

HFSP AWARDS 2024

FELLOWSHIPS

as approved by the Board of Trustees (March 2024)

The HFSP fellowship program funds innovative, ground-breaking projects that have the potential to advance knowledge in the applicants' fields 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 sciences 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.

Cross-disciplinary fellowships are intended for postdoctoral fellows with a degree from outside the life sciences (e.g. physical sciences, chemistry, mathematics, engineering or computer sciences) who wish to receive training in biology. Fellows receive 3 years of support to obtain training in an outstanding laboratory of their choice in another country. Applicants for this fellowship are expected to move into a new research field through a significant change in discipline.

ABDULLA Amith Zafal India	From	Ecole Normale Supérieure de Lyon Lyon France	Design and build a synthetic single cell epigenetic oscillator
	То	Brandeis University Waltham USA	Supervisors: KONDEV Jane RAGUNATHAN Kaushik
ANSIL B. R. India	From	National Centre for Biological Sciences Bangalore India	Why do stressed bats shed more viruses?
	То	University of Oklahoma Norman USA	Supervisors: BANERJEE Arinjay BECKER Daniel
BENCIVENGA Federica Italy	From	Sapienza University of Rome Rome Italy	Neural mechanisms for dynamic action planning and execution as we move through space
	То	University of Montreal Montreal Canada	Supervisors: CISEK Paul GREEN Andrea
BIGLARI Nasim Germany/Iran	From	Max Planck Institute for Metabolism Research Cologne Germany	Investigating the effects of chronic stress on gut-brain interactions
	То	Massachusetts Institute of Technology Cambridge USA	Supervisor: ANIKEEVA Polina
BOREIKAITE Vytaute Lithuania	From	University of Cambridge Cambridge UK	Structural basis of the human spliceosome quality control
	То	Research Institute of Molecular Pathology Vienna Austria	Supervisor: PLASCHKA Clemens

BORM Lars Netherlands	From	Karolinska Institutet Stockholm Sweden	Combining spatial-omics with AI to model developmental gene regulation in space and time
	То	VIB Institute for Biotechnology Leuven Belgium	Supervisor: AERTS Stein
BUCHANAN Charles UK/Ireland	From	University of Oxford Oxford UK	Protein dynamics and function in the evolutionary history of the CO2 fixing enzyme Rubisco
	То	Max Planck Institute for Terrestrial Microbiology Marburg Germany	Supervisor: HOCHBERG Georg
CAMPETELLA Florencia Argentina/Spain	From	Max Planck Institute for Chemical Ecology Jena Germany	Unraveling the genetic basis of natural variation in secretion pathways
	То	VIB Institute for Biotechnology Leuven Belgium	Supervisor: VERSTREPEN Kevin
CHIBA Kosuke Japan	From	Osaka University Osaka Japan	Targeted epigenome editing using induced proximity-based small molecules
	То	University of California, Berkeley Berkeley USA	Supervisor: NOMURA Daniel
DAHL Kristin USA	From	University of Colorado Aurora USA	Analysis of molecular changes of the nervous system in C. elegans upon circadian rhythm entrainment
	То	Biozentrum University of Basel Basel Switzerland	Supervisor: SPANG Anne

DAVOINE Federico Uruguay	From	Universidad de la República Montevideo Uruguay	Genetically encoded voltage indicators to uncover the role of Golgi cells in pattern classification
	То	Institut de Biologie de l'Ecole Normale Supérieure Paris France	Supervisors: DIEUDONNÉ Stéphane VILLETTE Vincent
DE HAAN Diede Netherlands	From	Weizmann Institute of Science Rehovot Israel	Reconstructing the ancestral architecture of animal cells
	То	Institut Pasteur Paris France	Supervisor: BRUNET Thibaut
DORON Adi Israel	From	The Hebrew University of Jerusalem Jerusalem Israel	The neuronal mechanisms underlying state-dependent odor preference
	То	Harvard Medical School Boston USA	Supervisor: LIBERLES Stephen
DUFVA Olli Finland	From	University of Helsinki Helsinki Finland	Deciphering genomic determinants of immunity in tumour organoid models at single-cell resolution
	То	Wellcome Sanger Institute Cambridge UK	Supervisor: GARNETT Mathew
FINK Justus Wilhelm Germany	From	ETH Zurich Zurich Switzerland	Microbial consortia with direct electron transfer: in situ visualization of community robustness
	То	California Institute of Technology Pasadena USA	Supervisor: ORPHAN Victoria

GABEL Clinton USA	From	Purdue University West Lafayette USA	Uncovering the secret world of microbial enzymatic decorated nanowires
	То	Philipps-Universität Marburg Marburg Germany	Supervisor: SCHULLER Jan
HERSH Taylor USA	From	Dalhousie University Nova Scotia Canada	Vocal communication and the evolution of hyper-cooperative societies
	То	University of Bristol Bristol UK	Supervisor: KING Stephanie
HSU Sheng-Chieh Taiwan	From	National Tsing Hua University Hsinchu Taiwan	Unmasking the role of nuclear antioxidant systems in human disease
	То	University of Texas Southwestern Medical Center Dallas USA	Supervisors: DEBERARDINIS Ralph GARCIA-BERMUDEZ Javier
HUSSIEN Amro Sudan	From	ETH Zurich Zurich Switzerland	Decoding mechano-epigenetic memories in tissue regeneration
	То	Max Planck Institute for Molecular Biomedicine Muenster Germany	Supervisor: WICKSTRÖM Sara
JAUREGUI-LOZANO Juan Colombia/Bolivia	From	Purdue University West Lafayette USA	Elucidating the role of R-loops in hematopoiesis and bone marrow niche remodeling in aging
	То	European Molecular Biology Laboratory Heidelberg Germany	Supervisor: ZAUGG Judith

LONG-TERM FELLOWSHIPS

KHUNTIA Purnati India	From	Tata Institute of Fundamental Research Hyderabad India	Molecular mechanisms and tissue mechanics driving spinal cord regeneration
	То	University of Côte d'Azur Nice France	Supervisors: CIGLIOLA Valentina RAUZI Matteo
KOL Adi Israel	From	The Hebrew University of Jerusalem Jerusalem Israel	The role of simultaneous population dynamics in associative learning
	То	Friedrich Miescher Institute Basel Switzerland	Supervisor: LUETHI Andreas
LEPRINCE Erwan France	From	Aix-Marseille University Marseille France	Role of visual and emotion circuits in shaping neural spatial representations of aversive stimuli
	То	University of Cambridge Cambridge UK	Supervisor: BELTRAMO Riccardo
LIAKOS Anastasios Greece	From	National and Kapodistrian University of Athens Athens Greece	Chromatin rejuvenation and DNA damage responses during ageing of human chromosomes
	То	University Medical Center Göttingen Göttingen Germany	Supervisor: PAPANTONIS Argyris
MEHDIRATTA Kritee India	From	CSIR-Institute of Genomics and Integrative Biology New Delhi India	Unraveling spatial landscape of Mycobacterium tuberculosis transcriptome and its role in TB pathology
	То	Harvard T. H. Chan School of Public Health Boston USA	Supervisor: RUBIN Eric

MIEHL Christoph Austria	From	Technical University Munich Munich Germany	Reward-based learning of assemblies in olfaction
	То	The University of Chicago Chicago USA	Supervisors: DOIRON Brent OSWALD Anne-Marie
MUGNAINI Matias Argentina	From	University of Buenos Aires Buenos Aires Argentina	Neural dynamics of social role- taking and role-reversal in the medial prefrontal cortex
	То	Humboldt-Universität Berlin Germany	Supervisor: BRECHT Michael
NAGANO Masahiro Japan	From	Kyoto University Kyoto Japan	Dissecting long-range gene regulation of cell differentiation through biophysical approaches
	То	Massachusetts Institute of Technology Cambridge USA	Supervisor: HANSEN Anders
NAITOU Yuki Japan	From	Kyushu University Fukuoka Japan	Visualizing specific lipid processing and uncovering molecular mechanisms using gut organoids
	То	TU Dresden Dresden Germany	Supervisor: HONIGMANN Alf
NAKAHASHI Ayuno Japan	From	Université de Montréal Montréal Canada	Closing the neural and behavioural feedback loop of social interactions in freely-behaving primates
	То	Deutsches Primatenzentrum GmbH Göttingen Germany	Supervisor: GAIL Alexander

NOGUCHI Asako Japan	From	The University of Tokyo Tokyo Japan	Memory trace in a neuron: dissecting dendritic mechanisms of learning
	То	Columbia University New York USA	Supervisor: LOSONCZY Attila
OKAMOTO Hiroyuki Japan	From	The University of Tokyo Tokyo Japan	Illuminating orphan GPCR signaling by novel biochemical approaches
	То	University of California, San Francisco San Francisco USA	Supervisor: MANGLIK Aashish
PARIKH Shivang India	From	Tel Aviv University Tel Aviv Israel	Parasite immune evasion in a murine microcosm of the human immune system
	То	Massachusetts General Hospital Boston USA	Supervisor: BATISTA Facundo
RAMANADANE Karthik France	From	University of Zurich Zurich Switzerland	Unravelling the molecular mechanisms of thyroglobulin endocytosis mediated by the R2 receptor
	То	Human Technopole Milano Italy	Supervisor: COSCIA Francesca
REINERT Sandra Germany	From	Ludwig-Maximilians-Universität München Munich Germany	Understanding the formation of schema representations in prefrontal cortex
	То	University College London London UK	Supervisors: BEHRENS Timothy MRSIC-FLOGEL Thomas

LONG-TERM FELLOWSHIPS

SÁNCHEZ Juan Argentina	From	Instituto de Agrobiotecnología del Litoral, UNL-CONICET Santa Fe Argentina	Unraveling the cellular and molecular dynamics of adult neurogenic niches
	То	Champalimaud Foundation Lisbon Portugal	Supervisor: RHINER Christa
SANCHÍS CALLEJA Fátima Spain	From	ETH Zurich Zurich Switzerland	Understanding the role of endometrial compartmentalization in menstruation
	То	Harvard University Cambridge USA	Supervisor: MCKINLEY Kara
SILVA Marta Portugal	From	University of Barcelona Barcelona Spain	The neural basis of naturalistic memory
	То	Columbia University New York USA	Supervisor: JACOBS Joshua
SOUDIER Paul France	From	Paris-Saclay University Orsay France	A quantitative in vitro approach to virus infection
	То	University of Minnesota Minneapolis USA	Supervisor: NOIREAUX Vincent
STOKAR-AVIHAIL Avigail Israel/USA	From	Weizmann Institute of Science Rehovot Israel	Mapping the interactions between bacteria in the microbiome for targeted strain replacement
	То	European Molecular Biology Laboratory Heidelberg Germany	Supervisor: TYPAS Athanasios

SUTHERLAND Emmajay UK	From	University of St Andrews St Andrews UK	Chemical glycobiology to investigate the cell surface glycocode
	То	University of Washington Seattle USA	Supervisor: RILEY Nicholas
TAN Yi Han Singapore	From	National University of Singapore Singapore Singapore	Understanding the host-microbe arms race through the TLR5-flagellin axis
	То	Max Planck Institute for Biology Tübingen Tübingen Germany	Supervisor: LEY Ruth
VIJAYAN Sajesh India	From	Indian Institute of Science Education and Research Thiruvananthapuram, Kerala India	Following dance vibrations on a swarm: the emergent mechanics of honey bee collectives
	То	University of Western Ontario London Canada	Supervisor: MHATRE Natasha
VOITOV Ivan Canada	From	University of Basel Basel Switzerland	The biophysics of causality – sensing and control of network dynamics by single neurons
	То	Columbia University New York USA	Supervisor: POLLEUX Franck
WANG Lu-Yi Taiwan	From	The University of Melbourne Melbourne Australia	Adhesive mechanism of poison frog tadpoles: how to attach on soft and wet surfaces
	То	University of Cambridge Cambridge UK	Supervisor: FEDERLE Walter

LONG-TERM FELLOWSHIPS

WEGLAGE Moritz Germany	From	Karolinska Institutet Stockholm Sweden	Does the striatum use cerebellar motor state predictions to guide rapid and complex movement?
	То	Harvard University Cambridge USA	Supervisor: ÖLVECZKY Bence
XU Jin China	From	Zhejiang University Hangzhou China	Exploring novel riboswitches in plants: uncovering new regulatory mechanisms for plant metabolism
	То	John Innes Centre Norwich UK	Supervisor: DING Yiliang
YOSHIDA Mari Japan	From	Nagoya University Nagoya Japan	A nucleus-driven paradigm of mechanotransduction and morphogenesis
	То	Institut Curie Paris France	Supervisor: BELLAÏCHE Yohanns

BAIKIE Tomi UK/Finland	From	University of Cambridge Cambridge UK	Non-contact measurements of electrochemical potentials in skin
	То	Massachusetts Institute of Technology Cambridge USA	Supervisors: AHN Andrew BALDO Marc
BISARDI Matteo Italy	From	Université Paris Cité Paris France	Coupling massive gene synthesis with generative sequence models to decipher antibiotic resistance
	То	University of British Columbia Vancouver Canada	Supervisor: TOKURIKI Nobuhiko
DAL CENGIO Sara Italy	From	Universitat de Barcelona Barcelona Spain	Evolutionary dynamics and self- organization in active populations
	То	Massachusetts Institute of Technology Cambridge USA	Supervisor: TAILLEUR Julien
FRIDIANTO Kevin Timothy Indonesia	From	National University of Singapore Singapore Singapore	Elucidating electrophile-sensor signaling proteins at the contact sites between bacteria and host
	То	École Polytechnique Fédérale de Lausanne Lausanne Switzerland	Supervisor: AYE Yimon
GRÜNING Gesa Germany	From	Carl von Ossietzky University Oldenburg Oldenburg Germany	<i>Is quantum coherence important in coupling the antenna system to the photosystem in cryptophytes?</i>
	То	University of New South Wales Sydney Australia	Supervisor: CURMI Paul

HIDAKA Takuya Japan	From	Kyoto University Kyoto Japan	Molecular mechanism of sister chromatid resolution in replicated human chromosomes
	То	Institute of Molecular Biotechnology Vienna Austria	Supervisor: GERLICH Daniel
KITZMANN Winald Germany	From	Johannes Gutenberg University of Mainz Mainz Germany	Teaching excitons how to walk: spatial reorganization in an artificial light-harvesting system
	То	Massachusetts Institute of Technology Cambridge USA	Supervisor: SCHLAU-COHEN Gabriela
MATREUX Thomas Germany	From	Ludwig Maximilian University Munich Munich Germany	Early Earth conditions as a selector for functional RNAs
	То	Ecole Supérieure de Physique et de Chimie Industrielles de la Ville de Paris Paris France	Supervisor: NGHE Philippe
PAVLIC Alen Slovenia	From	ETH Zurich Zurich Switzerland	Ultrasound neuromodulation: search for the physical origin
	То	California Institute of Technology Pasadena USA	Supervisor: SHAPIRO Mikhail
RIEDL Michael Austria	From	Institute of Science and Technology Austria Klosterneuburg Austria	Mechano-chemical coupling in cytoplasmic flows: the competition between self- organization and chaos
	То	TU Dresden Dresden Germany	Supervisor: BRUGUES Jan

SHARMA Vinay India	From	Technion Israel Institute of Technology Haifa Israel	Brain-wide mapping of neurochemical activity using liposomal nanoparticle reporters
	То	Massachusetts Institute of Technology Cambridge USA	Supervisor: JASANOFF Alan