

HFSP AWARDS 2025

ACCELERATOR GRANTS

approved by the Board of Trustees (March 2025)

Accelerator Grants, Grants – a new scheme started as a three-year pilot, allows teams who have been awarded a research grant the year before (at this point, 2024) to add an additional team member, from one of seven countries (India, Japan, Republic of Korea, New Zealand, Norway, Singapore, South Africa).

Accelerator Grants awarded 2025 are listed alphabetically, with respect to the Principal Investigator (PI) of the team. The first named for each awarded team is the PI, followed by all the other members of the Research Grant team awarded 2024, and last (but not least), and in **bold** letters, the Accelerator member. Nationality is in parentheses when different from country in which the laboratory is located.

Expanding the Chemical Space of Bioactive Modified Nucleotides to Endogenous Metal Ions

Beltrao Dept. of Biology Switzerland

Pedro ETH Zürich

Correia-Melo Dept. of Microbiome in Ageing Germany
Clara Leibniz Institute on Aging (Portugal)

Fritz Lipmann Institute, Jena

Fugger Dept. of Cancer Biology UK

Kasper UCL Cancer Institute (Denmark)

Hartinger School of Chemical Sciences New Zealand (Aotearoa)

Christian The University of Auckland (Austria)

Strengthening the data analysis pipeline for avian Diffuse Optical Tomography through AI

Botero Dept. of Integrative Biology USA

Carlos The University of Texas at Austin

Culver Dept. of Radiology USA

Joseph Washington University in St.Louis

Güntürkün Dept. of Psychology and Germany

Onur Institute for Cognitive Neuroscience

Ruhr University Bochum

Yoon School of Electrical Engineering Rep. of Korea

Young-Gyu Korea Advanced Institute of Science and

Technology (KAIST), Daejeon

Monitoring ATP synthase re-organization linked to LTP by Cryo-Tomography

Japan

Busch Dept. of Biology Germany

Karin University of Münster

Jonas Dept. of Internal Medicine USA

Elizabeth Yale University

New Haven

Tomkinson Dept. of Pure and Applied Chemistry UK

Nicholas University of Strathclyde

Glasgow

Tanaka Graduate School of Life Sciences

Yoshikazu Tohoku University

Sendai

Assessing the morphological space of self-assembling abiotic chemistries as potential confounding biosignatures

Cleaves Dept. of Chemistry **USA**

Henderson The Howard University

Washington

McMahon School of Physics and Astronomy

Sean University of Edinburgh

Van Zuilen Marine Biodiversity Lab. **Netherlands**

Stichting Naturalis Biodiversity Center Mark

Leiden

India Rajamani **Dept of Biology**

Sudha **Indian Institute of Science Education and**

Research Pune (IISER Pune)

Resurrecting the Multiple Origins of Tyrosine Kinase Activity and Phosphotyrosine Recognition

UK

India

Creixell **CRUK Cambridge Institute** UK Pau The University of Cambridge (Spain)

Metzger Dept. of Biological Sciences **USA**

Purdue University Brian West Lafayette

Shukla **Dept of Biological Sciences and Bioengineering**

Arun **Indian Institute of Technology Kanpur**

Decoding invisibility: from genome evolution to tissue optical properties in transparent fish

Del Bene Dept. of Development France Filippo Institut de la Vision (Italy)

Paris

Johnsen **USA** Dept. of Biology

Sonke **Duke University**

Durham

Ramialison Stem Cell Medicine Australia Mirana Murdoch Childrens Research Institute (Madagascar)

Parkville

Laudet **Marine Eco-Evo-Devo Unit** Japan (France)

Vincent Okinawa Institute of Science and Technology

Graduate University

Cross-talk between the skin microbiome, immunity and sensory innervation in neurophysiology

Di Giovanni Dept. of Brain Sciences UK
Simone Imperial College of Science, Technology and (Italy)

Medicine London

Elinav Dept. of Systems Immunology Israel

Eran Weizmann Institute of Science

Rehovot

Fan Dept. of Biomedical Engineering USA

Rong Yale University
New Haven

Shin Dept of Bio and Brain Engineering Rep. of Korea

Woojung Korea Advanced Institute of Science and

Technology (KAIST), Daejeon

Capturing evolution in action using ancestral genotypes resurrected from sand dune seed banks

Dunning School of Biosciences UK

Luke University of Sheffield

Reijers Dept. of Phyiscal Geography Netherlands

Valerie Utrecht University

Wengrove School of Civil an Construction Engineering USA

Meagan Oregon State University

Corvallis

Konlechner Dept of Geography New Zealand Teresa University of Otago (Aotearoa)

Dunedin

Mechanisms and origins of glycosylation in giant viruses

Fischer Dept. of Biomolecular Mechanisms Germany

Matthias MPI for Medical Research

Heidelberg

De Castro Dept. of Chemical Sciences Italy

Cristina University of Naples Federico II

Ogata Institute for Chemical Research Japan

Hiroyuki Kyoto University, Uji Campus

Kulkarni Dept of Chemistry India

Suvarn Indian Institute of Technology Bombay

Mumbai

Deciphering the evolution, cellular biology and biogeochemistry of symbioses in anaerobic eukaryotes

USA

Husnik Okinawa Institute of Science and Technology Japan

Filip Graduate University (Czech Republic)

Onna-son, Okinawa

Beinart Graduate School of Oceanography

Roxanne University of Rhode Island

Narragansett

Stairs Dept. of Biology Sweden
Courtney Lund university (Canada)

Nomaki X-star Japan

Hidetaka Japan Agency for Marine-Earth Science and

Technology (JAMSTEC)

Yokosuka

Scaling the impact of viruses from single cells to the global methane cycle

Malik School of GeoSciences UK
Ashish University of Edinburgh (India)

Anantharaman Dept. of Bacteriology USA

Karthik University of Wisconsin

Madison

Emerson Dept. of Plant Pathology USA

Joanne University of California Davis

Nicol Laboratoire Ampère France
Graeme CNRS – Ecole Centrale de Lyon (UK)

Ecully

Makhalanyane Dept of Microbiology South Africa

Thulani Stellenbosch University

Mechanoradicals as a novel form of mechanosensing: from protein stretching to animal aging

Zaidel-Bar Dept. of Cell and Developmental Biology Israel

Ronen Tel Aviv University

Dunn Dept. of Chemical Engineering USA

Alexander Stanford University

Gräter Dept. of Biomolecular Mechanics Germany

Frauke MPI for Polymer Research, Mainz

Yan Mechanobiology Institute and Dept of Physics Singapore

Jie National University of Singapore