



HFSP AWARDS 2018

CROSS-DISCIPLINARY FELLOWSHIPS

as approved by the Board of Trustees (March 2018)

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.

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| ALERT Ricard SPAIN | From | Department of Condensed Matter Physics University of Barcelona SPAIN | <i>Self-organization of bacterial biofilms as active matter</i> |
| | To | Lewis-Sigler Institute for Integrative Genomics Princeton University USA | Supervisor: WINGREEN Ned |
| CHEN Shuo CHINA | From | Brain Science Institute RIKEN Wako, Saitama JAPAN | <i>Non-invasive deep brain stimulation and imaging using near-infrared upconversion nanocrystals</i> |
| | To | Helen Wills Neuroscience Institute University of California, Berkeley USA | Supervisors: JI Na and FOSTER David |
| DE OLIVEIRA LIMA BACELLAR Isabel BRAZIL | From | Laboratory of Photoinduced Processes and Interfaces Universidade de São Paulo BRAZIL | <i>Protein liquid-liquid phase separation as a mechanism of peroxisome matrix membrane transport</i> |
| | To | Biochemistry University of Montreal CANADA | Supervisor: MICHNICK Stephen |
| GMEINER Benjamin GERMANY | From | Max Planck Institute for the Science of Light Erlangen GERMANY | <i>In vivo voltage imaging of cortical circuits</i> |
| | To | Chemistry and Chemical Biology Harvard University Cambridge USA | Supervisor: COHEN Adam |
| GNANASEKARAN Karthikeyan INDIA | From | Department of Chemical Engineering and Chemistry Eindhoven University of Technology THE NETHERLANDS | <i>Quantitative in situ liquid cell transmission electron microscopy of microtubules</i> |
| | To | Department of Chemistry Northwestern University Evanston USA | Supervisor: GIANNESCHI Nathan |

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| GUILLAMAT Pau SPAIN | From | Department of Materials Science and Physical Chemistry University of Barcelona SPAIN | <i>In vitro control of cell collective flows and tissue folding by means of surface patterns</i> |
| | To | Department of Biochemistry University of Geneva SWITZERLAND | Supervisor: ROUX Aurélien |
| GUR Dvir ISRAEL | From | Dept. of Physics of Complex Systems and Dept. of Molecular Cell Biology Weizmann Institute of Science Rehovot ISRAEL | <i>Unraveling cellular process in guanine crystals forming cell</i> |
| | To | NICHD NIH Bethesda USA | Supervisor: LIPPINCOTT-SCHWARTZ Jennifer |
| HUH Jaewon KOREA | From | Statistics Seoul National University KOREA | <i>Quantitative implementation of causality in dynamic molecular pathways</i> |
| | To | Bioinformatics University of Texas Southwestern Medical Center Dallas USA | Supervisor: DANUSER Gaudenz |
| KALVET Indrek ESTONIA | From | Institute of Organic Chemistry Aachen University GERMANY | <i>De novo computational design of functional metalloproteins</i> |
| | To | Institute of Protein Design University of Washington Seattle USA | Supervisor: BAKER David |
| LI Aming CHINA | From | Center for Systems and Control Peking University Beijing CHINA | <i>Dynamic network theory of microbial communities</i> |
| | To | Department of Zoology University of Oxford UK | Supervisor: FOSTER Kevin |

**UNIONE
Luca
ITALY**

From Molecular Recognition and Host-
Pathogen Interactions
CICbioGUNE
Derio
SPAIN

***New glycoforms for IgG
antibodies***

To Chemical Biology and Drug Discovery
Utrecht University
THE NETHERLANDS

Supervisor:
BOONS Geert-Jan

**WANG
Shuo
CHINA**

From College of Life Science
Capital Normal University
Beijing
CHINA

***Tooth and beak: evo-devo
control of tooth agenesis***

To Department of Pathology
University of Southern California
Los Angeles
USA

Supervisor:
CHUONG Cheng-Ming