiotemporal organization and mechanosensitivity of gamma delta T cell synapses</i></b>
	To	Institute for Atomic and Molecular Physics Amsterdam The Netherlands	Supervisors: GANZINGER Kristina TANS Sander
<b>KIM Dong-Yoon</b> Republic of Korea	From	Seoul National University Seoul Republic of Korea	<b><i>A role for enteric neuroimmune interactions in the development of obesity</i></b>
	To	The Rockefeller University New York USA	Supervisor: MUCIDA Daniel
<b>LEE Ching-Han</b> Taiwan	From	Academia Sinica Taipei Taiwan	<b><i>Brain remodeling mediated by molecular memory of the social conflict in the ant <i>Harpegnathos</i></i></b>
	To	New York University New York USA	Supervisors: DESPLAN Claude REINBERG Danny

**LEE Christopher**  
Singapore

From Nanyang Technological University  
Singapore  
Singapore

***Exploring immune-pancreatic  
progenitor crosstalk during  
pancreatic development***

To King's College London  
London  
UK

Supervisor:  
SPAGNOLI Francesca

**LIU Shanshan**  
China

From Peking Union Medical College  
Beijing  
China

***Understanding the role of  
mitochondrial redox sensing in  
cancer***

To The Rockefeller University  
New York  
USA

Supervisor:  
BIRSOY Kivanc

**LUNSFORD Elias**  
USA

From University of Florida  
Gainesville  
USA

***During growth of sensory  
systems, how do sensorimotor  
loops adjust their gain?***

To Paris Brain Institute  
Paris  
France

Supervisor:  
WYART Claire

**MANELLA Gal**  
Israel/Germany

From Weizmann Institute of Science  
Rehovot  
Israel

***Artificial morphogenesis:  
creating a synthetic  
segmentation clock***

To California Institute of Technology  
Pasadena  
USA

Supervisor:  
ELOWITZ Michael

**MEIR Zohar**  
Israel/Germany

From Weizmann Institute of Science  
Rehovot  
Israel

***In-depth analysis of sporeling  
development as a model to study  
shoot meristem formation in  
plants***

To Gregor Mendel Institute of Molecular  
Plant Biology  
Vienna  
Austria

Supervisor:  
DOLAN Liam

<b>MOZZACHIODI Simone</b> Italy	From	Université Côte d'Azur Nice France	<b><i>A polymicrobial adaptive evolution framework to investigate co-evolution to stress</i></b>
	To	University of Cambridge Cambridge UK	Supervisor: PATIL Kiran
<b>MUTZEL Verena</b> Germany	From	Max Planck Institute for Molecular Genetics, Humboldt-Universität Berlin Germany	<b><i>Dissecting the combinatorial function of transcription factors during zygotic genome activation</i></b>
	To	CNRS Montpellier France	Supervisor: LAGHA Mounia
<b>NAAZ Farha</b> India	From	Indian Institute of Technology Bombay Mumbai India	<b><i>Activation and cargo interaction of molecular motors</i></b>
	To	University of Warwick Coventry UK	Supervisor: STRAUBE Anne
<b>OYA Satoyo</b> Japan	From	The University of Tokyo Tokyo Japan	<b><i>Uncovering the molecular mechanisms behind chromatin modification-directed mutation bias</i></b>
	To	University of California, Davis Davis USA	Supervisor: MONROE Grey
<b>PALATINI Umberto</b> Italy	From	University of Pavia Pavia Italy	<b><i>Hijacking mosquitoes: how arboviruses manipulate vector behaviour</i></b>
	To	The Rockefeller University New York USA	Supervisor: VOSSHALL Leslie

<b>PALOMINOS Fernanda</b> Chile	From	Universidad de Valparaiso Valparaiso Chile	<b><i>The regulatory and developmental basis of cranial lateral line evolution in cichlid fishes</i></b>
	To	University of Cambridge Cambridge UK	
<b>PHELPS Jasper</b> USA	From	Harvard Medical School Boston USA	<b><i>Coevolution of body morphology, neural circuits and behavior</i></b>
	To	École Polytechnique Fédérale de Lausanne Lausanne Switzerland	
<b>ROSSI Matteo</b> Italy	From	Ludwig Maximilian University Munich Germany	<b><i>Ant aggregation pheromones: from social behavior to neural coding</i></b>
	To	The Rockefeller University New York USA	
<b>SACCON Francesco</b> Italy	From	Queen Mary University of London London UK	<b><i>Membrane factors ensuring robustness of photosynthesis on a warming planet</i></b>
	To	Wageningen University Wageningen The Netherlands	
<b>SANTANGELO James</b> Canada	From	University of Toronto Toronto Canada	<b><i>Inferring the strength of selection along environmental gradients using whole-genome sequence data</i></b>
	To	University of California, Berkeley Berkeley USA	



<b>SHEINTUCH Liron</b> Israel	From	Weizmann Institute of Science Rehovot Israel	<b><i>Studying the role of synaptic connectivity in learning and memory via new voltage imaging techniques</i></b>
	To	University of California, Los Angeles Los Angeles USA	Supervisor: GOLSHANI Peyman
<b>SINHA Ameya</b> India	From	Nanyang Technological University Singapore Singapore	<b><i>Functional proteomics to dissect spatiotemporal dynamics of viral RNA bound macromolecular complexes</i></b>
	To	Helmholtz-Zentrum für Infektionsforschung Braunschweig Germany	Supervisor: MUNSCHAUER Mathias
<b>STOCK Jessica</b> Germany	From	Research Institute of Molecular Pathology Vienna Austria	<b><i>Molecular and morphogenetic characterization of early neurogenesis in cephalopods</i></b>
	To	Marine Biological Laboratory Woods Hole USA	Supervisor: ALBERTIN Caroline
<b>TANAKA Ryosuke</b> Japan	From	Yale University New Haven USA	<b><i>Behavioral functions and microcircuit mechanisms of heading representation in larval zebrafish</i></b>
	To	Technical University of Munich Munich Germany	Supervisor: PORTUGUES Ruben
<b>TSAY Jonathan</b> USA	From	UC Berkeley Berkeley USA	<b><i>Semantic-motor representation and plasticity for M1</i></b>
	To	MRC Cognition and Brain Sciences Unit Cambridge UK	Supervisor: MAKIN Tamar

<b>VEGA-PÉREZ Adrian</b> Spain	From	National Center for Biotechnology Madrid Spain	<b><i>Understanding tumor-immune interactions in cancer initiation and progression</i></b>
	To	Weill Medical College of Cornell University New York USA	Supervisor: DOW Lukas
<b>WESTERBERG Jacob</b> USA	From	Vanderbilt University Nashville USA	<b><i>Mapping the functional connectome for conscious perception</i></b>
	To	Netherlands Institute for Neuroscience- KNAW Amsterdam The Netherlands	Supervisor: ROELFSEMA Pieter
<b>WIENER David</b> Israel/USA	From	Weizmann Institute of Sciences Rehovot Israel	<b><i>Phytoplankton translational regulation: from models to communities</i></b>
	To	University of Washington Seattle USA	Supervisor: ARMBRUST Virginia
<b>YAMAGUCHI Sonomi</b> Japan	From	The University of Tokyo Tokyo Japan	<b><i>Discovery of new cyclic nucleotide immune receptors in human innate immunity</i></b>
	To	Dana-Farber Cancer Institute Boston USA	Supervisor: KRANZUSCH Philip
<b>ZENG Xiangsunze</b> China	From	The University of Tokyo Tokyo Japan	<b><i>Mechanistic investigations of the circuits driving spontaneous neuropathic pain</i></b>
	To	Boston Children's Hospital Boston USA	Supervisor: WOOLF Clifford

**ZILBERZWIGE-TAL**  
**Shai**  
Israel

From Tel Aviv University  
Tel Aviv  
Israel

***Dynamic spatiotemporal  
monitoring of cell state  
transitions***

To Massachusetts Institute of Technology  
Cambridge  
USA

Supervisor:  
ZHANG Feng