



HFSP AWARDS 2019

CROSS-DISCIPLINARY FELLOWSHIPS

as approved by the Board of Trustees (March 2019)

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.

CHEESEMAN Bevan NEW ZEALAND	From	Center for Systems Biology MPI of Molecular Cell Biology and Genetics Dresden GERMANY	<i>How do populations of identical cells break symmetry? A novel data-driven approach using gastruloids</i>
	To	Department of Genetics University of Cambridge UK	Supervisors: MARTINEZ-ARIAS Alfonso and TRIVEDI Vikas
DHAR Jayabrata INDIA	From	Geosciences Rennes University of Rennes FRANCE	<i>The microscale biophysics of toxin dispersion during harmful algal blooms</i>
	To	Physics and Materials Science Research Unit University of Luxembourg LUXEMBOURG	Supervisor: SENGUPTA Anupam
HONTANI Yusaku JAPAN	From	Physics and Astronomy Vrije Universiteit Amsterdam THE NETHERLANDS	<i>Deep-tissue voltage imaging in the intact mouse brain</i>
	To	Applied and Engineering Physics Cornell University Ithaca USA	Supervisor: XU Chris
LAFLEUR René THE NETHERLANDS	From	Institute for Complex Molecular Systems Eindhoven University of Technology THE NETHERLANDS	<i>Design and assembly of hierarchical hybrid hydrogels from natural materials</i>
	To	Nanostructured Interfaces and Materials Science University of Melbourne AUSTRALIA	Supervisor: CARUSO Frank
LAGGER Cyril SWITZERLAND	From	School of Physics University of Sydney AUSTRALIA	<i>Modelling aging from the genome to the organ: a multiscale approach</i>
	To	Institute of Ageing and Chronic Disease University of Liverpool UK	Supervisor: DE MAGALHAES Joao Pedro

NIEVERGELT Adrian SWITZERLAND	From	Laboratory for Bio- and Nano-Instrumentation EPFL, Lausanne SWITZERLAND	<i>Structure and dynamics of intraflagellar transport systems</i>
	To	MPI for Molecular Cell Biology and Genetics Dresden GERMANY	Supervisor: PIGINO Gaia
OHMURA Takuya JAPAN	From	Department of Physics Kyoto University JAPAN	<i>Identifying cell-cell interaction principles that shape spatiotemporal biofilm development</i>
	To	MPI for Terrestrial Microbiology Marburg GERMANY	Supervisor: DRESCHER Knut
SUN Chao CHINA	From	Department of Chemistry and Chemical Biology Cornell University Ithaca USA	<i>Understanding synaptic diversity using quantitative single-molecule localization microscopy</i>
	To	Department of Synaptic Plasticity MPI for Brain Research Frankfurt am Main GERMANY	Supervisor: SCHUMAN Erin
VO Doan Tat Thang VIETNAM	From	School of Mechanical and Aerospace Engineering Nanyang Technological University SINGAPORE	<i>Cellular resolution neuronal activation and recording in freely moving flies and fish</i>
	To	Institute of Biology I University of Freiburg GERMANY	Supervisor: STRAW Andrew
WOOD Mary UK	From	School of Chemistry University of Birmingham UK	<i>Applying surface chemistry techniques to study electron-transfer in conductive proteins and biofilms</i>
	To	Laboratory of Nanobiotechnology EPFL Lausanne SWITZERLAND	Supervisor: BOGHOSSIAN Ardemis