DST-SWEDEN(VR) COOPERATION

LIST OF RECOMMENDED POJECTS

S.No.	Project title	Indian PI	Swedish PI
1	Technological Innovations In Regenerative Medicine With New Functional Biomaterials Combating Increased Bacterial Resistance In Emerging Bone And Joint Infections	Ashok Kumar Professor Ph.D Indian Institute of Technology Kanpur Address: Department of Biological Sciences and Bioengineering IIT-Kanpur, 208016, UP, India	Lars Lidgren Professor M.D., Ph.D. Lund University Address: Department of Orthopedics, Clinical Sciences Lund, Lund-221 85, Sweden
2	Use of Nanoparticles as Protein Aggregation Modulators for Health Care and Pharmaceutical Applications	Subramanian Venkatesan Senior Principal Scientist Ph.D. Central Leather Research Institute Address: Sardar Patal Road, Adyar Chennai 600 020, India	Hans Agren Professor Ph.D Royal Institute of Technology/Stockholm, Sweden Address: Roslackstullsbacken 15 ,10639, Stockholm
3	Role of allosteric mutations in HIV-1 protease drug resistance: Useful insights for rational drug design	Sanjib Senapati Professor Ph.D Address: Department of Biotechnology Indian Institute of Technology, Madras Chennai 600 036, India	Jens Carlsson Assistant Professor Ph.D. Uppsala University Address: Department of Medicinal Chemistry, BMC, Uppsala University, P.O. Box 574, SE-751 23 Uppsala, Sweden
4	Mycobacterial Cell Morphology and Antibiotic Resistance - an Indo	Dipankar Chatterji Professor Indian Institute of Science,	Leif A Kirsebom Professor Address: Dept of Cell and

	Swedish Initiative	Address : Bangalore – 560012	Molecular Biology, Box 596, Uppsala University, Uppsala, Sweden
5	Mining of medical image data with uncertainty for cardiovascular and pulmonary diseases	Anjaneya Murthy Chivukula Professor (HAG scale) M. Stat., Ph.D. Indian Statistical Institute (ISI), Kolkata Address: Machine Intelligence Unit, ISI, 203 B. T. Road, Kolkata – 700108, Indian	Orjan Smedby Professor Dr. Med. Sci. KTH Royal Institute of Technology/School of Technology and Health (STH) Address: Alfed Nobels alle 10 SE-14152 Huddinge Sweden
6	How do neuronal variability and noise affect network computations	Upinder Bhalla Professor Ph.D. National Centre for Biological Sciences, TIFR Address: Bellary Road, Bangalore 560065	Arvind Kumar Assistant Professor Ph.D. KTH, Royal Institute of Technology, Sweden Address: KTH, Linstedsvaegen 24 100 44 Stockholm Sweden
7	Antimicrobial Peptides Against Crops Disease	Anirban Bhunia Associate Professor Ph.D. Bose Institute Address: Department of Biophysics, Bose Institute P- 1/12 CIT Scheme VII (M), Kolkata 700054, India	Martin Malmsten Professor, Head of Department Uppsala University Address: Department of pharmacy Biomedical Centre P.O. Box 580 SE- 751 23 Uppsala, Sweden
8	Mother, father, child & diabetes risk -interplay between genes & environment in India & Sweden. A transethnic study of parent-of-origin effects in fetal	Chittaranjan Yajnik Director Diabetes Unit, 6 th floor, Banoo Coyaji Building, KEM Hospital Research Center, Rasta Peth, Pune- 411011 Address: Diabetes Unit, KEM	Rashmi Prasad Postdoctoral Researcher Ph.D. Address: Diabetes and Endocrinology, Department of Clinical Sciences, Faculty of

	programming of diabesity using –omics approaches	Hospital Research Center, Pune	Medicine, Lund University, SE 20502 Malmo, Sweden
9	Understanding the association between the prevalence of antibiotic resistance and CRISPR repeats in UPEC E. coli causing UTI	Manisha Yadav Assistant Professor Ph.D Address: Dr. B. R. Ambedkar centre for Biomedical Research (ACBR), University of Delhi, Delh -110007, India	Diarmaid Hughes Professor Ph.D. Uppsala University, Sweden Address: Department of Medical Biochemistry and Microbiology 582 SE -751 23, Uppsala, Sweden
10	Deep Learning for Bioinformatics/Life Sciences	Michael M Gromiha Associate Professor Ph.D., Indian Institute of Technology- Address: Madras, Chennai - 600036	Arne Elofsson Professor Ph.D., Science for Life Laboratory, Stockholm University Address: Box 1031, 17121 Solna, Sweden
11	In Silico Studies of Magnetic and Vibrational Properties of Porphyrins for Diagnostic Applications	Md Ehesan Ali Scientist-E (Associate Professor) Ph.D. Institute of Nano Science and Technology-Mohali Address: Habitat Centre, Phase-10, Sector-64, Mohali, Punjab	Peter Oppeneer Professor, Ph.D. Department of Physics and Astronomy Address: Uppsala University, Box 516 751 20 Uppsala, Sweden
12	Landscape of genomic alterations in Human Papilloma Virus Infection associated cancers— a genomics, bioinformatics and computational approach	Showket Hussain Scientist-C Ph.D Address: Division of Molecular Oncology, Institute of Cytology & Preventive Oncology, Indian Council Of Medical Research (ICMR) Department of Health Research (Ministry of Health & Family Welfare, Govt. of	Neha Singh Docent PhD, Postdoc Address: School of Bioscience Research Centre University of Skovde PO Box 408 SE-541 28 Skovde, Sweden

	India), I-7, Sector-39, Noida 201301, India	

The above proposals have been recommended by both Indian and Swedish Subject Expert Committees. The Indian Project Investigators are requested to submit the enclosed check list(Annexure-I), bank details (Annexure-II) and Budgetary details as proposed in the project with sufficient justification for processing the individual cases for sanctioning the Projects from DST side. The documents submitted by post to the following address.

Dr. Chadaram Shivaji
Scientist – F
International Bilateral Cooperation Division
Department of Science & Technology
Ministry of Science and Technology
Government of India
Technology Bhavan, New Mahrauli Road
New Delhi – 110016
Email: sivaji@nic.in

Annexure-I

CHECKLIST

1. Title of the Project :

2. Initiating Institute of project :

3. Sponsoring Agency/Ministry :

4. Total cost of the project :

Nature and Quantum of foreign

Collaboration sought

(i) Financial support: :

(ii) Equipment support :

(iii) Technical support :

(iv) Manpower training :

(v) Miscellaneous :

5. Is there any possibility, however : remote of use of data, information

of result of the work which may

impinge on India's national security?

If yes, the nature of such a use may

be indicated. (In case the concerned

scrutinizing Ministry do not have clear

answer, the matter should be referred

to the DRDO and MHA for examination).

II. ORIGIN OF THE PROJECT AND ITS SPONSORS:

6. If the proposal is foreign-originated, what is the background of the foreign

agency or organization which is sponsoring

the project? Information available, if any on

past collaboration by foreign agency with

Indian Institution.

- 7. Are the foreign agency, organization, scientists concerned, known to have taken up any project of military significance in the past or are known to be associated with any military organization or project? (if the above information is not known or if there is definite information that there is no such association, these should be clearly indicated).
- 8. Is the proposer (Indian) known to the foreign collaborator and his group for some time and has this emerged naturally from the research work done by the two sides?

....2/-

III. FUNDING OF THE PROJECT

- 9. Is the foreign source know to have funded research into sensitive and national security areas in its own country or in other countries?
- 10. Are there reasons to believe that the foreign source is a cover name for some other sponsor?

IV. ADMINISTRATION AND CONTROL OF THE PROJECT

- 11. Give a list of the likely places of visit: within the country planned by the foreign collaborator. Also give a list of the institutions which the collaborator is likely to visit.
- 12. Will any sensitive source material be referred to during the course of the research?
- 13. (I) Does the collaboration involve
 - a) Transfer of biological material(s)

	b)	Use of radioactive materials	:
	c)	Use of environmentally or otherwise hazardous material(s)	:
	d)	Use of Genetically Modified Organisms	:
	e)	Field trials or testing	:
	f)	Ethical issues	:
	g)	Issues related to Intellectual Property Rights (IPR)	:
14.		answer to any section of question is yes, are the investigators/ proposers	:
	awa	are of the relevant regulations and have	
	the	ey agreed to abide by them?	
15.		Il the research be conducted in : cordance not only with the country's	
	ow	n ethical and environmental standards,	
	but	with international standards as well?	
			Signature with date of the Principal Investigator
		Signatur	e with date and seal of Head of Department/ Institute

PROJECT SUMMARY

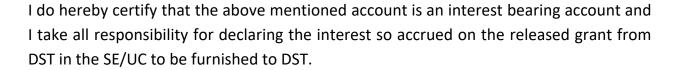
1.	Project little:	
2.	Total cost of the project (Indian side) (in Rs.):	
3.	Duratio	on of the Project.
4.	Project	t Investigators (PIs) and Co-Investigators:
	4.1	Indian PIs
	4.2	Foreign
5.	Other	Project participants:
	5.3	Indian
	5.2	Foreign
6.	Implen	nenting Agencies / Institutions:
	6.1	Indian
	6.2	Foreign
7.	Sponso	oring Agency / Department / Ministry
	7.3	Indian

	7.2	Foreign		
8.	Admir	nistrative Ministry in Government of India:		
9.		ne Project been cleared by Secretary of the Administrative coring Ministry/Department from security/sensitivity angl		Yes/No
10.		wer to (9) above is 'No', then does the Administrative/ oring Ministry/Department recommend the Project to		
	be cor	nsidered by High Level Committee of Secretaries?	Yes/No	
			Signature of the o	oncerned Officer
			in the Administr	ative/Sponsoring

Ministry/Department

International Cooperation Division Department of Science & Technology Bank details for transfer of DST fund electronically

Agency name as registered	
with DST CPMS	
Agency Code as per CPMS	
Account Holders name/	
designation	
Name of Bank and address	
Caving Dank Assaunt Number	
Saving Bank Account Number	
IFSC Code	
irsc code	
MICR Code	
WHICH COUR	



Signature of Finance Authority with seal

(Please note that Agency name and Account holders name should be identical.)