- c. Statement of research achievements, if any, on which any award has already been received by the applicant. Please also upload brief citation(s) on the research work(s) for which the applicant has already received the award(s) (not to exceed 2000 words
  - (i) Concept and Novel ideas in HIV Research Award (CNIHR, National Institute of Health, USA)

#### Measuring glutathione redox potential of HIV-infected macrophages:

HIV-1 also persists inside the host's immune cells such as lymphocytes and macrophages while infecting millions around the world. HIV-1 causes AIDS (acquired immunodeficiency syndrome), a disease which compromises the patient's immune system, and one that still has no complete cure. Our group is interested in molecular dissection of redox-based event associated with persistence of HIV-1 in macrophages and lymphocytes. To understand these mechanisms, our group has engineered an HIV-GFP biosensor whose functioning is very similar to the *Mtb*-specific redox biosensor; the difference being that instead of measuring mycothiol levels (as is in the case of *Mtb*), this biosensor measures the levels of a different antioxidant – glutathione – in HIV infected macrophages. Using this biosensor, we report that only limited oxidative stress is capable of reactivating HIV from its silent form. Also, the study reveals, that active HIV replication is associated with a massive increase in oxidative stress, whereas latency is mediated by high anti-oxidative potential. (See annexure 1 for the citation).

#### (ii) Innovative Young Biotechnologist Award (DBT India)

**Developing genetically encoded redox sensors for** *Mycobacterium tuberculosis*: Tuberculosis field lacks some of the most basic tools to image bacterial physiology during infection. We have recently filled this technological gap by developing a novel biosensor (Mrx1-roGFP2) to image the physiology of *Mtb* inside the human host during infection and upon chemotherapy. We exploited this bioprobe and identified the role of *Mtb*-specific redox-based mechanisms in alleviating toxicity caused by host-imposed antimicrobial stresses and anti-TB drugs. See annexure 1 for the citation).

#### (iii) Merck Millipore Innovation Award

Express path analysis identifies a tyrosine kinase Src-centric network regulating divergent host responses to Mycobacterium tuberculosis infection: Global gene expression profiling has emerged as a major tool in understanding complex response patterns of biological systems to perturbations. However, a lack of unbiased analytical approaches has restricted the utility of complex microarray data to gain novel system level insights. Here we report a strategy, express path analysis (EPA), that helps to establish various pathways differentially recruited to achieve specific cellular responses under contrasting environmental conditions in an unbiased manner. We propose that EPA could prove extremely useful in understanding complex cellular responses for a variety of perturbations, including pathogenic infections. (See annexure 1 for the citation).

## (iv) 10<sup>th</sup> NASI-Scopus Award in the Area of Biotechnology and (v) S. Ramachandran Award-National Bioscience award for Career Development.

#### Mycobacterial persistence and drug tolerance

A central question in tuberculosis (TB) research is to identify the mechanisms that allow the organism to persist for long periods of time in humans. In this context, my laboratory is focused on the metabolic events associated with maintaining redox homeostasis in *Mtb* during infection. Redox signals such as

nitric oxide (NO), reactive oxygen species (ROS), acidic pH, carbon-limitation, and oxygen (O2) have been proposed to be main signals that induce a change in the metabolism of *Mtb* to facilitate its entry into a drug-tolerant persistent state. However, the precise contribution of these signals in manipulating *Mtb's* internal redox state and identity of a sensor(s) that precisely monitors pathogen's growth, metabolism and cell division in response to O2 and NO remains unknown. Our group is actively characterizing the role of two Fe-S cluster dependent redox sensors (WhiB3 and WhiB4) in *Mtb*. Additionally, we are examining the role of hydrogen sulfide (H<sub>2</sub>S) gas produced by *Mtb* in coordinating persistence, redox homeostasis, and antibiotic resistance. Using multiple analytical techniques such as microarrays, network biology, redox biosensor, macrophage infection and animal models, we investigated the role of WhiB3 and WhiB4 in facilitating pathogen's persistence in response to pH and antibiotic stress, respectively. (See annexure 1 for the citation).

#### (vi) CDRI Awards-2019 for Excellence in Drug Research

#### Developing Drugs to Target Redox Metabolism of Mycobacterium tuberculosis

Tuberculosis (TB) remains the most devastating cause of human deaths despite the availability of a vaccine (BCG) and multiple drugs combination therapy. Although chemotherapy can be highly successful, drugs must be administered for 6-12 months to provide an effective cure. It is believed that long term multiple drug therapy is required to eliminate a small sub-population of TB-causing bacteria (*Mycobacterium tuberculosis* [*Mtb*]), which is refractory to current anti-TB drugs. Such noncompliant bacteria are referred to as "persisters" and the phenomenon is known as "persistence". Persisters are genetically similar to their drug susceptible counterparts but are able to survive the lethal effects of antibiotics, indicating that they are physiologically/phenotypically different. Despite their clinical importance, research in this field is hampered due to the lack of innovative technologies to capture phenotypic and/or physiological diversity within *Mtb* population during infection. This represents a major technological gap in our understanding of TB disease and drug-resistance. Therefore, understanding the physiological state of drug-tolerant persisters is one of the foremost challenges in shortening current drug regimens, and developing new drugs or diagnostics against TB. We filled this major gap by discovering several new redox-oriented candidates targeting *Mtb*. (See annexure 1 for the citation).

#### (vii) Shanti Swarup Bhatnagar Prize- Biological Sciences, 2021

The Shanti Swarup Bhatnagar Prize for the year 2021 in Biological Sciences has been awarded for outstanding contributions to our fundamental understanding of host-pathogen interactions underlying infections caused by human pathogens, *Mycobacterium tuberculosis* (*Mtb*), and human immunodeficiency virus (HIV). Our work led to an understanding of the intricate connection between redox mechanisms conferring drug resistance and their long-range physiological impact on host and pathogen.







# CONTRACT OF THE PARTY OF THE PA

## Government of India Ministry of Science & Technology Department of Biotechnology

Presents

Innovative Young Biotechnologist Award (IYBA) 2010

To

DR. AMIT SINGH

ICGEB, NEW DELHI

in recognition of his ourseasting contributions in the field of Biotechnology. Through this award, Dr. Amit shall pairsue an innovative project on Measuring introductival redux potential of Mycobacterium tuberculosis by generically encoded redox sensitive fluorescent indicators.

K Tomper

K, VijayRaghavan
Secretary
Department of Biotechnology

S. JAIPAL REDDY

Minister for Science & Technology Goet, of India











## Creative and Novel Ideas in HIV Research

Amit Singh

has been awarded a retearch grant for the outstanding research proposal.

Measuring Intracellular Redox Potential of HIV-1 Infected Macrophages

at the XVIII International AIDS Conference in Venna, Austria - July 19-23, 2010.













## **NASI-SCOPUS YOUNG** SCIENTIST AWARDS 2016

Presented to Dr. Amit Singh

Indian Institute of Science, Bangalore

for his meritorious contributions in the field of

Biological Sciences

15th September 2016

Powered by:

Scopus

ALLEN N. STOTE

Prof. Akhilesh K. Tyagi

President - National Academy

of Sciences, India.

Mr. Youngeuk Chi-

Chairman.

Elizabete



# Certificate of Merit 2nd Prize

First runner-op of India Innovation Awards 2012 is the work on

Express path analysis identifies a Tyroxine Grase
Secreptific network requiating divergent host
responses to myroducterum tuberculosis infection

Ohiraj Kumar Ahmad F Karim Pallavi Chandra Aanchal Chopra Zaved Siddiqui Ashima Bhaskar Amit Singh

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#### **Private and Confidential**

Professor Umesh Varshney Department of Microbiology and Cell Biology Indian Institute of Science Bangalore - 560012 E-mail: grants@wellcomedbt.org
Tel: Hyd: +91 40 4018 9445

New Del: +91 011 4100 8403

Our Ref: IA/S/16/2/502700

16/02/2017

Dear Professor Varshney,

The Wellcome Trust/DBT India Alliance has agreed to award Dr Amit Singh a Senior Fellowship for 60 months for his study entitled, "Fe-S cluster biogenesis and regulation in Mycobacterium tuberculosis", under your sponsorship.

An award of up to ₹ 4,24,30,080.00 has been provided to the Indian Institute of Science, Bangalore (hereinafter referred to as 'Host Institution') for this purpose.

The grant has been given a start date of 01/03/2017 and is intended to provide support as follows:

#### **RING-FENCED FUNDS:**

	Total (₹)
Post 1 – SENIOR FELLOW	
Contribution towards Dr Singh's personal support	0.00
CONTRIBUTION TOWARDS INSTITUTIONAL OVERHEADS	38,57,280.00
Sub Total (A)	38,57,280.00

#### **TRANSFERABLE FUNDS:**

	Total (₹)
STAFF SALARIES	
Post 2 (Post-Doc)	29,32,800.00
Post 3 (Post-Doc)	29,32,800.00
Post 4 (Senior Research Fellow)	25,63,200.00
FLEXIBLE FUNDING ALLOWANCE	10,00,000.00
TRAVEL TO MEETINGS	
Dr Singh	10,00,000.00
Post 2	5,00,000.00
Post 3	5,00,000.00

Regd. Office: Department of Biotechnology, C.G.O. Complex, Block II, Lodhi Road, New Delhi, India 110 003 Admn. Office: Hyderabad: Plot No. 19, H.No. 8-2-684/3/K/19, 1st Floor, Kaushik Society, Road No.12, Banjara Hills, Hyderabad, India- 500 034 T: +91 040 4018 9445/6/7 F +91 040 4018 9449

Delhi: Flat No 1110, DLF Tower B, Jasola District Centre, Behind Apollo Hospital, New Delhi – 110025 T: 011-41008403

www.wellcomedbt.org

The Wellcome Trust/DBT India Alliance is a charitable trust registered in India.

MATERIALS & CONSUMABLES	75,00,000.00
EQUIPMENT	
The Seahorse XF 24 analyzer	1,21,50,000.00
CO2 incubator	10,00,000.00
-80 deep freezers (2 numbers)	15,00,000.00
Fluorescence Microscope	22,50,000.00
ACCESS CHARGES	12,50,000.00
ANIMALS & FOOD	
Balb/c	
Purchase: 600 mice @ ₹ 50 each	30,000.00
Maintenance: 600 mice for 24 weeks @ ₹ 10 each/week	1,44,000.00
Animal Experimental Procedures	1,20,000.00
Animal Associated Costs	1,00,000.00
MISCELLANEOUS	11,00,000.00
Sub Total (B)	3,85,72,800.00
GRAND TOTAL (A+B)	₹ 4,24,30,080.00

The following details along with the enclosed **Award Conditions**, outline the framework in which the Fellowship will operate.

- 1 Terms
- 2 Costs
  - 2.1 Ring-Fenced Funds
  - 2.2 Transferable Funds
- 3 Acceptance
- 4 Payment
- 5 Reports
  - 5.1 Annual
  - 5.2 End-of-Fellowship
- 6 Fellow's Title
- 7 Publications from Fellowship
- 8 Mid-term Review Process
- 9 Mentorship Requirement
- 10 IP arising from the Fellowship
- 11 Award Extension
- 12 Other Fellowships and Grants
- 13 Variation and Termination of Fellowship
- 14 Statement on Equality and Diversity
- 15 Managing reputational risks
- 16 Fellows' Meetings
- 17 Application Reviews



#### Private and Confidential

Prof Virander Singh Chauhan
International Centre for Genetic Engineering &
Biotechnology
Aruna Asaf Ali Marg
NEW DELHI- 110067
INDIA

E-mail: megha.saraswat@wellcomedbt.org

Tel: +91 040 4018 9445 ext -107 Fax: +91 040 4018 9449

Our Ref: 500034/Z/09/Z

31 December 2009

#### Dear Professor Chauhan

The Wellcome Trust/DBT India Alliance has agreed to award **Dr Amit Singh** an Intermediate Fellowship for 60 months for his study entitled, "Control of *Mycobacterium tuberculosis* dormancy and reactivation by the oxygen sensor WhiB4" under your sponsorship.

## An award of up to INR 3,75,53,748 has been provided to the International Centre of Genetic Engineering & Biotechnology for this purpose.

The grant has been given a notional start date of 01/04/10 and is intended to provide support as attached.

Ring-fenced funds may be used only for the purpose(s) stated. The budgets for transferable funds are indicative only and movement of funds between transferable budget headings is allowed, without prior permission from the India Alliance.

The ring-fenced funds provided are for Dr Amit Singh's personal support at INR 11,52,000 *per annum*. It includes a basic salary of INR 6,00,000 *per annum*, allowances amounting to 60% of this salary and an additional Fellowship enhancement of 20%.

The Alliance expects the Host Institution to ensure that the personal support provided for the Fellow and specified in this letter is paid to the Fellow accordingly. Please note that this support will not be inflated on an annual basis; however the Alliance reserves the right periodically to review and revise its provision for the Fellow's personal support.

The grant is cash-limited; supplementary funding will only be provided in specific circumstances (see Information to Note).

Dr Amit Singh's appointment should be entitled "Wellcome Trust/DBT India Alliance Intermediate Fellow" and this title should be used at all times. We would like to see a draft of the Contract of Service/appointment letter for Dr Singh before this is formally issued.

It is a condition of the award that Alliance-funded Intermediate Fellows are granted the status and benefits in line with others of equivalent positions, in the department in which they are employed. The Fellow's non-research activities such as teaching, clinical work, advisory committees and external consultancies should not occupy, on average, more than eight hours weekly.

Dr Singh should contact me before applying to other funding bodies for additional support.

The Alliance's Grant Conditions (COND/07/09), referred to in the attached 'Information to Note', detail the conditions under which the grant is awarded.

Under the award, any research involving animals undertaken by the Organisation, collaborators or service providers, must comply with both the Alliance's policy on the use of animals in research and the principles set out in the document "Responsibility in the use of animals in bioscience research". It is the responsibility of the host institution to ensure that all Alliance-funded research which involves the use of animals complies at all times with the relevant laws and regulations of the country where work funded by this award takes place.

We would remind you that with regard to clause 6 (iii) of the Grant Conditions, all research papers that have been accepted for publication in a peer-reviewed journal, and are supported in whole or in part by Alliance funding, must be made available in PubMed Central and UK PMC as soon as possible, and in any event within six months of publication, in line with the Alliance's Open Access policy (www.wellcomedbt.org/About us/Policy/Open Access).

If any Intellectual Property arises out of the Alliance-funded research, and there is intention to exploit this IP, please contact the Alliance to discuss proposed arrangements in more detail. Please note that the Alliance requires Fellows and their institutions to request consent to exploit IP arising from Alliance-funded work prior to any exploitation activity taking place. A consent form is available for this purpose.

It is a condition that the Head of your Host Institution will administer the grant in accordance with the purposes for which it has been awarded. I should be grateful if your Institution would confirm, in writing, the acceptance of this grant on the conditions detailed in this letter and the notes. A Grant Start Certificate has been attached for this purpose. The grant cannot be activated until this confirmation has been received. The Alliance will not accept liability for any expenses incurred on the grant until a signed Grant Start Certificate has been returned.

When accepting this Award of Grant, the Organisation recognises that the undertakings given by the Institution and others at the time of signing the Application Form are "conditions precedent" and the Organisation will ensure that they, their agents, servants, employees and students will continue to abide by the undertakings given throughout the lifetime of the grant.

Copies of this letter and the notes should be forwarded to your Finance Officer and any other relevant Offices/Departments at the institute.

If you would like to discuss any issues regarding the grant, please contact me at this office.

Yours sincerely

4

Dr Megha Saraswat Sharma Grants Adviser

Enc. Grant start certificate

#### **RING-FENCED FUNDS:**

David A INTERMEDIATE FELLOW	Total (INR)
Post 1- INTERMEDIATE FELLOW Dr Amit Singh's personal support	57,60,000
CONTRIBUTION TOWARDS INSTITUTIONAL OVERHEADS	34,13,977
Sub Total	91,73,977
TRANSFERABLE FUNDS:	
	Total
Post 2- POSTDOC RA Unnamed	12,00,000
FLEXIBLE FUNDING ALLOWANCE	8,26,595
TRAVEL TO MEETINGS	
Dr Amit Singh Post 2	7,50,000 5,00,000
MATERIALS & CONSUMABLES	60,00,000
EQUIPMENT See attached list	1,59,50,000
ANIMALS & FOOD Mice	
Purchase: C57BL/6J x 600 @ Rs.70 Maintenance: 50 weeks @ Rs. 30/mouse	42,000 9,00,000
Nos2tm1lau Purchase cost: 4 @ Rs. 4,794	19,176
Maintenance: For 400 mice for 30 weeks@ Rs. 30/mouse Guinea pigs (Hartley strain)	3,60,000
Purchase: 100 @ Rs. 70 Maintenance: 25 weeks @ Rs.210/Guinea pig	7,000 5,25,000
COLLABORATIVE TRAVEL	
University of Illinois at Urbana Champaign for post 1 University of Alabama at Birmingham for post 1	1,00,000 1,00,000
Albert Einstein College of Medicine, New York for post 1	1,00,000
SUBSISTENCE	
University of Illinois at Urbana Champaign for 2 months University of Alabama at Birmingham for 2 months	3,00,000 3,00,000
Albert Einstein College of Medicine, New York for 2 months	3,00,000
REMOVAL EXPENSES	1,00,000
Sub Total	2,83,79,771
GRAND TOTAL	INR 3,75,53,748



Amitabha Mukhopadhyay Convener

**2**: 09810887164

Kanury V. S. Rao Co-Convener 2: 09810627255 Sudhanshu Vrati Co-Convener 2: 09811007944

To,
Dr. Amit Singh,
Indian Institute of Science,
Bangalore.
Email:asingh@mcbl.iisc.ernet.in

12<sup>th</sup> Dec, 2017

Dear Dr. Singh,

It is a great pleasure to inform you that you have been elected as a member of Guha Research Conference in the General Body meeting of GRC 2017 held on 5<sup>th</sup> December, 2017 in Lakesong Resort, Kumarakom, Kerala. It is my privilege to welcome you as a member of GRC family.

You are possibly aware that GRC organized annual meeting to bring the community of active researcher in different areas of modern biology to provide intellectual stimulation through free and frank in depth discussion in a favorable environment, unconstrained by formalities and conventions. GRC will look forward for your active participation.

Please accept my warmest congratulation.

Best wishes,

Sincerely yours, Amitabha Mukhopadhyay,



.....

#### LIST OF SELECTED AWARDEES FOR NATIONAL BIOSCIENCE AWARD FOR CAREER DEVELOPMENT (2017 & 2018)

Sl. No.	Name of Awardees
1.	Dr. Manas Kumar Santra, National Centre for Cell Science (NCCS), Pune
2.	Dr. Dipyaman Ganguly, CSIR-Indian Institute of Chemical Biology (IICB), Kolkata
3.	Dr. Subhadeep Chatterjee, Centre for DNA Fingerprinting and Diagnostics (CDFD), Telangana
4.	Dr. Soumen Basak, National Institute of Immunology (NII), New Delhi
5.	Dr. Manoj Majee, National Institute of Plant Genome Research (NIPGR), New Delhi
6.	Dr. Arun Kumar Shukla, Indian Institute of Technology (IIT), Kanpur
7.	Dr. Amit Singh, Indian Institute of Science (IISc), Bengaluru
8.	Dr. Maddika Subha Reddy, Centre for DNA Fingerprinting and Diagnostics (CDFD), Telangana
9.	Dr. Beena Ramakrishnan Pillai, CSIR- Institute of Genomics and Integrative Biology (IGIB), New Delhi
10.	Dr. Ashwani Kumar, CSIR- Institute of Microbial Technology (IMTECH), Chandigarh
11.	Dr. Mohammad Zahid Ashraf, Jamia Millia Islamia, Delhi
12.	Dr. Ranjith Padinhateeri, Indian Institute of Technology (IIT), Bombay, Powai, Mumbai
13.	Dr. Rayala Suresh Kumar, Indian Institute of Technology (IIT), Madras, Chennai
14.	Dr.Prabhu B. Patil, CSIR-Institute of Microbial Technology (IMTECH), Chandigarh
15.	Dr. Pritam Deb, Tezpur University, Tezpur







17-02-2019

## CDRI AWARDS- 2019 for Excellence in Drug Research

### **Announcement**

The prestigious CDRI Awards 2019 for Excellence in Drug Research in **Life Sciences** category has been awarded jointly to **Dr. Amit Singh,** Associate Professor, IISc, Bengaluru & **Dr. Dipyaman Ganguly,** Senior scientist, CSIR-IICB, Kolkata.

In the **Chemical Sciences** category, the award has gone jointly to **Dr. Seergazhi Gopalan Srivatsan,** Associate Professor, IISER, Pune **& Dr. T Govind Raju,** Associate Professor, JNCASR, Bengaluru.

Our heartiest congratulations to both the awardees!

The Award Oration and Felicitation Ceremony will be held on 26 September 2019 during CSIR Foundation Day Celebrations.

Dr. Anand Kulkarni Senior Scientist Scientific Directorate



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Dr. Shekhur C. Mande

PRE-ENV. PRAW

Neovetary Department of Security & Security Research and District General 磁

निवृद्धन और प्रीक्षेत्रिको संयक्ता वैद्यानिक तथा औद्योगिक अनुसंधान परिषद वैद्यानिक और जीद्योगिक अनुसंधान विश्वन

Government of India

Ministry of Science and Technology

Connell of Scientific & Industrial Research

Department of Scientific & Industrial Research

DGHRDI558-31/Avardes(1) 26 September 2021

Dear Dr. Bingh.

I am happy to inform that you have been selected for the award of "Shanti Swanup Bhatnagar (SSR) Pripe" for the year 2021 in Biological Sciences.

Please accept my heartiest Congratulations I

If is a rare distinction conformed upon accentrate, who have demonstrated exceptional potential in Science and Technology. The award derives its value from its rich legacy of those who wen this award before and added enormous value to indian Science. I am certain that this assognition would encourage you and your group to scale new heights in the years to come. Now, the Nation will look upon you with higher expectation.

The SSB Prize comprising a citation, a plaque and cash prize of Rs. 5000003. (Five labble repose) would be presented to you at a formal function, generally presided over by the Hon'ole Prime Minister of India, who is the President, CBR. In addition, CBR will prant a special honorarium of Rs 16003- p.m. with effect from 1<sup>rd</sup> January 2022. I enclose a draft citation to be read at the Award Ceremony. Kindly verify the citation for factual accuracy. In case there is any inaccuracy in It, please intimate the same immediately.

On behalf of CSIR and on my own tienest, I extend to you very test wishes for a gioricus future.

With worm regards.

Yours alnoanity,

(Shekitar C Munde)

Or, Amit Singh
Department of Microbiology and Cell Histogy
Indian Institute of Science
Sengehmu 550 012
Email: psynch@lesc.az.ln

#### Citation

The Shanti Swarap Bhatmagar Petas for the year 2021 to Biological Sciences has been awarded to Dy Amit Shigh of the Indian Institute of Science, Bengalura. De Singh loss reads naturaling proteches on one foodpressed orderatanding of lipse pathogon interaction in Mycobacterism toborcalosis and HIV, the causative viral agent of lossess sequent immencialisticines synchrone (ARDS). His work had to at understanding of the intricate connection between geneta manufactors conferring drug resistance and their long energy physiological impact.



## / /HUMAN RESOURCES SECTION / /INDIAN INSTITUTE OF SCIENCE

/ /BANGALORE – 560012

/ /TELEPHONE : 2293 2231 / 2232 / 2941

- /E-mail/ : office.hr@iisc.ac.in

R(HR)R&S Chair/2021

5 November 2021

Prof. Amit Singh Microbiology & Cell Biology Through Chair, MCB

Dear Sir,

I am happy to inform you that the Council of the Institute, while recognizing your academic achievement has decided to invite you to accept the *Revati and Satya Nadham Atluri Chair*. Selection for appointment to this distinguished Chair, from among the nominations received, was carried out by a duly constituted committee.

The benefits of this Chair includes a top-up of Rs. 50,000/- (rupees fifty thousand only) to your monthly salary, and an annual research grant of Rs.6.00 lakhs for a period of **three** years with effect from 01.11.2021.

The terms of appointment against this chair also require the submission of a brief annual report to the Director on the research activities conducted with the financial support provided.

I would appreciate if you could kindly convey your acceptance of this invitation.

Yours faithfully,

345

REGISTRAR

Copy to: The Chair, MCB

**Financial Controller** 

Files: SR /PV/DIGITS

#### The National Academy of Sciences, India

#### Fellows elected in the year 2021

## SI. No. Names and addresses of the Fellows

- 1. **Agrawal, Anurag** (*b* 1972), PhD, FNA, FASc, Director, CSIR-Institute of Genomics and Integrative Biology, Mall Road, New Delhi-110 007
- 2. **Ateeq, Bushra** (*b* 1976), PhD, Associate Professor, Department of Biological Sciences & Bioengineering, The Mehta Family Centre for Engineering in Medicine, Indian Institute of Technology Kanpur, Kanpur, 208016
- 3. **Balani, Kantesh** (*b* 1978), PhD, Professor, Department of Material Science & Engineering, Indian Institute of Technology Kanpur, Kanpur-208016
- 4. **Basak, Durga** (*b* 1966), PhD, Senior Professor, School of Physical Sciences, Indian Association for the Cultivation of Science, Jadavpur, Kolkata-700032
- 5. **Bhat, Navakanta** (*b* 1968), PhD, FNAE, Dean, Division of Interdisciplinary Sciences, Professor, Centre for Nano Science & Engineering, Indian Institute of Science, Bangalore-560012
- 6. **Bhattacharyya, Sriman Kumar** (*b* 1957), PhD, FNAE, Vice-Chancellor, Shiv Nadar University Chennai, Kalavakkam, Tamil Nadu 603 110
- 7. **Bhattacharyya, Tirthankar** (*b* 1968), PhD, FASc, Professor, Department of Mathematics, Indian Institute of Science, Bangalore-560012
- 8. **Chakrabarti, Oishee** (*b* 1975), PhD, Associate Professor, Biophysics & Structural Genomics Division, Saha Institute of Nuclear Physics, Sector I, Block AF, Bidhannagar, Kolkata 700064
- 9. **Chauhan, Manmohan Singh** (b 1960), PhD, FNAAS, Director, ICAR-National Dairy Research Institute, Karnal, Haryana 132001
- 10. **Chhuneja, Parveen** (*b* 1966), PhD, Director, School of Agricultural Biotechnology, Punjab Agricultural University, Ludhiana-141 004, Punjab
- 11. **Chilla, Malla Reddy** (*b* 1975), PhD, Professor, Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur 741246
- 12. **Das Sarma, Jaysri** (*b* 1965), PhD, Professor, Department of Biological Sciences, IISER Kolkata, Mohanpur, Nadia, West Bengal 741246
- 13. **Dethe, Dattaraya Hanumant** (*b* 1976), PhD, Professor, Department of Chemistry, Indian Institute of Technology, Kanpur, Kanpur-208016
- 14. **Giri, Jitender** (*b* 1980), PhD, Scientist IV, Lab No. 110, National Institute of Plant Genome Research, Aruna Asaf Ali Road, New Delhi 110067
- 15. **Gupta, Meetu** (*b* 1970), PhD, Associate Professor, Department of Biotechnology, Jamia Millia Islamia, Maulana Mohammad Ali Jauhar Marg, Jamia Nagar, New Delhi-110025
- 16. **Gupta, Ritu** (*b* 1972), MBBS, MD, Professor & Officer-in-Charge, Oncology Laboratory Unit, All India Institute of Medical Sciences, New Delhi-110029
- 17. **Gupta, Virendra Kumar** (*b* 1960), PhD, Head R&D Polymer & Senior Vice President Reliance Research & Development Centre, TC30B, First Floor, Cabin 07, Reliance Industries Limited, Reliance Corporate Park, Ghansoli, Navi Mumbai 400701
- 18. **Joshi, Suhas Sitaram** (*b* 1968), PhD, FNAE, Rahul Bajaj Chair Professor & Dean, Alumni and Corporate Relations, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai 400 076
- 19. **Kaur, Gurucharan** (b 1958), PhD, Honorary Professor, Department of Biotechnology, Guru Nanak Dev University, Amritsar-143005
- 20. **Kumar, Dhiraj** (*b* 1978), PhD, Group Leader, Cellular Immunology Group, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi-110067
- 21. **Kumar, Prakash** (*b* 1972), PhD, Senior Principal Scientist, CSIR-National Geophysical Research Institute, Gas Hydrate Building, Uppal Road, Hyderabad -500007
- 22. **Kumar, Rakesh** (*b* 1965), PhD, FAMS, Professor & Head, Diagnostic Nuclear Medicine Division, Department of Nuclear Medicine, All India Institute of Medical Sciences, New Delhi-110029
- 23. **Mahalakshmi, Radhakrishnan** (*b* 1980), PhD, Associate Professor, Indian Institute of Science Education and Research, Bhopal, Bhopal Bypass Road, Bhauri, Bhopal 462066
- 24. **Maulik, Ujjwal** (*b* 1965), PhD, FNAE, Professor, Department of Computer Science and Engineering, Jadavpur University, 188, Raja S.C. Mallick Road, Kolkata 700032
- 25. **Mishra, Manoranjan** (*b* 1975), PhD, Associate Professor, Department of Mathematics, Indian Institute of Technology, Ropar, Ropar-140001, Rupnagar
- 26. **Mishra, Vimal** (*b* 1979), PhD, Associate Professor, Earth Sciences, Block 6-330, IIT Gandhinagar, Palaj, Gandhinagar, Gujarat, 382355

- 27. **Mohanty, Subhendra** (*b* 1960), PhD, Senior Professor, Theory Division, Physical Research Laboratory, Ahmedabad, India;
- 28. **Mukerji**, **Mitali** (*b* 1967), PhD, Professor and Head, Department of Bioscience & Bioengineering Faculty, School of Artificial Intelligence and Data Science (AIDE), Indian Institute of Technology Jodhpur, NH 62, Karwar, Rajasthan 342037
- 29. **Mukherjee, Saptarishi** (*b* 1977), PhD, Professor, Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal Bypass Road, Bhauri, Bhopal 462 066
- 30. **Nagegowda, Dinesh Addihalli** (*b* 1974), PhD, Senior Principal Scientist, Molecular Plant Biology and Biotechnology Lab, CSIR-CIMAP Research Centre, Allalasandra, GKVK Post, Bengaluru 560065
- 31. **Nallamala, Manjula Reddy** (*b* 1965), PhD, Chief Scientist, CSIR-Centre for Čellular & Molecular Biology, Uppal Road, Habsiguda, Hyderabad 500007
- 32. **Purushothaman, Abhilash Chirakkuzhyil** (*b* 1978), PhD, FNAAS, Assistant Professor, Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi 221005
- 33. **Ramakrishna, Subramaniam Anantha** (*b* 1972), PhD, Director, CSIR-Central Scientific Instruments Organization, Sector 30C, Chandigarh 170030
- 34. Rawat, Diwan S. (b 1970), PhD, Professor, Department of Chemistry, University of Delhi, Delhi-110007
- 35. **Saha, Swati** (*b* 1967), PhD, Professor, Department of Microbiology, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021
- 36. **Sarkar, Ananda Kumar** (*b* 1973), PhD, Professor, School of Life Sciences, Jawaharlal Nehru University, New Delhi 110067
- 37. **Saxena, Nitin** (*b* 1981), PhD, FASc, Professor (N Rama Rao Chair), Indian Institute of Technology, Kanpur, Kanpur-208016
- 38. **Shukla, Arun Kumar** (*b* 1981), PhD, Joy Gill Chair Professor, Department of Biological Sciences and Bioengineering, Indian Institute of Technology, Kanpur 208016
- 39. **Singh, Amit** (*b* 1976), PhD, Associate Professor, Department of Microbiology of Cell Biology, Centre for Infectious Disease Research, Indian Institute of Science, Malleshwaram, Bengaluru 560012
- 40. **Singh, Arun Deo** (*b* 1961), PhD, Professor, Centre of Advanced Study in Geology, Institute of Science, Banaras Hindu University, Varanasi 221005
- 41. **Singh, Ashok Kumar** (b 1962), PhD, FNA, FNAAS, Director, ICAR-Indian Agricultural Research Institute, New Delhi 110012
- 42. **Singh, Jayant Kumar** (*b* 1975), PhD, Dean of Resources & Alumni, Poonam & Prabhu Goel Chair Professor, Department Of Chemical Engineering, IIT, Kanpur- 208016
- 43. **Singh, Mohar** (*b* 1971), PhD, Principal Scientist, ICAR-National Bureau of Plant Genetic Resources, Regional Station, Shimla
- 44. **Soma, Venugopal Rao** (*b* 1972), PhD, Professor, ACRHEM, South Campus, University of Hyderabad, Prof. C.R. Rao Road, Hyderabad 500046
- 45. **Srivastava, Achal Kumar** (*b* 1966), MBBS, MD, FRCP (London), Professor, Department of Neurology, All India Institute of Medical Sciences, New Delhi-110029
- 46. **Sudarsan, Vasanthakumaran** (*b* 1971), PhD, Scientific Officer, Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400085
- 47. Sundara, Ramaprabhu (b 1955), PhD, Professor, Indian Institute of Technology Madras, Chennai
- 48. **Sunoj, Raghavan B.** (b 1974), PhD, FASc, FRSC(London), Professor, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076
- 49. **Vaidya, Vidita Ashok** (b 1970), PhD, Professor, Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Navy Nagar, Colaba, Mumbai 400005
- 50. **Verma, Mahendra Kumar** (*b* 1966), PhD, FNA, FASc, Professor, Department of Physics, IIT Kanpur, Kanpur 208016

#### Science & Society

- 1. **Bhuyan, Mantu** (*b* 1970), PhD, Principal Scientist, Agrotechnoogy & Rural Development Division, CSIR-North East Institute of Science & Technology, Jorhat- 785006
- Saxena, Manoj (b 1977), PhD, Professor, Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi, New Delhi, 110078

## List of candidates selected for TATA Innovation Fellowship for the call announced in 2021-22:

SI. No	Name
1.	Prof. R. Ravishankar CSIR Central Drug Research Institute, Lucknow
2.	Dr. Bichitra Kumar Biswal National Institute of Immunology, New Delhi
3.	Prof. Gobardhan Das, Special Centre for Molecular Medicine, New Delhi
4.	Prof. Dhirendra Sushilendra Katti Indian Institute of Technology Kanpur, Uttar Pradesh
5.	Prof. Asad U Khan Aligarh Muslim University, Uttar Pradesh
6.	Prof. Chiranjib Chakravartty, Adamas University, West Bengal
7.	Prof. Amit Singh Indian Institute of Science, Bengaluru
8.	Dr. Amit Dutt ACTREC, Tata Memorial Centre, Navi Mumbai
9.	Dr Phalguni Anand Alladi National Institute of Mental Health and Neurosciences Bangalore
10.	Dr. Hilal Ahmad Punoo University of Kashmir Hazratbal J&K



क्षेत्रको रोज्यातक्ष्म वेद्यानः माण्यं सारायनं अनुभागः **HUMAN RESOURCES SECTION** प्रशामितक वेद्यानं रोज्युन्तरसर्वित्र विक्षानं संग्रहनं **(MDIAN INSTITUTE OF SCIENCE** 

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ADARTISE Research Awards/2024-626

F.April 2024

#### The Financial Controller w/c:

The following have been owwrood the 'His Research Awards 2024':

- 1. Prof. Amit Singh, MCB
- 2. Prof. Arayind Penmatra, MBU
- 3. Prof. Chardro U. IAP
- 4. Prof. Kauck Majumdar, ECE
- 5. Dr. Debasin Din, IPC
- 6. Dr. Rajouv Kumar Jain, Physics.

The award carries an unestricted research grant of Rs. 3 lakts to be used between 3 April 2024 - 31 March 2025.

Assistant Registrar

CC: All Awardoes and the respective Chairs Convener, Deans of Divisions Jaset Registrar (F&A)