

## Ongoing projects under Collaborative Scientific Research Programme

S.No.	Project No	Title of the project	Indian PI First Name	Indian PI Last Name	Indian Institution	City	French PI First Name	French PI last Name	French Institution	City
1	4509-1	Controlling for upscaling uncertainty in assessment of Forest aboveground biomass in the Western Ghats of India	Dr. V.K.	Dadhwal	National Remote Sensing Centre	Hyderabad	Dr. Pierre	Couteron	UMR AMAP	Montpellier
2	4704-3	Rotating and curved boundary-layer instabilities	Dr. Rama	Govindaraj	Tata Institute of Fundamental Research	Hyderabad	Prof. Benoît	Pier	CNRS	Ecully Cedex
3	4800-B1	Studying the role of rpoN, the alternative sigma factor, in the pathogenicity of <i>R. solanacearum</i> , the causal agent of bacterial wilt in plants	Prof. Suvendra Kumar	Ray	Tezpur University	Tezpur	Dr. Stéphane	Genin	INRA Laboratoire des Interactions Plantes Micro-organisms-	Castanet Tolosan Cedex
4	4903-1	Control of melanosome biogenesis by small GTPases	Dr. Subba Rao Gangi	Setty	Indian Institute of Science	Bangalore	Dr. Graça	Raposo	CNRS Institut Curie	Paris cedex 05
5	4903-2	Study of neural development in hiPS models of microcephaly	Dr. Narendrakumar	Ramanan	Indian Institute of Science	Bangalore	Dr. Pierre	Gressens	INSERM Hôpital Robert Debre	Paris
6	4903-4	Global transcriptomics of sex specific splicing	Dr. K.P.Arun	Kumar	Centre for DNA Fingerprinting and Diagnostics	Hyderabad	Dr. Leonard	Rabinow	CNRS Centre de Neurosciences de Paris Sud	Orsay
7	4904-1	Reversals of a large scale field on a turbulent background	Prof. Mahendra Kumar	Verma	Indian Institute of Technology	Kanpur	Prof. Stephan	Fauve	Ecole Normale Supérieure	Paris
8	4904-2	Studies of spin ladder and heavy fermion systems in extremen conditions of hydrostatic or uniaxial pressure and low temperature	Dr. S.	Arumugam	Bharathidasan University	Tiruchirappalli	Dr. Daniel	Braithwaite	CEA Institut Nanosciences et Cryogénie-	Grenoble cedex 9
9	5001-1	Hypergeometric functions: harmonic analysis and representation theory	Dr. E. K.	Narayanan	Indian Institute of Science	Bangalore	Prof. Angela	Pasquale	Universit' de Lorraine - Metz	Vandœuvre Nancy
10	5003-1	Muscle SC self-renewal: A stressful matter?	Prof. Jyotsna	Dhawan	National Centre for Biological Sciences, TIFR, Institute for Stem Cell Biology and Regenerative Medicine	Bangalore	Dr Ana	FERREIRO	INSERM (Institut National de la Santé et la Recherche Médicale)	Paris
11	5004-1	Advanced Computational Models to Facilitate Solar Activity and Space Weather Predictions	Dr. Dibyendu	Nandi	Indian Institute of Science Education and Research, Kolkata	Mohanpur	Dr. Laurène	JOUVE	Institut de Recherches en Astrophysique et Planétologie	Toulouse
12	5005-1	Influence of the Resorcin[4]arene on the Catalytic Outcomes	Dr. R.	Ramesh	Bharathidasan University	Tamil Nadu	Dr. D.	Sémeril	Université de Strasbourg	Strasbourg Cedex

13	5005-2	Design and synthesis of new C1-symmetric biaryl-based ligands and catalysts and their evaluation in asymmetric catalytic reactions	Dr. Pradeep Kumar	Kumar	National Chemical Laboratory	Maharashtra	Dr. Frédéric LEROUX	LEROUX	ECPM University of Strasbourg, UMR 7509/CNRS/ECPM – Chimie Moléculaire	Strasbourg
14	5007-1	Cenozoic denudation of South India	Prof. M. Jayananda	Jayananda	University of Hyderabad	Hyderabad	Dr. Anicet BEAUVAIS	BEAUVAIS	CEREGE – Aix Marseille University, UMR 7330 CNRS and 161 IRD	Aix-en-Provence
15	5100-IT-1	Monte Carlo and Learning Schemes for Network Analytics	Vivek S. Borkar	Borkar	Indian Institute of Technology	Mumbai	Konstantin Avrachenkov	Avrachenkov	Inria Sophia Antipolis - Méditerranée	Nice
16	5103-1	The Immuno-Psychiatry in South India Study (IPS): Immunogenetic and Immuno-phenotype Characterization of Major Psychoses	Dr. Vir Singh Negi	Negi	Jawaharlal Institute of Postgraduate Medical Education and Research	Pondicherry	Dr. Ryad Tamouza	Tamouza	INSERM U 942, Saint Louis Hospital	Paris
17	5103-2	Olfactory Modulation of Insect Flight	Prof. Gaiti Hasan	Hasan	TIFR National Centre for Biological Sciences	Bangalore	Dr Jean-François Ferveur	Ferveur	(CSGA) UMR-CNRS6265/INRA1324/	Dijon
18	5103-3	Genome-scale analysis of differential propensities of different chromosomal domains for horizontal gene insertion in <i>Escherichia coli</i>	Aswin Sai Narain	Seshasayee	TIFR National Centre for Biological Sciences	Bangalore	Marco Cosentino Lagomarsino	Lagomarsino	UMR 7238 CNRS	Paris
19	5103-4	Decipher the symbiotic program in tropical legumes	Dr. Maitrayee DasGupta	DasGupta	University of Calcutta	Kolkata	Dr. Fabienne Cartieaux	Cartieaux	Laboratoire des Symbioses Tropicales & Méditerranéennes (IRD)	Montpellier cedex 5
20	5104-1	Magnetic nanoparticles for hyperthermia and spintronics	Varsha BANERJEE	BANERJEE	Indian Institute of Technology	Delhi	Julian CARREY	CARREY	INSA Toulouse / Laboratoire de Physique et Chimie des Nano-Objets	Toulouse cedex
21	5104-2	SELF-SIMILAR OPTICAL PATTERNS IN NONLINEAR MEDIA	Prof. K. Porsezian	Porsezian	Pondicherry University	Pondicherry	Prof. Ph. Grelu	Grelu	UMR 6303 CNRS, Université de Bourgogne	Dijon Cedex
22	5105-1	Glycochemical Studies on Mycobacterial Arabinomycolate	SRINIVAS HOTHAN	HOTHAN	Indian Institute of Science Education and Research	Pune	THIERRY BENVENU	BENVENU	Ecole Nationale Supérieure de Chimie de Rennes – UMR CNRS 6226	Rennes cedex 7
23	5105-2	Molybdenum-containing enzymes: bioinspired peptidic catalysts for CO2 reduction	Surajit SINHA	SINHA	Indian Association for Cultivation of Science IACS	Kolkata	REGLIER Marius	Marius	Aix-Marseille Université, ISM2 UMR CNRS	Marseille Cedex
24	5105-3	Phosphorus-supported multisite coordinating ligands for the assembly of polynuclear heterometallic (3d-4f) and homonuclear (3d) ensembles: Towards a new generation of molecular magnetic materials	Prof. Vadapalli Chandrasekhar	Chandrasekhar	National Institute of Science Education and Research	Bhubaneswar	Dr. Hab. Rodolphe Clérac	Clérac	University Bordeaux	Pessac

25	5105-4	sp <sup>3</sup> C-H Bond Activation with Ruthenium(II) Catalysts: Application to the Synthesis of Aliphatic N-Heterocyclic Natural Products	Dr. G. V. M. Sharma	Sharma	CSIR-Indian Institute of Chemical Technology	Hyderabad	Dr. Christian Bruneau	Bruneau	Université de Rennes 1	Rennes
26	5108-1	Synthesis of Photocatalytic Porous Silicon-Containing Nitride and Oxynitride Nanocomposites	Dr. N.V	Ravi Kumar	Indian Institute of Technology-Madras	Chennai	Dr. Samuel Bernard	Bernard	Institut Européen des Membranes (IEM UMR 5635 CNRS)	Montpellier cedex 5
27	5109-1	Survey of soil-Si pools and contribution of Si fertilization in a sustainable rice cultivation in South India	Dr N.B.	Prakash	University of Agricultural Sciences	Bangalore	Dr J.D.	Meunier	CEREGE-Université d'Aix-Marseille III	Marseille
28	5203-1	Molecular study of RH gene variants in Indians	Dr. Swati	Kulkarni	National Institute of Immunohaematology	mumbai	Dr. Yann FICHOU	FICHOU	Inserm U1078 Etablissement Français du Sang – Région Bretagne	Provence-Alpes-Côte d'Azur
29	5203-2	Insights on protein structural and evolutionary dynamics	Prof. Narayanaswamy	Srinivasan	Indian Institute of Science	Bangalore	Dr. G Alexandre de	Brevern	Université Paris Diderot	Brest Cedex 2
30	5203-3	Host-Virus Interactions and Antibody Therapy for Japanese Encephalitis	Dr Manjula	Kalia	Translational Health Science and Technology Institute	Gurgaon	Dr Sebastien	Lacroix-Desmazes	INSERM (Institut National de la Santé Et de la Recherche Médicale)	Paris
31	5203-4	Novel inhibitors of NHEJ against resistant tumour cells	Dr. Sathees C. Raghavan	Raghavan	Indian Institute of Science	Bangalore	Dr.Jean-Baptiste	CHARBONNIER	CEA Saclay	Paris
32	5203-5	Characterisation of factors that determine the balance between genomic integrity and diversity in Helicobacter pylori	Dr. Desirazu Narasimha	Rao	Indian Institute of Science	Bangalore	Dr J. Pablo	Radicella	CEA-Fontenay aux Roses	Gif-s-Yvette Cedex
33	5204-1	Monomode and multimode phase sensitive amplification and light storage	Dr.Rupamanjari	GHOSH	Shiv Nadar University	Greater Noida	Dr.Fabien	Bretenaker	Laboratoire Aimé Cotton-CNRS	Fontenay aux Roses
34	5204-2	Radio properties of clusters and galaxy lenses	Prof. Joydeep	Bagchi	Inter University Centre for Astronomy and Astrophysics	pune	Dr.Bruno	Guiderdoni	Observatoire de Lyon-CRAL	Orsay Cedex
35	5204-3	MODELLING PLASMA INSTABILITIES AND TRANSPORT IN A HALL THRUSTER	Prof.HITENDRA KUMAR	MALIK	Indian Institute of Technology	Delhi	Prof.Fabrice	DOVEIL	UMR 7345 du CNRS / Aix Marseille Université	Saint Genis Laval Cedex
36	5204-4	Holography and its Applications	Prof.Sandip	Trivedi	Tata Institute of Fundamental Research	mumbai	Dr. Nick	Halmagyi	UPMC, Sorbonne Universités	Marseille Cedex 13
37	5208-1	Plasticity of covalent nanoparticles	Prof. Umesh V.	Waghmare	Indian Institute of Science	Bangalore	Dr. Laurent	Pizzagalli	CNRS-University of Poitiers-ISAE ENSMA	Paris Cedex 05
38	5208-2	Novel nanocatalysts synthesis guided by DNP NMR	Prof.Vivek	Polshettiwar	Tata Institute of Fundamental Research	mumbai	Prof. Olivier	Lafon	CNRS UMR, Université of Lille 1	Futuroscope

39	5302-1	Large-Scale Loss-based Learning via Energy Minimization	Prof. C V	Jawahar	International Institute of Information Technology Hyderabad	Hyderabad	Prof. Cordelia	Schmid	INRIA	Villeneuve d'Ascq Cedex
40	5303-1	Deciphering the role of <i>Mycobacterium tuberculosis</i> Serine/Threonine protein phosphatase <i>PstP</i>	Dr. Vinay Kumar	Nandicoori	National Institute of Immunology	New Delhi	Dr. Virginie	Molle	Université Montpellier 2,	Grenoble
41	5303-2	Original biocompatible phosphorus dendrimers as a new strategy to tackle pulmonary tuberculosis	Prof. Kishore K	Srivastva	Central Drug Research Institute	Lucknow	Dr. Anne-Marie	Caminade	CNRS - UPR8241 Laboratoire de Chimie de Coordination	Place Eugène Bataillon
42	5304-1	Theoretical studies on ultra-cold Dipolar Gases	Prof. Rejish	Nath	Indian Institute of Science Education and Research Pune	Pune	Prof. Paolo	Pedri	CNRS -UMR7538 Laboratoire de Physique des Lasers	Toulouse
43	5304-2	Symmetries and dynamics: worldsheet and spacetime	Prof. Debashis	Ghoshal	Jawaharlal Nehru University	New Delhi	Prof. Ruben	Minasian	CEA – Saclay Institut de Physique Théorique	Villetaneuse
44	5304-3	Quantum transport in 2D van der Waals heterostructures based on graphene and Boron Nitride	Dr. Aweek	Bid	Indian Institute of Science, Bangalore	Bangalore	Dr. Vincent	Bouchiat	Neel Institute CNRS-Grenoble	Orme des merisiers
45	5305-1	Axially chiral biaryls from C-H activation & radicals	Dr. K Rajender	Reddy	Indian Institute of Chemical Technology Tarnaka	Hyderabad	Dr. Françoise	Colobert	ECPM-Chimie Moléculaire ;Université de Strasbourg, UMR 7509/CNRS/ECPM	Grenoble
46	5307-1	Advanced time-domain integration schemes for the simulation of Earth and planetary core dynamics	Prof. Binod	Sreenivasa n	Indian Institute of Science	Bangalore	Dr. Alexandre	Fournier	Institut de Physique du Globe	Strasbourg
47	5308-1	Magnetism of self-organized structures at surfaces	Dr. Shobhana	Narasimha n	Jawaharlal Nehru Centre for Advanced Scientific Research Jakkur	Bangalore	Dr. Sylvie C	Rousset	Université Paris Diderot – Paris 7, MPQ – UMR CNRS 7162	Paris
48	5300-B1	A comparative Systems Biology Approach for Understanding Desiccation Tolerance in Forage Grasses and Selaginella sps.	Dr. R.G.	Sharathchandra	Centre for Bioinformtion	Tumkur	Dr. Azeddine	Driouich	Université de Rouen, IRIB-PRIMACEN-IBISA	Paris
49	5401-1	Sums of integers: Fourier, combinatorics, computation	Prof. Balasubramania n	Ramachandran	The Institute Of Mathematical Sciences	Chennai	Prof. Jean-Marc	Deshouillers	Institut Mathématique de Bordeaux	Mont Saint-Aignan
50	5403-1	Pathogenic Aspergillus: Interaction with innate immune cells	Dr. Lalitha	Prajna	Aravind Medical Research Foundation	Madurai	Prof. Jean-Paul	Latgé	Institut Pasteur	Talence
51	5404-1	LORIC: LOng-Range Interactions in ultraCold gases	Prof. Sadiqali Abbas	Rangwala	Raman Research Institute	Bangalore	Dr. Olivier	Dulieu	Laboratoire Aimé Cotton	Paris
52	5404-2	Glimpses of New Physics	Prof. Gautam	Bhattacharyya	Saha Institute of Nuclear Physics	Kolkata	Dr. Emilian	Dudas	Ecole Polytechnique	Orsay

53	5405-1	H2 evolution: cheap catalysts for noble task	Prof. Abhishek	Dey	Indian Association For The Cultivation Of Science	Kolkata	Dr. Vincent	Artero	CEA Centre De Grenoble	Palaiseau
54	5408-1	Understanding mechanical size effects in metallic micro-wires: synergy between experiments and simulation	Prof. Atul	Chokshi	Indian Institute Of Science	Bangalore	Prof. Ludovic	Thilly	Université De Poitiers	Grenoble
55	5409-1	CHROMiTe: Assessment of CHromium Release from sukinda mining Overburden: an IsoTopic, chemical, physical and microbiological study	Prof. S.	Subramanian	Indian Institute Of Science	Bangalore	Dr. Yann	Sivry	Institut De Physique Du Globe De Paris	Futuroscope
56	5503-1	Elucidation of conserved molecular signatures and regulators for blood cell progenitor maintenance	Prof. Maneesha S	Inamdar	Jawaharlal Nehru Centre for Advanced Scientific Research	Bangalore	Dr Lucas	Waltzer	Centre de Biologie du Développement	Paris
57	5503-2	Molecular analysis of a capacitor Hox protein motif	Prof. L S	Shashidhar a	Indian Institute of Science Education and Research	Pune	Dr. Samir	Merabet	Institut de Génomique Fonctionnelle de Lyon (IGFL) -ENS-Lyon CNRS/UMR5242,	Toulouse
58	5504-1	Wavelet Graphs for Gravitational Wave Searches	Dr. Archana Arun	Pai	Indian Institute of Science Education and Research	Thiruvananthapuram	Dr. Eric	Chassande-Mottin	University Paris Diderot	Paris
59	5504-2	Cosmological evolution of the cold gas from quasar absorption lines	Prof. Neeraj	GUPTA	Inter-University Center for Astronomy and Astrophysics	Pune	Dr. Pasquier	Noterdaeme	Institut d'Astrophysique de Paris	Paris
60	5504-3	Electrical addressing and control of the plasmonic properties of coupled metal nanowire	Prof G.V. Pavan	Kumar	Indian Institute of Science Education and Research,	Pune	Dr. Alexandre	Bouhelier	Universit'e de Bourgogne	Dijon
61	5505-1	N-Heterocyclic Carbene (NHC)-Organocatalyzed Enantioselective Trifluoromethylation and Trifluoromethylthiolation of Unactivated C-H Bonds	Dr. Akkattu T	Biju	CSIR-National Chemical Laboratory	Pune	Dr. Tatiana	BESSET	Université de Rouen	Mont st. Aignan
62	5505-2	Chiral Phosphahelicenes in Gold(I) Enantioselective Catalysis	Prof. Akhil Kumar	Sahoo	University of Hyderabad	Hyderabad	Dr. Angela	Marinetti	Institut De Chimie Des Substances Naturelles (ICSN), UPR2301	Gif Sur Yvette
63	5601-1	p-adic aspects of automorphic forms and their L-functions	Prof. Anantharam	Raghuram	Indian Institute Science Education And Research	Pune	Mr. Mladen	Dimitrov	CNRS / University Lille 1	Villeneuve d'Ascq
64	5603-1	Functional genomics of glioblastoma: from epigenetics to proteomic investigation of tumor initiating cell secretome	Dr. Kumaravel	Somasundaram	Indian Institute Of Science	Bangalore	Dr. Philippe	Marin	Institut de Génomique Fonctionnelle	Montpellier
65	5604-1	Modeling Soft Glassy Flow from Micro to Macro Scale	Dr. Pinaki	Chaudhuri	Institute of Mathematical Sciences	Taramani,	Dr. Kirsten	Martens	Laboratoire Interdisciplinaire de Physique	Saint Martin d'Hères

66	5604-2	Extreme events and large deviations in strongly correlated many body systems	Prof. Abhishek	Dhar	International Centre For Theoretical Sciences	Bangalore	Dr. Gregory	Schehr	Université Paris-Sud- Laboratoire de Physique Theorique et Modeles Statistiques (LPTMS)	Orsay
67	5604-3	Interplay between MgO oxygen vacancies and tunnelling spin transfer torque	Dr. Pranaba	Kishor Muduli	Indian Institute Of Technology	New Delhi	Dr. Martin	Oliver Bowen	Institut of Physics and Chemistry of Strasbourg	Strasbourg
68	5605-1	Metal chelators derived from imidazole thiones and selones for detoxification	Dr. Gouriprasanna	Roy	Shiv Nadar University	Uttar Pradesh	Dr. Pascale	Delangle	CEA Centre de Grenoble INAC / SyMMES, Team Reconnaissance Ionique et Chimie de Coordination	Grenoble
69	5607-1	Impact of the Indian Monsoon convection on the Tropical Tropopause Layer and climate	Prof. Kesavapillai	Mohanaku mar	Cochin University Of Science & Technology	Ernakulam	Dr. Bernard	Legras	Ecole Normale Supérieure	Paris
70	5608-1	Biodegradable core shell electrospun mats and interconnected porous scaffolds for tunable anticancer drug delivery and tissue engineering application	Prof. Narayana	S Kalkura	Anna University	Chennai	Dr. Mikhael	Bechelany	European Institute Of Membranes de Montpellier	Montpellier