



Office of Research Grants  
Indian Institute of Science

# STREAM



Funding Newsletter from the Office of Research Grants

Issue 20 | May 2022



PC: Haridossan KG

Hello campus researchers!

Welcome to another edition of **STREAM**.

In this issue we are delighted to share an engaging “In-conversation” interview of Dr. Chandrima Home from ORG, IISc with **Ms. Tania Friederichs**, who is currently at the Director General for research, innovation, and international cooperation at European Union (EU).

In this conversation we discuss the Horizon Europe program, the challenges in her role within the EU delegation to India and the possibilities of collaborations with EU.

The bilateral grant calls this month between India-Israel and Indo-Sweden may be of specific interest to some of you.

Please write to us for any grant-related queries or to share news of awarded grants you have received recently.

With best wishes,  
ORG Team.

## UPCOMING DEADLINES

JUNE 2022						
S	M	T	W	T	F	S
			<u>1</u>	<u>2</u>	<u>3</u>	4
<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	10	11
12	<u>13</u>	14	<u>15</u>	<u>16</u>	<u>17</u>	18
19	20	21	<u>22</u>	23	<u>24</u>	25
<u>26</u>	27	<u>28</u>	<u>29</u>	30		

## IN CONVERSATION

*Dr. Chandrima Home with Ms. Tania Friederichs, at the Director General for research, innovation, and international cooperation at European Union (EU).*

**You were the Research and Innovation Counsellor for the EU delegation to India. Could you tell us something about your role in this position?**

I spent more than five years at the delegation of the European Union in India. Research and innovation are high on the EU agenda; the purpose would be irrelevant if we create a fortress Europe. To the contrary, despite a changing world, the EU remains open to the world but expects from its partners openness and respect for rule of law and adherence to key R&I principles such as research integrity, ethics. India being such a like-minded country, is thus well placed to engage on R&I with the EU. There is an insatiable need to be able to cooperate across the world to address global challenges and



For queries, write to us at [office.org@iisc.ac.in](mailto:office.org@iisc.ac.in)

For more information, visit <https://org.iisc.ac.in/>

Follow us [@ORGIISc](#)

this became very evident during the pandemic. We also benefitted from India's entrepreneurial mind to help finding quick and affordable solutions on diagnostics and therapeutics. My role may be summed up as information gathering, matchmaking and negotiating the conditions of cooperation with India. I had a very good team that helped me in this role.

**The Horizon Europe is the flagship program of the European Commission. What are the priority areas of funding under this program? Do you envisage a change in these areas as we emerge from a pandemic and with an ongoing war crisis?**

The Horizon Europe (earlier Horizon 2020) is a framework program, agreed among all 27 EU member States, for a period of seven years, with a budget of €95.5 billion. This framework program encompasses almost all topics of research, although the focus is greening the economy, digitalization, and healthcare, including better pandemic preparedness. But the pandemic taught us to be resilient and flexible. While the first two years went in adjusting to the needs, growth strategy, and resilience strategy, we are now faced with another crisis due to the Russian invasion in Ukraine, hence reorienting to become less dependent on oil and gas from Russia, and increasing our footprint in renewable energy, in particular green hydrogen. Horizon Europe also offers support for mobility of scientists under the Marie Skłodowska Curie Actions and for the first time the framework program pays more attention to innovation with the creation of the European Innovation Council (EIC). As we roll from one crisis to the other, we have developed the ability to shift priorities. All cooperation opportunities are put on the website of the EU Delegation, but I recommend Euraxess, (<https://euraxess.ec.europa.eu/>), which really offers a user-friendly one stop shop.

**Can you elaborate on how Indian organizations/Indian researchers can apply for the Horizon Europe (HE) calls?**

The calls are open to Indians who are in India and are seeking collaborations with universities, institutes and SMEs and industry from Europe and beyond. Our program is truly multilateral and multi-disciplinary. Based on past cooperation, in water, climate action or health, I can say that both scientific communities value each other. This cooperation is, however, not without difficulties. Prior to 2014, India could directly receive funding from the EU through this program. After 2014, we have shifted to a co-funding model, which led to very successful cooperation with

substantial co-funding from DST, DBT and MoES, which shows it is doable.

**What are some of the personal and professional challenges that you have encountered in your role as a RI counsellor?**

I think one of my biggest challenges has been to look at the possibilities of co-funding with Indian departments. Co-funding mechanisms in bilateral cooperation are easier to carry out than multilateral cooperation. Being in India helped me gauge the operational mechanisms in funding agencies and as mentioned we managed great collaborations, with promising results. One needs to continuously promote cooperation opportunities under Horizon Europe, but if there is no co-funding from the Indian government, scientists will lose their appetite for our program and will disconnect from the excellent scientific community that we can offer. This is a real pity and a loss for society as we need cooperation with India to address global and common challenges, in particular to become carbon neutral as we both pledged for. We are at a tipping point and therefore I really hope that my successor will be able to pick up the dialogue with the agencies again.



Ms. Tania Friederichs with Dr. Chandrima Home

**this program still functional and are there plans to initiate such programs with other funding agencies in India?**

Yes, we had set up an implementation arrangement where Indian scientists would join the ERC grantees for a short duration. This would be largely funded by the ERC grantee with minimal support from the Indian side. We prepared the ground by soliciting interests from the grantees and made an implementation arrangement with SERB who would be primarily responsible for its fruitful execution. The agreement was concluded in the margins of the EU India Summit 2017 but unfortunately, despite the mechanism offering great opportunities for SERB grantees, implementation has been low. In October we have managed to set up such an arrangement with the Indian Council for Social Science Research (ICSSR), of which I am really proud, as we need more social sciences and humanities injected in our search for global solutions. Having an implementing arrangement with both SERB for STEM and ICSSR for SSH, we cover the spectrum now, and hence no plans to initiate such arrangements with other agencies.

**What is your current role at the European Commission and what are some of the exciting aspects of this current profile?**

I recently came back to the headquarters in Brussels, and I am

at the Director General for Research & Innovation. I continue to work in the international department and with India, which really makes me very happy as it allows me to remain connected. In India I learned a lot about innovation and start-ups, and we are now looking to bring innovation at a global level, which would of course include India! I have also been entrusted with cooperation with Japan, a very different experience so far than with India, but as two key partners within the Indo-Pacific, who knows there is maybe room for considering trilateral cooperation.

*Thank you for speaking with us despite your busy schedule. We look forward to continued interactions in the future.*

## RESEARCH GRANTS

### [2022 ForestGEO Research Grants](#)

**Overview:** Supports research directly tied to any ForestGEO Forest Dynamics Sites, that require field studies to strengthen ForestGEO programs.

**Submission Deadline:** 3 June, 2022.

### [DBT Call for Proposals for Sustainable Aviation Fuels under the Energy Biosciences Area](#)

**Overview:** The call supports research and innovations to produce advanced biofuels for aviation applications adaptable to local and global needs.

**Submission Deadline:** 5 June, 2022.

### [DBT Wellcome Team Science Grants](#)

**Overview:** Provides fund for team of researchers addressing important health challenges in India.

**Submission Deadline:** 15 June, 2022.

### [DBT Clinical and Public Health Research Centre \(CRC\) Grants](#)

**Overview:** Institutional grants for research- centres with a focus on biomedical research problems.

**Submission Deadline:** 15 June, 2022.

## BILATERAL RESEARCH GRANTS

### [NIH Early-Stage Development of Data Science Technologies for Infectious and Immune-mediated Diseases](#)

**Overview:** Supports development of data science technologies to facilitate knowledge expansion for immune-mediated and infectious diseases.

**Submission Deadline:** 1 June, 2022.

### [NIH Enhancement or Sustainment of Data Science Tools for Infectious and Immune-Mediated diseases](#)

**Overview:** Focuses on the enhancement/sustainment of data science research software for developing technologies to improve knowledge for immune-mediated and infectious diseases.

**Submission Deadline:** 1 June, 2022.

### [NIH Exploratory Data Science Methods and Algorithm Development in Infectious and Immune-mediated Diseases](#)

**Overview:** Supports exploratory research focused on developing innovative methods and algorithms for infectious or immune-mediated disease research.

**Submission Deadline:** 1 June, 2022.

### [NIH BRAIN Initiative: Targeted BRAIN Circuits Projects-Targeted BCP](#)

**Overview:** Invites applications to address circuit function in the context of specific neural behaviors.

**Submission Deadline:** 1 June, 2022.

### [NIH Immune Drivers of Autoimmune Disease \(IDAD\) \(U01 Clinical Trial Not Allowed\)](#)

**Overview:** Invites applications with a focus on defining immunologic states and dynamics that drive autoimmune diseases.

**Submission Deadline:** 1 June, 2022.

### [BRAIN Initiative: Targeted BRAIN Circuits Planning Projects – Targeted BCPP \(R34 Clinical Trials Not Allowed\)](#)

**Overview:** Solicits exploratory research projects that use innovative approaches to understand how circuit activity affects experience and behavior.

**Submission Deadline:** 1 June, 2022.

### [NIH Mechanisms of Brain Hypoperfusion in AD/ADRD \(R01 Clinical Trial Not Allowed\)](#)

**Overview:** Invites applications to understand molecular and cellular mechanisms underlying cerebral blood flow reduction in Alzheimer's disease and related dementias.

**Submission Deadline:** 1 June, 2022.

### [NIH Clinical Trials Development for Co-Occurring Conditions in Individuals with Down syndrome: Phased Awards for INCLUDE](#)

**Overview:** Supports the development of clinical trials to treat critical and co-occurring health conditions in individuals with Down syndrome.

**Submission Deadline:** 1 June, 2022.

### [NIH Development and Optimization of Next-Generation Immunological Assays to Support Influenza Clinical Studies and Trials \(UH2/UH3 Clinical Trial Not Allowed\)](#)

**Overview:** To develop and optimize the next-generation immunological assays for clinical studies in influenza.

**Submission Deadline:** 1 June, 2022.

### [NIH Small Research Grants for Analysis, Curation, and/or Sharing of Down syndrome-related Research Data for the INCLUDE Project](#)

**Overview:** Support projects focused on the analyses of genomics and other omics related to Down syndrome research.

**Submission Deadline:** 2 June, 2022.

**Indo-Danish Research and Innovation Cooperation**

**Overview:** Invites joint research proposals in the area of “Green fuels including green hydrogen”.

**Submission Deadline:** 2 June, 2022.

**NIH Research Project Grant**

**Overview:** Supports project in areas representing the specific interests and competencies of the investigator(s).

**Submission Deadline:** 5 June, 2022.

**NIH NIDCD Low Risk Clinical Trials in Communication Disorders**

**Overview:** Supports low risk trials to identify effective interventions in communication disorders.

**Submission Deadline:** 5 June, 2022.

**NIH Understanding and Modifying Temporal Dynamics of Coordinated Neural Activity**

**Overview:** Supports projects that explore the role of electrophysiological patterns which can improve cognitive processing.

**Submission Deadline:** 5 June, 2022.

**NIH Academic-Industrial Partnerships for Translation of Technologies for Diagnosis and Treatment**

**Overview:** Supports translational scientific discoveries and engineering for disease diagnosis and treatment.

**Submission Deadline:** 5 June, 2022.

**NIH NeuroNEXT Clinical Trials**

**Overview:** Encourages exploratory clinical trials of investigational agents for biomarker validation studies.

**Submission Deadline:** 5 June, 2022.

**NIH Investigator Initiated Research in Computational Genomics and Data Science**

**Overview:** Supports applications in computational genomics and data science to facilitate biomedical genomics research.

**Submission Deadline:** 5 June, 2022.

**NIH Basic Research in Cancer Health Disparities**

**Overview:** Invites applications in mechanistic research that look into biological/genetic causes of cancer health disparities.

**Submission Deadline:** 5 June, 2022.

**NIH Mood and Psychosis Symptoms during the Menopause Transition**

**Overview:** Supports applications that advance mechanistic and translational research on menopausal transition.

**Submission Deadline:** 5 June, 2022.

**NIH Microbial-based Cancer Imaging and Therapy - Bugs as Drugs**

**Overview:** Supports basic, mechanistic and preclinical studies in cell culture and animal models.

**Submission Deadline:** 5 June, 2022.

**NIH Modulating Human Microbiome Function to Enhance Immune Responses Against Cancer**

**Overview:** Supports basic research that elucidates how human microbiome affects anti-tumor immune responses to identify potential molecular targets for cancer prevention strategies.

**Submission Deadline:** 5 June, 2022.

**NIH Drug Discovery for Nervous System Disorders**

**Overview:** Supports discovery of novel compounds for the prevention and treatment of nervous system disorders.

**Submission Deadline:** 5 June, 2022.

**NIH Innovative Screening Approaches and Therapies for Screenable Disorders in Newborns**

**Overview:** Supports development of novel screening approaches in newborns for high priority fatal genetic conditions.

**Submission Deadline:** 5 June, 2022.

**NIH Basic Neurodevelopmental Biology of Circuits and Behavior**

**Overview:** Encourages projects focused on dynamic and mechanistic links between brain circuits and developmental behaviors in rodents and non-human primates.

**Submission Deadline:** 5 June, 2022.

**NIH Early and Late-Stage Clinical Trials for the Spectrum of Alzheimer's Disease/Alzheimer's Related Dementias and Age-Related Cognitive Decline**

**Overview:** Invites applications that develop and implement early to late-stage clinical trials of promising pharmacological and non-pharmacological interventions for age-related cognitive decline.

**Submission Deadline:** 5 June, 2022.

**NIH Systematic Testing of Radionuclides in Preclinical Experiments (STRIPE)**

**Overview:** Solicits projects utilizing state-of-the-art cancer biology methods and model systems to study effects of radiation on normal tissue, tumor cells and the tumor microenvironment.

**Submission Deadline:** 5 June, 2022.

**NIH - A Community Research Resource: Characterization of the Resident Ocular Microbiome**

**Overview:** Invites applications from multidisciplinary teams to develop a community-based resource of microbial data associated ocular microbiome of healthy individuals.

**Submission Deadline:** 6 June, 2022.

**NIH HEAL Initiative: Discovery and Functional Evaluation of Human Pain-associated Genes & Cells**

**Overview:** Supports research using human tissue/cells to generate datasets for functional genetic elements, epigenetic signatures, and cellular pathways of pain.

**Submission Deadline:** 7 June, 2022.

[\*\*International Development Research Centre \(IDRC\) Call for Concept Notes: Climate Adaptation and Resilience \(CLARE\)\*\*](#)

**Overview:** Invites proposals under the themes of understanding climate risk and risk-informed early action and developing in a changing climate.

**Submission Deadline:** 7 June, 2022.

[\*\*NIH Somatic Mosaicism across Human Tissues \(SMaHT\)\*\*](#)

[\*\*Program: Tool Development Projects\*\*](#)

**Overview:** Invites applications for technology development to enhance understanding of somatic variants as part of Somatic Mosaicism across Human Tissues (SMaHT) Network.

**Submission Deadline:** 8 June, 2022.

[\*\*NIH Research Projects in Physical Sciences-Oncology \(U01\*\*](#)

[\*\*Clinical Trial Optional\)\*\*](#)

**Overview:** Supports research that foster convergence of physical sciences approaches with cancer research.

**Submission Deadline:** 8 June, 2022.

[\*\*NIH Improved Drug Susceptibility Testing \(DST\) for Tuberculosis\*\*](#)

**Overview:** Supports development of new diagnostic technologies for tuberculosis (TB) and drug susceptibility testing.

**Submission Deadline:** 8 June, 2022.

[\*\*NIH NINDS Efficacy Clinical Trials\*\*](#)

**Overview:** Encourages trials that address topics within the mission and research interests of NINDS.

**Submission Deadline:** 9 June, 2022.

[\*\*NIH Chronic, Non-Communicable Diseases and Disorders Across the Lifespan: Fogarty International Research Training Award \(NCD-LIFESPAN\)\*\*](#)

**Overview:** Encourages collaborative institutional research training programs between US institutions and those in low- and middle-income countries.

**Submission Deadline:** 13 June, 2022.

[\*\*NIH BRAIN Initiative Connectivity across Scales \(BRAIN CONNECTS\): Specialized Projects for Scalable Technologies\*\*](#)

**Overview:** Supports specialized projects to develop current/emerging technologies to generate comprehensive atlases of brain connectivity.

**Submission Deadline:** 13 June, 2022.

[\*\*NIH International Research in Infectious Diseases\*\*](#)

**Overview:** Supports infectious disease research by international investigators in resource-constrained countries.

**Submission Deadline:** 15 June, 2022.

[\*\*NIH Noncoding RNAs in Alzheimer's Disease and Related Dementias\*\*](#)

**Overview:** Supports exploratory and developmental grant

(R21) applications seeking to discover functional roles of ncRNAs involved in the pathogenesis and progression of AD/ADRD.

**Submission Deadline:** 15 June, 2022.

[\*\*NIH Neuronal Vulnerability to Proteinopathies in Alzheimer's Disease and Alzheimer's Disease-Related Dementias\*\*](#)

**Overview:** Supports research that characterize neuronal and glial cell populations vulnerable to Alzheimer's disease (AD) and AD-related dementias (ADRD) proteinopathies.

**Submission Deadline:** 15 June, 2022.

[\*\*NIH Mechanisms of Alcohol Tolerance\*\*](#)

**Overview:** Supports research that focuses on sensitivity and tolerance mechanisms of alcohol use disorder.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Secondary Analysis and Integration of Existing Data to Elucidate the Genetic Architecture of Cancer Risk and Related Outcomes\*\*](#)

**Overview:** Supports research that address questions relevant to cancer genomics and epidemiology.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Pilot and Feasibility Studies in Preparation for Substance Use Prevention Trials\*\*](#)

**Overview:** Encourages pilot/feasibility research specific to the prevention of substance use.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Utilizing Invasive Recording and Stimulating Opportunities in Humans to Advance Neural Circuitry Understanding of Mental Health Disorders\*\*](#)

**Overview:** Encourages applications to pursue invasive neural recording studies focused on mental health-relevant questions to address mental health disorders.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Basic Neurodevelopmental Biology of Circuits and Behavior \(R21 Clinical Trial Not Allowed\)\*\*](#)

**Overview:** Encourages research projects focused on dynamic and mechanistic links in brain circuits and developmental behaviors in rodents and non-human primates.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Neuromodulation/Neurostimulation Device Development for Mental Health Applications\*\*](#)

**Overview:** Encourages applications to develop next generation brain stimulation devices for treatment of mental health disorders.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Drug Discovery for Nervous System Disorders\*\*](#)

**Overview:** Supports discovery of novel compounds for the prevention and treatment of nervous system disorders.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Joint NINDS/NIMH Exploratory Neuroscience Research Grant\*\*](#)

**Overview:** Supports exploratory and innovative research projects within the missions of the NINDS and NIMH.  
**Submission Deadline:** 16 June, 2022.

[\*\*NIH Imaging - Science Track Award for Research Transition \(I/START\)\*\*](#)

**Overview:** Facilitates newly independent investigators and established investigators to adopt neuroimaging methodologies and conduct "proof of concept" studies.  
**Submission Deadline:** 16 June, 2022.

[\*\*NIH Small Research Grant Program\*\*](#)

**Overview:** Supports short term pilot and feasibility studies with limited resources.  
**Submission Deadline:** 16 June, 2022.

[\*\*NIH Innovative Screening Approaches and Therapies for Screenable Disorders in Newborns\*\*](#)

**Overview:** Encourages development of novel screening approaches/therapeutic interventions for fatal or disabling conditions identified through newborn screening.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Exploratory/Developmental Bioengineering Research Grants \(EBRG\)\*\*](#)

**Overview:** Supports research that demonstrate feasibility of new capabilities/improvements to problems in basic biomedical, pre-clinical, or clinical research.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH NEI Regenerative Medicine Clinical Trial Planning Grant\*\*](#)

**Overview:** Supports regenerative medicine clinical trials  
**Submission Deadline:** 16 June, 2022.

[\*\*NIH Exploratory/Developmental Research Grant Program\*\*](#)

**Overview:** Provides support for conceptual stages of exploratory and developmental research projects.  
**Submission Deadline:** 16 June, 2022.

[\*\*NEI Clinical Research Study Planning Grant Program\*\*](#)

**Overview:** Supports large-scale clinical vision research projects, including randomized clinical trials.  
**Submission Deadline:** 16 June, 2022.

[\*\*NIH NEI Research Grant for Vision-Related Secondary Data Analysis\*\*](#)

**Overview:** Encourages applications from institutions/organizations that propose to conduct vision related secondary data analyses.  
**Submission Deadline:** 16 June, 2022.

[\*\*India-Israel Industrial R&D and Technological Innovation Fund \(I4F\) 2022\*\*](#)

**Overview:** The call invites joint R&D projects in areas of agriculture, energy, healthcare, information &

communication technologies and water.

**Submission Deadline:** 16 June, 2022.

[\*\*NIH Ethical, Legal and Social Implications \(ELSI\) Exploratory/Developmental Research Grant\*\*](#)

**Overview:** Invites proposals to study the ethical, legal and social implications of human genome research.

**Submission Deadline:** 17 June, 2022.

[\*\*NIH Prevention and Intervention Approaches for Fetal Alcohol Spectrum Disorders\*\*](#)

**Overview:** Encourages applications on prevention and intervention strategies for fetal alcohol spectrum disorders (FASD).

**Submission Deadline:** 17 June, 2022.

[\*\*NIH Technologies and Assays for Therapeutic Genome Editing INDs\*\*](#)

**Overview:** Invites applications for optimization and characterization of technologies and assays for use in genome editing therapeutics.

**Submission Deadline:** 17 June, 2022.

[\*\*Indo-Swedish Joint Call for Proposals within Circular Economy\*\*](#)

**Overview:** Supports research and innovation projects that create a transition towards a circular economy.

**Submission Deadline:** 22 June, 2022.

[\*\*NIH NCI Small Grants Program for Cancer Research for Years 2020, 2021, and 2022\*\*](#)

**Overview:** Supports short term research projects on cancer that can be carried out with limited resources.

**Submission Deadline:** 24 June, 2022.

[\*\*NIH NIDA Translational Avant-Garde Award for Development of Medication to Treat Substance Use Disorders\*\*](#)

**Overview:** Supports outstanding basic/clinical researchers with a vision and expertise to translate research discoveries into medications for treatment of substance use disorders.

**Submission Deadline:** 26 June, 2022.

[\*\*NIH-NIDA Animal Genomics Program\*\*](#)

**Overview:** Encourages applications that take genomics, multi-omics-based approaches that integrate multi-level 'omics data and uncover function of genetic or epigenetic variants.

**Submission Deadline:** 26 June, 2022.

[\*\*NIH Cystic Fibrosis \(CF\) Research and Translation Centers\*\*](#)

**Overview:** Supports basic and clinical research on Cystic Fibrosis and provide resources to develop and test new therapies for CF.

**Submission Deadline:** 28 June, 2022.

[\*\*NIH Cancer Epidemiology Cohorts: Building the Next Generation of Research Cohorts\*\*](#)

**Overview:** Supports initiating and building next generation of

population-based cancer epidemiology cohorts to address knowledge gaps in cancer etiology and survivorship.

**Submission Deadline: 29 June, 2022.**

**NIH Partnerships for the Development of Novel Therapeutics to Combat Select Antibiotic Resistant Bacteria and Fungi**

**Overview:** Support projects focused on preclinical development of lead candidate therapeutics and related countermeasures against antibiotic resistant.

**Submission Deadline: 29 June, 2022.**

**National Institute for Health and Care Research (NIHR) Research and Innovation for Global Health Transformation (RIGHT) program**

**Overview:** Support programs of applied health research that can strengthen health service delivery and resilience in LMICs.

**Submission Deadline: 29 June, 2022.**

**POST DOCTORAL FELLOWSHIPS**

**SERB DST- National Post-Doctoral Fellowship (N-PDF)**

**Overview:** Supports young researchers for continuing research in frontier areas of science and engineering.

**Submission Deadline: 01 June, 2022.**

