

HFSP AWARDS 2020

CROSS-DISCIPLINARY 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.

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.

ASHDOWN George UK	From	Department of Life Sciences Imperial College London UK	Mycobacterium tuberculosis modulation of host, elucidated by super-resolution imaging and proteomics
	То	Division of Infectious Diseases and Immune Defence Walter and Eliza Hall Institute of Medical Research Melbourne AUSTRALIA	Supervisors: PELLEGRINI Marc and COUSSENS Anna
BENDTZ Katarina SWEDEN	From	Department of Psychology Stockholm University SWEDEN	Global Neuronal Network theory vs Integrated Information Theory
	То	Children's Hospital Harvard University Boston USA	Supervisor: KREIMAN Gabriel
BOYS Alexander USA	From	Department of Materials Science and Engineering Cornell University, Ithaca USA	Pathways of neural information transfer along the gut-brain axis
	То	Department of Chemical Engineering and Biotechnology University of Cambridge UK	Supervisors: OWENS Roisin and MALLIARAS George
CHEW Wei Xiang MALAYSIA	From	Department of Physics University of Malaya Kuala Lumpur MALAYSIA	Physical determinants for the coexistence of nematic and polar network states in mitotic spindles
	То	Department of Cell and Developmental Biology Centre for Genomic Regulation Barcelona SPAIN	Supervisor: SURREY Thomas
DAMRY Adam CANADA	From	Department of Chemistry and Biomolecular Sciences University of Ottawa CANADA	Electrochemical biosensors for minimally invasive continuous small molecule monitoring
	То	Research School of Chemistry Australian National University Canberra AUSTRALIA	Supervisor: JACKSON Colin

DUPIC Thomas FRANCE	From	Département de Physique Ecole Normale Supérieure Paris FRANCE	Reproducing affinity maturation dynamics in vitro
	То	Department of Organismic and Evolutionary Biology Harvard University Boston USA	Supervisor: DESAI Michael
GOSZTOLAI Adam HUNGARY	From	Department of Mathematics Imperial College London UK	Data-driven discovery of decentralised control mechanisms of action selection
	То	Neuroengineering Laboratory Brain Mind Institute and Interfaculty Bioengineering Institute, EPFL Lausanne SWITZERLAND	Supervisors: RAMDYA Pavan and IJSPEERT Auke
JEONG Seungwon KOREA	From	Department of Physics Korea University Seoul KOREA	Miniaturized two-photon microscope capable of deep brain imaging in freely behaving animals
	То	Department of Neuroscience Johns Hopkins University Baltimore USA	Supervisor: KWON Hyungbae
KASHCHUK Anatolii UKRAINE	From	Institute of Physics National Academy of Sciences Kyiv UKRAINE	Investigating mechanotransduction at a single molecule level
	То	Department of Physics and Astronomy University of Florence ITALY	Supervisor: CAPITANIO Marco
LI Li CHINA	From	Transnational Center National Institute of Biological Sciences Beijing CHINA	Elucidating the acute cellular sensing and response pathways to severe hypoxia
	То	Department of Pharmaceutical Chemistry University of California San Francisco USA	Supervisor: ALTSCHULER Steven

MILLES Lukas GERMANY	From	Faculty of Physics LMU Munich GERMANY	De novo design of autocatalytic formation of isopeptide bonds
	То	Institute for Protein Design University of Washington Seattle USA	Supervisor: BAKER David
RABUT Claire FRANCE	From	Physics for Medicine Laboratory INSERM Paris FRANCE	Whole-brain acoustic tracking of calcium and hemodynamics (WATCH)
	То	Division of Chemistry and Chemical Engineering California Institute of Technology Pasadena USA	Supervisor: SHAPIRO Mikhail
RINALDIN Melissa ITALY	From	Leiden Institute of Physics Leiden University THE NETHERLANDS	Investigating the role of non-equilibrium pathways to liquid-liquid phase separation in vitro
	То	Martin A. Fisher School of Physics Brandeis University Waltham USA	Supervisors: DUCLOS Guillaume and ROGERS Benjamin
SCHUEDER Florian GERMANY	From	Molecular Imaging and Bionanotechnology Lab Max Planck Institute of Biochemistry Martinsried GERMANY	Characterization of the sorting platform's assembly in bacteria using 4Pi microscopy and DNA-PAINT
	То	Department Cell Biology and Department of Microbial Pathogenesis Yale University, New Haven USA	Supervisors: BEWERSDORF Joerg and GALAN Jorge
VALET Manon FRANCE	From	Laboratoire Jean Perrin Université de la Sorbonne Paris FRANCE	Biomechanical induction of a primitive streak in a synthetic human embryo
	То	Center for Studies in Physics and Biology The Rockefeller University New York USA	Supervisors: SIGGIA Eric and BRIVANLOU Ali