



HFSP AWARDS 2020

LONG-TERM FELLOWSHIPS

as approved by the Board of Trustees (March 2020)

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.

BARON Chloe FRANCE	From	Hubrecht Institute Utrecht THE NETHERLANDS	<i>Clonal dynamics and architecture of the blood stem cell niche</i>
	To	Stem Cell Program Boston Children's Hospital USA	Supervisor: ZON Leonard
BENNABI Isma FRANCE	From	Center for Interdisciplinary Research in Biology Collège de France Paris FRANCE	<i>Unraveling the molecular mechanics of mitotic chromosome assembly</i>
	To	IMBA - Institute of Molecular Biotechnology Vienna AUSTRIA	Supervisor: GERLICH Daniel
CAMPOS RODRIGUEZ Sergio Esteban MEXICO	From	National Laboratory of Genomics for Biodiversity CINVESTAV Irapuato MEXICO	<i>Uncovering the molecular link between regeneration and aging in Hydra</i>
	To	Department of Molecular and Cellular Biology University of California Davis USA	Supervisor: JULIANO Celina
CHEMLA Yonatan ISRAEL/FRANCE	From	Life-Sciences Ben-Gurion University Beer Sheva ISRAEL	<i>Characterizing the translation- initiation modes of operons in bacteria</i>
	To	Biological Engineering MIT Cambridge USA	Supervisor: VOIGT Christopher
CODA Davide ITALY	From	Developmental Signalling Laboratory The Francis Crick Institute London UK	<i>Engram epigenetics – A CRISPR-based approach to identify genes for the treatment of fear memories</i>
	To	Neuroepigenetics Laboratory Brain and Mind Institute, EPFL Lausanne SWITZERLAND	Supervisor: GRÄFF Johannes

DENEKE Victoria EL SALVADOR / GERMANY	From	Department of Cell Biology Duke University Durham USA	<i>Molecular and physical mechanisms of gamete binding and fusion in zebrafish</i>
	To	Research Institute of Molecular Pathology Vienna AUSTRIA	Supervisor: PAULI Andrea
EVANS Dominic UK	From	UCL Sainsbury Wellcome Centre University College London UK	<i>From vision to camouflage: behavioural computations in the cuttlefish</i>
	To	Max Planck Institute for Brain Research Frankfurt am Main GERMANY	Supervisor: LAURENT Gilles
FAN Xiao CHINA	From	School of Life Sciences Tsinghua University Beijing CHINA	<i>In situ characterization of eukaryotic sodium channels using cryoEM</i>
	To	Department of Molecular Biology Princeton University USA	Supervisor: YAN Nieng
FERREIRA Josie UK/SOUTH AFRICA	From	Department of Life Sciences Imperial College London UK	<i>Using visual proteomics to understand membrane dynamics in the malaria parasite P. falciparum</i>
	To	Centre for Structural Systems Biology University of Hamburg GERMANY	Supervisors: GILBERGER Tim and GRÜNEWALD Kay
FORLI Angelo ITALY	From	Department of Neuroscience and Brain Technologies Istituto Italiano di Tecnologia Genova ITALY	<i>From social networks to neural networks: imaging social memory in the bat hippocampus</i>
	To	Department of Bioengineering and the Helen Wills Neuroscience Institute UC Berkeley USA	Supervisor: YARTSEV Michael

GOLAN MAOR Yarden ISRAEL	From	Department of Biology Technion - Israel Institute of Technology Haifa ISRAEL	<i>Genomic characterization of regulatory elements associated with human breast milk production</i>
	To	Department of Bioengineering and Therapeutic Sciences University of California San Francisco USA	Supervisor: AHITUV Nadav
GREEN Ori ISRAEL	From	The Organic Chemistry Department Tel Aviv University ISRAEL	<i>A radical approach to histidine bioconjugation</i>
	To	The Department of Chemistry and Applied Biosciences ETH Zurich SWITZERLAND	Supervisor: MORANDI Bill
HANSEN Katja GERMANY	From	Department of Cell Biology University of Kaiserslautern GERMANY	<i>Exploring nuclear-independent transcription and the distribution of mRNAs during OXPHOS adaptation</i>
	To	Genetics Department Harvard Medical School Boston USA	Supervisor: CHURCHMAN Stirling
HENRIKUS Sarah GERMANY	From	School of Chemistry and Molecular Bioscience University of Wollongong AUSTRALIA	<i>Cryo-EM visualization of sister chromatid cohesion establishment at the replication fork</i>
	To	Macromolecular Machines The Francis Crick Institute London UK	Supervisor: COSTA Alessandro
HOPKINS Benjamin UK	From	Department of Zoology University of Oxford UK	<i>Charting the evolutionary history of a sex-specific innovation at the single-cell level</i>
	To	Department of Ecology and Evolution University of California Davis USA	Supervisor: KOPP Artyom

HOURI ZEEVI Leah ISRAEL	From	Sagol School of Neuroscience Tel Aviv University ISRAEL	<i>Mechanisms of a lifetime of behavior in Aedes aegypti mosquito females</i>
	To	Rockefeller University New York USA	Supervisor: VOSSHALL Leslie
HUNZIKER Mirjam SWITZERLAND	From	Laboratory for Protein and Nucleic Acid Chemistry The Rockefeller University New York USA	<i>The molecular mechanism of sex determination in a malaria parasite</i>
	To	Molecular Biology Department Umea University SWEDEN	Supervisor: BILLKER Oliver
JAHN Martin GERMANY	From	Marine Symbioses GEOMAR Helmholtz Centre for Ocean Research Kiel GERMANY	<i>Mapping the biogeography of the gut microbiome: from spatial ecology to disease resistance</i>
	To	Department of Zoology University of Oxford UK	Supervisor: FOSTER Kevin
JARRETT Benjamin UK	From	Department of Entomology Michigan State University East Lansing USA	<i>Male-male competition and host range evolution in an herbivorous leaf-footed bug</i>
	To	Department of Biology University of Lund SWEDEN	Supervisor: SVENSSON Erik
JORDAO Marta Joana Costa PORTUGAL	From	Department of Neuropathology University Medical Center Freiburg GERMANY	<i>Investigating the CNS lymphatic system and immune cell trafficking in brain metastasis</i>
	To	Department of Oncology Ludwig Institute for Cancer Research University of Lausanne SWITZERLAND	Supervisor: JOYCE Johanna

KIRSZENBLAT Leonie AUSTRALIA	From	Queensland Brain Institute The University of Queensland Brisbane AUSTRALIA	<i>Investigating the effects of sleep on neural computations in the olfactory system</i>
	To	Laboratory for Circuit Mechanisms of Sensory Perception RIKEN Center for Brain Science Wako JAPAN	Supervisor: KAZAMA Hokto
KOREN-HAUER Shany GERMANY	From	Friedrich Miescher Institute for Biomedical Research Biozentrum University Basel SWITZERLAND	<i>Role of post-translational modifications of mSWI/SNF chromatin remodeling complexes in human disease</i>
	To	Department of Pediatric Oncology Dana-Farber Cancer Institute Harvard Medical School Boston USA	Supervisor: KADOCH Cigall
KUK Alvin Chun Yin AUSTRALIA	From	Department of Biochemistry Duke University Durham USA	<i>Role of cholesterol metabolism in aging model of neuronal recovery</i>
	To	Neuroscience and Behavioural Disorders Programme Duke-NUS Medical School SINGAPORE	Supervisors: SILVER David and CROWSTON Jonathan
KUMAR Ananthanarayanan INDIA	From	Department of Structural Studies MRC Laboratory of Molecular Biology Cambridge UK	<i>Structural and biochemical investigation of Xist-mediated X-chromosome inactivation</i>
	To	Department of Molecular, Cellular and Developmental Biology Yale University New Haven USA	Supervisor: PYLE Anna Marie
LEV Itamar ISRAEL	From	Department of Neurobiology Tel Aviv University ISRAEL	<i>Deciphering the functions and mechanisms of brain-wide motor representations</i>
	To	Department for Neurobiology University of Vienna AUSTRIA	Supervisor: ZIMMER Manuel

LEVY Dana Rubi ISRAEL	From	Department of Neurobiology Weizmann Institute of Science Rehovot ISRAEL	<i>The ontogeny of behavior</i>
	To	Department of Neurobiology Harvard Medical School Boston USA	Supervisor: DATTA Sandeep Robert
LIN Hsiu-Chuan TAIWAN	From	Institute of Molecular Biology Academia Sinica Taipei TAIWAN	<i>Recording and programming human retina cell fates</i>
	To	Human Retina and Organoid Development Group Institute of Molecular and Clinical Ophthalmology Basel SWITZERLAND	Supervisor: CAMP Gray
LOUBIERE Vincent FRANCE	From	Institute of Human Genetics Montpellier FRANCE	<i>Deciphering the principles of enhancer cooperativity</i>
	To	Research Institute of Molecular Pathology Vienna AUSTRIA	Supervisor: STARK Alexander
MELI Alexandre CANADA	From	Microbiology and Immunology McGill University Montreal CANADA	<i>Macrophage – intestinal epithelial cell crosstalk in the integration of cell death and tissue repair</i>
	To	Department of Immunobiology Yale University New Haven USA	Supervisor: ROTHLIN Carla
METZL RAZ Eyal ISRAEL	From	Department of Genetics Weizmann Institute of Science Rehovot ISRAEL	<i>Chromatin dynamics in the sensitivity and robustness tradeoff of differentiating stem cells</i>
	To	Department of Genetics Stanford University Palo Alto USA	Supervisor: GREENLEAF William

MINZEL Waleed ISRAEL	From	Department of Immunology and Cancer Research Hebrew University, Jerusalem ISRAEL	<i>Synaptic immune molecules and neuronal circuits regulation</i>
	To	Department of Neuroscience University of Virginia, Charlottesville USA	Supervisor: KIPNIS Jonathan
NOBORI Tatsuya JAPAN	From	Department of Plant-Microbe Interaction Max Planck Institute for Plant Breeding Research Cologne GERMANY	<i>Spatially resolved single cell profiling of plant transcriptome and microbiota</i>
	To	Plant Molecular and Cellular Biology Laboratory The Salk Institute for Biological Studies La Jolla USA	Supervisor: ECKER Joseph
ROBINSON Serina USA	From	BioTechnology Institute University of Minnesota Saint Paul USA	<i>Deep learning to discover D-amino acids in protein backbones from microbial dark matter superphyla</i>
	To	Department of Microbiology ETH Zurich SWITZERLAND	Supervisor: PIEL Joern
ROTHSCHILD BUP Daphna ISRAEL	From	Department of Computer Science and Applied Mathematics and Cell Biology Weizmann Institute of Science Rehovot ISRAEL	<i>Assembly and function of heterogeneous human ribosomal DNA variants across populations and tissues</i>
	To	Department of Developmental Biology Stanford University USA	Supervisor: BARNA Maria
RUFF Tobias GERMANY	From	Department of Molecules, Signaling, Development Max Planck Institute of Neurobiology Munich GERMANY	<i>Investigating adult dLGN reinnervation using a biohybrid retinal ganglion cell multielectrode array</i>
	To	Department of Biosensors and Bioelectronics ETH Zurich SWITZERLAND	Supervisor: VOROS Janos

SAITO Makoto JAPAN	From	Laboratory of Epigenetics Friedrich Miescher Institute for Biomedical Research University of Basel SWITZERLAND	<i>Investigating archaeal horizontal gene transfer systems towards universal delivery tools</i>
	To	Broad Institute of MIT and Harvard Cambridge USA	Supervisor: ZHANG Feng
SALINAS SAAVEDRA Miguel CHILE	From	Whitney Laboratory for Marine Bioscience University of Florida Saint Augustine USA	<i>Mechanisms of cellular dedifferentiation in regeneration</i>
	To	Centre of Chromosomal Biology National University of Ireland Galway IRELAND	Supervisor: FRANK Uri
SÁNCHEZ VÁSQUEZ Estefanía PERU	From	Instituto Tecnológico de Chascomús National University of San Martín Chascomus ARGENTINA	<i>Interplay of morphogen gradients and cerebrospinal fluid pressure in the embryonic brain</i>
	To	Department of Biomedical Engineering Columbia University New York USA	Supervisor: NERURKAR Nandan
SIERIEBRIENNIKOV Bogdan UKRAINE	From	Department for Integrative Evolutionary Biology Max Planck Institute for Developmental Biology Tuebingen GERMANY	<i>Brain remodeling and deceleration of aging upon caste transition in the ant Harpegnathos saltator</i>
	To	Department of Biochemistry and Molecular Pharmacology New York University Langone School of Medicine USA	Supervisor: REINBERG Danny
SIMON Clémence FRANCE	From	Biology Department University of Lille FRANCE	<i>A chemical biology approach to unravel phosphatidylethanolamine transport and metabolism</i>
	To	Biochemistry Department University of Geneva SWITZERLAND	Supervisor: RIEZMAN Howard

SLEBODA David USA	From	Department of Ecology and Evolutionary Biology Brown University Providence USA	<i>Force generation and sensation in rapid plant movement</i>
	To	Department of Physiology McGill University Montreal CANADA	Supervisor: SHARIF NAEINI Reza
ŠTUNDL Jan CZECH REPUBLIC	From	Department of Zoology Charles University Prague CZECH REPUBLIC	<i>Role of cardiac neural crest in lamprey and axolotl heart development and regeneration</i>
	To	The Division of Biology and Biological Engineering California Institute of Technology Pasadena USA	Supervisor: BRONNER Marianne
TSUBOYAMA Kotaro JAPAN	From	Institute for Quantitative Biosciences The University of Tokyo JAPAN	<i>Dissection of the relationship between folding stability and biological lifetime of proteins</i>
	To	Department of Pharmacology and Center for Synthetic Biology Northwestern University Chicago USA	Supervisor: ROCKLIN Gabriel
VANDEPUTTE Doris BELGIUM	From	Department of Microbiology and Immunology KU Leuven BELGIUM	<i>Horizontal gene transfer in the gut microbiome and its therapeutic potential</i>
	To	Meinig School of Biomedical Engineering Cornell University Ithaca USA	Supervisor: BRITO Ilana
VEIGA Nuphar ISRAEL	From	School of Molecular Cell Biology and Biotechnology Tel Aviv University ISRAEL	<i>The influence of the pulmonary microbiome on the immune memory of endothelial cells</i>
	To	VIB Center for Cancer Biology KU Leuven BELGIUM	Supervisor: CARMELIET Peter

WEINBERG-SHUKRON Ariella ISRAEL/USA	From	Molecular Cell Biology Weizmann Institute of Science Rehovot ISRAEL	<i>Epigenetic plasticity and imprinting dynamics during development</i>
	To	Department of Genetics University of Cambridge UK	Supervisor: FERGUSON-SMITH Anne
WEINHARD Laetitia FRANCE	From	Mouse Biology Unit European Molecular Biology Laboratory Rome ITALY	<i>Investigation of sleep stage-dependent synaptic plasticity in the living brain</i>
	To	Department of Neuroscience and Physiology New York University School of Medicine USA	Supervisor: GAN Wenbiao
WEINHÄUPL Katharina AUSTRIA	From	Institut de Biologie Structurale Université Grenoble Alpes FRANCE	<i>The central role of c-di-AMP and of its synthesising enzyme CdaA in bacterial physiology</i>
	To	Department of Structural Biochemistry University of Porto PORTUGAL	Supervisor: MORAIS CABRAL João
YAN Lu CHINA	From	School of Life Sciences Tsinghua University Beijing CHINA	<i>Dissecting the molecular basis of human muscle stem cell heterogeneity and quiescence</i>
	To	Department of Pathology Brigham and Women's Hospital Boston USA	Supervisor: POURQUIE Olivier
ZHU Meng CHINA	From	Department of Physiology, Development and Neuroscience University of Cambridge UK	<i>Dissecting the function of temporal variation of gene expression in limb morphogenesis</i>
	To	Department of Genetics Harvard University Boston USA	Supervisor: TABIN Cliff