

# ENSEMBLE

Newsletter of the Indo-French Centre for the Promotion of Advanced Research

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Forging Indo-French S&T Partnerships

CEIPRA

# Welcome ! Bienvenue!

☐☐ CEFIPRA family extends heartiest congratulations to Padma Shri Prof. Ajay K. Sood on being appointed as the New Principal Scientific Advisor (PSA) to the GoI. In his new role, he works as the topmost adviser to the Government on all matters related to scientific policy. ☐☐



**Prof. Ajay Sood**  
Principal Scientific Adviser (PSA), Govt. of India



**Dr. S. Chandrasekhar**  
Co-Chair, CEFIPRA &  
Secretary, Department of Science and Technology (DST)  
Government of India



**Mr. Matthieu PEYRAUD**  
Co-Chair, CEFIPRA &  
Director, Department of Culture, Education, Research and  
Networking, Ministry of Europe & Foreign Affairs (MEAE)  
Government of France

☐☐ A very warm welcome to Prof. Nitin Seth, as the new Director of Indo-French Centre for the Promotion of Advanced Research (IFCPAR/ CEFIPRA). Dr. Seth is affiliated as Professor and Head of the Centre for Trade Facilitation and Logistics (CTFL), Indian Institute of Foreign Trade (IIFT), New Delhi. ☐☐



**Dr. Nitin Seth**  
Director, CEFIPRA

## Events and activities of CEFIPRA during this quarter

- 24 Proposals were received under CSRP in four thematic areas with deadline 15 Jan, CSRP (Thematic Call) AI & Big Data Science for sustainability Quantum Materials and addressing Biological Questions Using or Developing Mathematical, Computational or Physical Approaches and its Preliminary screening at CEFIPRA.
- 37<sup>th</sup> Industrial Research Committee (IRC) Meeting Industry-Academia Research & Development Programme(IARDP).
- 67<sup>th</sup> Scientific Council (SC) Meeting to evaluate proposals submitted under Collaborative Scientific Research Programme, CEFIPRA.
- Launch of Call for Proposal in Feb 2022 under Raman-Charpak Fellowship programme with deadline.
- Meeting for Expert Committee for review projects under DST-Inria-CNRS on 15 March, 2022.
- Industrial Research Committee (IRC) meeting to review completed / ongoing projects on 24 March, 2022.



Content Support:

**Dr. Payal Prakash**  
Senior Scientific Associate

&

**Dr. Raman Kumar**  
Scientific Officer



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# Bringing Minds Together to Collaborate



Dr. Sudip Misra  
IIT  
Kharagpur

## FogCity: QoS-Aware Resource Management for Smart Cities

Internet of Things (IoT) applications are latency-sensitive and need faster turnaround than what can be provided by cloud. *Fog computing has emerged as a means of providing computation near the data sources (IoT devices) to serve these latency sensitive applications and reduce the burden on the cloud infrastructure.*



Dr. Christine Morin  
Inria, (Head of Myriads  
project team)

### Outcomes:

Designed a pricing-based resource management scheme, named FogPrime, for fog networks. utility game to allocate resources in inter-clusters of fog networks FogBarg, is implemented on a real system – Grid5000 – in France.



S. Subramanian  
Indian Institute of Science  
Bangalore

## Chromite: Assessment of chromium release from sukinda mining overburden: an isotopic, chemical, physical and microbiological study

The collaborators investigated anthropogenic activities such as mining, metallurgical industries, leather tanning, chrome plating...etc. release a considerable amount of chromium into the environment. Hexavalent chromium (Cr(VI)), is a strong oxidizing agent that is of major concern for both environment and human beings.



Yann Sivry  
Institut de Physique du  
Globe de Paris, Paris

### Outcomes:

1. Two new chromium tolerant bacterial strains were isolated and identified. The sequences of the strains are deposited in the GenBank. New insights have been gained with respect to the interaction between the bacteria-chromium solution interface. A biosensor for the detection of chromium has been developed.
2. The combined determination of Cr speciation and isotopic composition in all water compartments and soils from the Valley allowed for the first time a holistic understanding of the biogeochemical processes controlling the mobility of Cr in the environment.



Gouriprasanna Roy  
Shiv Nadar University  
Uttar Pradesh

## Metal chelators derived from imidazole thiones and selones for detoxification

The collaborators major aim was to develop innovative copper chelators with potential application in the treatment of Wilson's disease. As significant out of project acquisition of knowledge in the field of bioinorganic chemistry and copper chelation properties understanding in biological conditions. Moreover, some of the molecules developed in the project may have therapeutic interest either as antioxidant agents or Cu chelating agents.



Pascale Delangle  
CEA Centre de Grenoble  
Grenoble

### Outcomes:

1. Development of novel molecules based on various imidazole thiones and selones and the optimization of the corresponding synthetic pathways. A series of complementary building blocks was obtained in the two partners' teams to study a wide range of structural modifications.
2. The project also contributed to improve knowledge of Cu(I) chelation with biologically-relevant molecules. Indeed, analysis of the Cu(I) complexation properties of the tripodal ligands evidenced several important features. The non-alkylated derivatives revealed systematically a larger affinity for Cu(I) than the alkylated ones.



Anjan Kumar Gupta  
IIT  
Kanpur

## Micro-SQUID magnetometry of nano-scale magnetic structures

The collaborators measure the switching field distribution and magnetization relaxation times in single-domain ferromagnetic and hybrid nano-particles is proposed to investigate the coupled dynamics of nanoparticle magnetization and the SQUID's phase to observe the predicted Shapiro steps and magnetization reversal.



Hervé Courtois  
CNRS et Université  
Grenoble Alpes  
Grenoble

Development of a  $\mu$ -SQUID magnetometry setup at IIT -K with 1.3 Kelvin base temperature and up to 1 Tesla vector magnetic fields. This setup will be used to study different individual nano-magnetic particles and structures. We are working to further improve the noise figure by using magnetic and electromagnetic shielding so as to study non-ferromagnetic nano-particles

# Bringing Minds Together to Collaborate



**Kaustuv Sanyal**  
Jawaharlal Nehru  
Centre for Advanced  
Scientific Research  
Bangalore

## A genome-wide study to identify novel regulators of chromosome stability using a human pathogenic yeast *Candida albicans* as the model system

The investigators first generate a collection of *C. albicans* over-expression strains by transforming an existing collection of over-expression plasmids for ~5,000 *C. albicans* genes into a *C. albicans* LOH reporter strain. In a second step, the ~5,000 overexpression strains was individually monitored for the effect of over-expression on LOH frequency in *C. albicans*. Finally, selected genes identified in PIs screens was further characterized for their function.



**Christophe d'Enfert**  
Institut Pasteur Paris  
Paris

### Outcomes:

1. Identification of *C. albicans* genes whose over-expression triggers gross ploidy changes or chromosome loss.
2. Construction of a strain collection for the identification of genes whose over-expression alters chromosome stability and ploidy.
3. Construction of a reporter strain for monitoring whole chromosome loss the use of the chromium isotopic composition.



**Sandeep Krishna**  
National Centre for  
Biological Sciences  
TIFR  
Mumbai

## Pre-evolutionary processes in autocatalytic RNA networks

The investigators studying, theoretically and experimentally, the exciting capability of the system to shuffle sequences under recombination, and its implications for evolution. The team examined a few simplifications and variants of this ribozyme system, along with systems consisting of two *Azoarcus* ribozymes competing for the same nutrients. Some of these variants, are capable of exhibiting two (exponential) growth states and some are not. In particular, the *Azoarcus* ribozyme has to be further modified to include a catabolic and anabolic step in order to exhibit bistability under competition for common resources.



**Philippe NGHE**  
Laboratoire de Biochimie  
Ecole Supérieure de  
Physique et de Chimie  
Industrielle (ESPCI)

### Outcomes:

Investigator constructed a mathematical model in which the emergence of autocatalytic sets within vesicles can be demonstrated. In the context of artificial chemistry that contains autocatalytic sets and exhibits bistability, They found that the chance appearance of a catalyst molecule in one vesicle (out of a population of vesicles) pushes that vesicle into an attractor containing an autocatalytic set. This vesicle and its daughters get selected in the population due to their faster growth rate, thereby fixing the autocatalytic set in the population.



**Anish Ghosh**  
Tata Institute of  
Fundamental Research  
Mumbai

## Interactions between dynamical systems, geometry, and number theory

Investigate interactions between dynamical systems on homogeneous spaces, the geometry of discrete groups and number theory, especially Diophantine analysis and to develop new techniques to address outstanding problems in these subjects and position of carbonyl compounds.



**Arnaldo Nogueira**  
Aix Marseille University  
Marseille

The work done under this project have many applications in number theory and geometry.

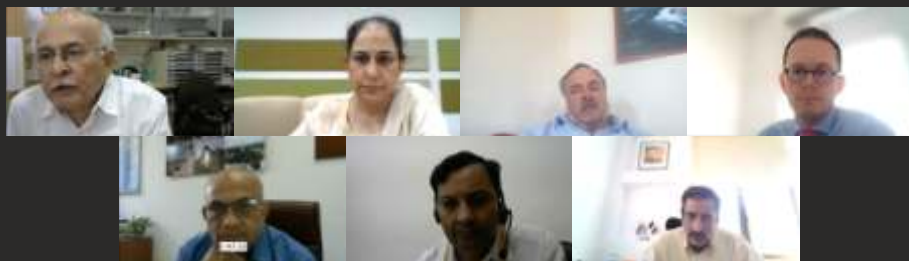
For more details on outcomes / impacts, please refer to CEFIPRA website.

## Forthcoming Events

- 35<sup>th</sup> Governing Body Meeting of CEFIPRA, May 2022.
- 14<sup>th</sup> Financial Sub Committee Meeting of CEFIPRA, May 2022.
- 68<sup>th</sup> Scientific Councils meeting, June, 2022.

## Review meeting under IARDP

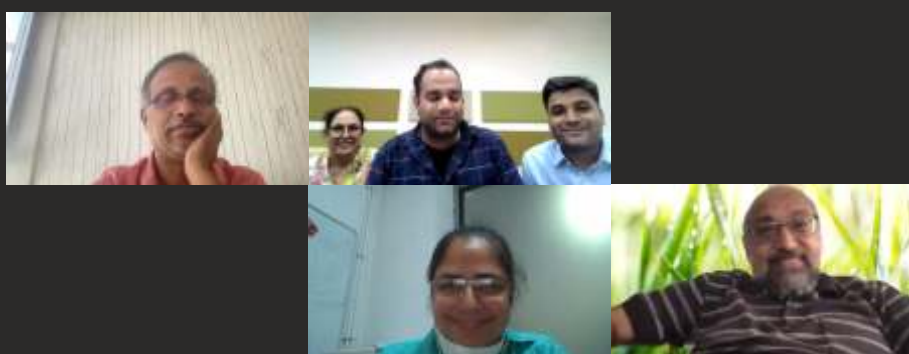
24 MARCH 2022



The Industrial Research Committee (IRC) of CEFIPRA met on 24 March 2022, to carry out a detailed evaluation of all the completed projects and progress of ongoing projects. Investigators from 5 completed + 4 ongoing projects were invited to make their presentations.

## Expert Committee Meeting for Review under DST-Inria/CNRS Targeted Programme

15 MARCH 2022



Expert Committee meeting was held to review progress of ongoing and final review of completed projects under DST-Inria programme. A total of 8 projects (7 ongoing and 1 completed) in sub areas of Information and Communication Science & Technology ICT (Big Data, Computer science for Biology and Life Sciences, Artificial Intelligence, Cyber Physical Systems, ICT and Applied Mathematics.

## 67<sup>th</sup> Scientific Council (SC) Meeting

10-13 JANUARY 2022



CEFIPRA organized 67th Scientific Council meetings virtually Under CSRP call a total of 88 proposals were received for July 2021 deadline and the Scientific Council preselected 41 proposals out of which 17 new Indo-French projects were recommended in the advanced areas CEFIPRA would also be facilitating interactions among Indian and French scientists by way of joint workshop in the area of disruptive nano-photonics.

## 37<sup>th</sup> Industrial Research Committee (IRC) Meeting

7-8 JANUARY 2022



CEFIPRA organized 37<sup>th</sup> Industrial Research Committee meetings virtually IRC considered 13 Industry-academia preselected proposals and two seminar proposals. However, IRC recommended seven new Indo-French Industrial-Academia projects on Technology Readiness Level and scientific merit in the advanced areas. CEFIPRA would also be facilitating interactions among Indian and French scientists and technologist by way of joint workshop in the area of Advanced Aerospace Materials.



# Building Bridges through Raman-Charpak Fellowship

The RCF programme provides Indian doctoral/French master scholars with advanced research experiences and expertises in host labs. Moreover, an opportunity for home and host supervisors and institutions to engage in Indo-French collaborations through doctoral research, in many instances leading to additional collaborations.

**Aditya Singh** (Indian)  
Senior Research Fellow (IIT Delhi)

*Title of PhD work:* **Van der Waals epitaxial growth of 2D-materials and effect of irradiation on its properties**

RCF has provided opportunity to have first-hand research experience in Raman/PL spectroscopy of low dimensional materials. With this gained cutting edge research knowledge, He could be able to do in-depth research in the spectroscopy of low dimensional materials.

**Prof. Stephane Berciaud** Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS) and Université de Strasbourg & CNRS (UMR 7504), Strasbourg.



**Akanksha Gupta** (Indian)  
IIT Kanpur

*Title of PhD work:* **Engineering the direction of propagation of oceanic surface waves**

RCF provided her to work on computational and analytical aspects of surface gravity waves and their interaction with bottom ripples.

**Dr. Michel Benoit** Irphé & Ecole Centrale Marseille Institut de Recherche sur les Phenomenes Hors Equilibre UMR 7342 Marseille.



**Meena Ghosh** (Indian)  
CSIR- National Chemical Laboratory

*Title of PhD work:* **Synthesis and development of efficient electrode materials for electrochemical energy storage devices**

Developed a binder-free V2O5 electrode for high-energy super capacitors in organic electrolyte. RCF provided her to work on two important electrochemical energy storage devices, namely supercapacitors and aqueous rechargeable batteries.

**Dr. Rabah Boukherroub** Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN) UMR CNRS 8520, Université de Lille, Villeneuve d'Ascq.



**Indu Joshi** (Indian)  
Senior Research Fellow (IIT Delhi)

*Title of PhD work:* **Efficient Fingerprint Matching of Rural Indian Population**

RCF provided to work with an eminent biometric researcher, translating fingerprint images to face images. The two institutes continuing collaborative research work and targeting a high-quality publication.

**Prof. Antitza Dantcheva** Inria Sophia Antipolis - Méditerranée Research Centre, Sophia Antipolis.



**Pranav Ajeet Nerurkar** (Indian)  
University of Mumbai

*Title of PhD work:* **Investigation of Techniques for Latent Space Representation of Networks**

RCF allows the scholar to research further on implementing a supervised learning approach that estimated the most discriminating features for detecting categories of illicit Bitcoin users.

**Prof. Yann Busnel** IMT Atlantique, Cesson-Sévigné.



**Mullaivananathan Vadivazhagan** (Indian)  
CSIR- Central Electrochemical Research Institute, Karaikudi

*Title of PhD work:* **Electrode materials in lithium and sodium-based energy storage devices**

Learned numerous techniques involved in batteries and their mechanism. His vision widens with better dimensions of thinking of his research field of batteries. His works mainly focused on the field of lithium and sodium-ion batteries.

**Dr. Sylvain Franger** University Paris Sud/ ICMMO/ERIEE, CNRS 8182, Orsay.



**Subarna Das** (Indian)  
University of Calcutta

*Title of PhD work:* **Synthesis and Characterizations of Sb2**

His study unravels the underlying Physics for good thermoelectric (TE) properties of Sb<sub>2</sub>Te<sub>2</sub> and also gives an idea of the concentration of the native defects for optimized TE performance of Sb<sub>2</sub>Te<sub>2</sub>.

**Prof. Antoine Maignan** Laboratoire de Cristallographie et Sciences des Matériaux (CRISMAT), Cean.



**Theo Pinguet-Poquet** (Francaise)  
IIT Delhi

*Title of PhD work:* **Screening of the transpiration response to vapour pressure deficit of Sorghum and Pearl millet: Assessing the variability of the physiological and genetic response to high versus low vapour pressure deficit during growth**

Provided great datasets to explore for the screening step of this research project and allowed him to learn hydroponic skills.

**Dr. Jana Kholova** ICRISAT (International Institute for the Semi-Arid Tropics), Hyderabad.



**Reetika Joshi** (Indian)  
Kumaun University, Nainital

*Title of PhD work:* **Formation and Dynamics of Solar Jets**

RCF provides an opportunity to understand the physical phenomena responsible before and during the solar jets observed from various ground and space borne instruments. The combined study of the observations of solar jet data and their theoretical explanation with French lab.

**Prof. Guillaume Aulanier** Observatoire de Paris, Lesia, Paris.



Le CEFIPRA, avec ses bureaux de New Delhi, constitue un guichet unique pour la coopération scientifique franco – indienne à travers les activités suivantes :

- Promotion de la coopération franco – indienne dans les domaines de pointe des sciences fondamentales et appliquées
- Développement de la coopération en identifiant les scientifiques et les institutions scientifiques des deux pays susceptibles d'interactions fructueuses
- Fourniture d'un soutien complémentaire aux instituts de recherche pour engager des chercheurs post – doctoraux et doctoraux
- Fourniture d'une assistance sous forme de subventions pour les consommables et les petits équipements nécessaires pour atteindre les objectifs du projet
- Echange de visites pour les scientifiques indiens et français offrant l'occasion de travailler dans des laboratoires français et indiens
- Organisation des ateliers/ séminaires et d'autres types de forums pour les scientifiques des deux pays afin d'offrir une interaction sur des sujets d'intérêt commun
- Promotion des projets de recherche appliquée et industrielle et à travers la mise en place de la collaboration entre institutions d'enseignement et de recherche et l'industrie
- La structure administrative du CEFIPRA vise à soutenir la mise en place, la promotion et

l'amélioration de la coopération bilatérale franco – indienne

IFCPAR offers a single window for enabling bilateral cooperation in science and technology between India and France through its office in New Delhi. The activities of IFCPAR include:

- Promotion of cooperation in advanced areas of fundamental and applied scientific research between India and France.
- Development of cooperation through identification of scientists and scientific institutions of the two countries like to cooperate in a profitable way.
- Provision of complementary support to the research institutes for engaging doctoral and post-doctoral researchers.
- Provision of assistance in the form of grants for consumables and small equipments necessary for achieving the objectives of the project.
- Exchange visits for Indian and French scientists providing an opportunity to work in French and Indian laboratories.
- Organization of workshops/seminars and other fora for scientists of both countries to interact on topics of mutual interest.
- Promotion of applied/industrial research projects through collaboration between educational and research institutions and industry.

The management structure of IFCPAR is aimed at fostering, promoting and enhancing bilateral cooperation between Indian and France.

## Projets de recherche collaboratifs

La recherche en collaboration entre les scientifiques indiens et français est soutenue dans les domaines de pointe en fonction de la valeur ajoutée de la collaboration par rapport à l'excellence intrinsèque de chaque scientifique ou laboratoire. Les compétences fondamentales et la création de savoir sont générées par les échanges d'étudiants au sein de chaque programme.

Les projets sont soumis à l'évaluation par les pairs et examinés par des experts français et indiens avant leur présentation devant le Conseil Scientifique. Chaque projet fait l'objet d'une procédure d'autorisation de la part des deux gouvernements avant sa mise en route.

Les projets de recherche doivent en principe appartenir aux domaines suivants :

- Mathématiques pures et appliquées
- Informatique
- Sciences de la vie et de la santé
- Physique pure et appliquée
- Chimie fondamentale et appliquée
- Sciences de la terre et de la planète
- Sciences de la matériaux
- Sciences de l'environnement
- Autres domaines
  - Sciences de l'eau
  - Biotechnologies
  - Technologies de l'Information et de la Communication

## Collaborative Research Projects

Collaborative research projects between scientists of India and France in an advanced area, essentially complementing the core strengths of the individual scientists/groups, in cutting edge science & technology are supported. Core competence and knowledge base in a specific area is generated through exchange of students under the programme.

The project proposals undergo a system of closed peer review by experts in India and France, before being considered by the Council. All projects go through a process of clearance from both Governments before the projects are implemented.

Proposals for collaborative research should normally be in topics which fall under any of the areas given below:

- Pure and Applied Mathematics
- Computer and Information Sciences
- Life and Health Sciences
- Pure and Applied Physics
- Pure and Applied Chemistry
- Earth and Planetary Sciences
- Material Sciences
- Environmental Sciences
- Others
  - Water
  - Biotechnology
  - Technology for Information and Communication

## Séminaires / Ateliers

Le CEFIPRA organise également des séminaires/ ateliers sur des sujets d'actualité scientifique et d'intérêt commun entre la France et l'Inde. Les propositions proviennent de collaborateurs français et indiens. Ces séminaires/ ateliers se tiennent soit en France soit en Inde. Ils constituent des forums, non seulement pour la circulation des connaissances, mais aussi pour la naissance de nouveaux projets communs entre spécialistes des deux pays.

## Seminar/Workshop

CEFIPRA organises Seminars/ Workshops in topics of current relevance and interest to both India and France. Proposals for organizations workshops/ Seminars are jointly submitted by French and Indian scientists. They may be held either in India or in France. These seminars / workshops serve as a forum / platform not only for sharing of knowledge /expertise in an advanced area but also result in collaborative projects between the scientists and technologists from the two countries.

## DST-Inria-Targeted Programme

Domaines: Intelligence Artificielle, Big Data, Informatique pour la Biologie et les Sciences du Vivant, Intelligence Artificielle, Systèmes Cyber Physiques, Toute autre proposition en STIC et Mathématiques Appliquées pourra également être considérée.

- 22 projets soutenus (6 en cours + 17 terminés)
- 8<sup>e</sup> appel à propositions de 2021 dans les domaines de l'intelligence artificielle, de la cybersécurité et du traitement du signal. Le comité d'experts s'est réuni le 6 décembre 2021 et 3 propositions ont été recommandées pour un soutien.

Visitez le site [www.cefipra.org](http://www.cefipra.org) pour des informations détaillées.

## DST-Inria-Targeted Programme

Areas: Artificial Intelligence, Big Data, Computer science for Biology and Life Sciences, Artificial Intelligence, Cyber Physical Systems, Any other proposal in ICST and Applied Mathematics may also be considered.

- 22 projects supported (6 ongoing + 17 completed)
- 8<sup>th</sup> Call for proposals of 2021 in areas of Artificial Intelligence, Cybersecurity & Signal Processing. Expert Committee met on 6 December, 2021 and 3 proposals recommended for support.

Visit Web-site [www.cefipra.org](http://www.cefipra.org) for detailed information.

## Raman-Charpak Fellowship

Le programme vise à faciliter l'échange de doctorants et d'étudiants en master indiens et français [Seulement depuis la France]



### Soutien à la bourse:

- Pour le boursier indien : 1 500 euros par mois pour les dépenses quotidiennes, les déplacements locaux, les frais d'hébergement plus les charges de sécurité sociale.
- Pour les boursiers français : Rs. 40 000 par mois pour les dépenses quotidiennes, les déplacements locaux, etc. plus les frais d'hébergement ne dépassant pas Rs. 45 000 par mois.

**Durée:** 2 à 6 Mois.

**Domaines:** sciences de l'atmosphère, sciences de la Terre et de l'environnement, sciences des matériaux, sciences physiques, sciences chimiques, sciences de l'ingénieur, sciences mathématiques et computationnelles, sciences biologiques, sciences de la vie et sciences médicales.

**Procédure de candidature:** système de soumission en ligne  
<http://www.cefipra.org/proposal/Index.aspx>

### Calendrier:

- Lancement des applications : avril
- Fin la date limite : mai/juin
- Résultat : d la fin d'août/septembre
- La Date de commencement de la bourse : à partir de septembre

## Raman-Charpak Fellowship

Programme aims to facilitate the exchange Indian & French PhD research scholars and Masters Students [only from France]



### Fellowship Support:

- For Indian Fellow: Euros 1500 per month for daily expenses, local travel, accommodation charges plus Social Security charges.
- For French Fellow: Rs. 40,000 per month for daily expenses, local travel, etc. plus accommodation charges not exceeding Rs. 45,000 per month.

**Duration:** 2 to 6 Months.

**Areas:** Atmospheric Sciences, Earth Sciences and Environmental Sciences, Materials Sciences, Physical Sciences, Chemical Sciences, Engineering Sciences, Mathematical and Computational Sciences, Biological Sciences, Life and Medical Sciences.

**Application procedure:** online submission system  
<http://www.cefipra.org/proposal/Index.aspx>

### Time line:

- Launching of applications: April
- End of deadline: May/June
- Result: End of August/September
- Starting date of fellowship: September onwards.



Le Centre Franco-Indien pour la promotion de la recherche avancée (IFCPAR/CEFIPRA) est un modèle de recherche collaborative internationale dans les domaines avancés de la science et de la technologie. Le Centre a été créé en 1987 et est soutenu par le Département de la science et de la technologie du gouvernement indien et le ministère de l'Europe et des affaires étrangères du gouvernement français. Le CEFIPRA s'implique activement dans le soutien du système indo-français de la science, de la technologie et de l'innovation (ST&I) à travers diverses activités. Le programme de recherche collaborative scientifique se concentre sur les collaborations universitaires entre universitaires indiens et français.

Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA) is a model for international collaborative research in advanced areas of Science & Technology. The Centre was established in 1987 and is being supported by Department of Science & Technology, Government of India and the Ministry for Europe & Foreign Affairs, Government of France. CEFIPRA is actively involved in supporting Indo-French Science, Technology & Innovation (ST&I) system through various activities. Scientific Collaborative Research Programme focuses on academia-to-academia collaborations between Indian and French academic collaborators.

### Reach us at:

**Indo-French Centre for the Promotion of Advanced Research (IFCPAR)/  
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