



भारतीय आयुर्विज्ञान अनुसंधान परिषद

INDIAN COUNCIL OF MEDICAL RESEARCH

स्वास्थ्य अनुसंधान विभाग (स्वास्थ्य एवं परिवार कल्याण मंत्रालय)

DEPARTMENT OF HEALTH RESEARCH (MINISTRY OF HEALTH & FAMILY WELFARE)

वी. रामलिंगस्वामी भवन, अन्सारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली-110 029

V.RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX-4911, NEW DELHI-110029

No. 16/5/2018-Admn.-II

Dated : 6.7.2018

To

The Directors/Directors-in-Charge of
Permanent Institutes/Centres of the Council

Subject : Invitation of nominations for Sun Pharma Research Awards and Sun Pharma
Science Scholar Awards for the year 2018.

Sir/Madam,

Please find enclosed herewith a copy of Notice dated 26th June, 2018 received from Sun Pharma Science Foundation, Gurgaon, Haryana on the subject mentioned above. The nomination should be submitted online at <http://sunpharmasciencefoundation.net/SSAN/> (open in google chrome). The last of online submission of nomination is August 30, 2018.

Yours faithfully,

(Bharat Bhushan)
Sr. Administrative Officer
for Director General

Encl : As above

Copy to:-

- 1 PS to DG/PS to Addl. DG/Sr. DDG (A)/Sr. FA
- 2 All Divisional Heads
- 3 Asstt. Director-General (Admn.) (AX)/(RR)
- 4 Notice Board
- 5 IRSM Division- with the request to place above circular on ICMR website.



SUN PHARMA SCIENCE FOUNDATION

(Registered under the Societies Registration Act XXI of 1860)

Sarhau, Sector-18, Gurgaon-122015 (Haryana), INDIA. Phone : (91-124) 2341477 (D); 4194342; 4194400; 4194200
E-mail : sunpharma.sciencefoundation@sunpharma.com

June 26, 2018

DG, ICMR OFFICE
DIARY NO. 542702
DATE: 4/7/2018

NOTICE

We are pleased to inform you that Sun Pharma Science Foundation invites Nominations for **Sun Pharma Research Awards and Sun Pharma Science Scholar Awards for the year 2018.**

Sun Pharma Research Awards are for excellence in original research work in the fields of Medical and Pharmaceutical Sciences by Indian scientists, working in India and abroad. **The nominations for Sun Pharma Research Awards-2018 should be submitted online.** The website will open to submit nominations from **July 1, 2018 to August 30, 2018.** *A hard copy of the uploaded nomination with all attachments, should be submitted to the office of the Foundation to reach by September 10, 2018.* **The last date of online submission of nomination is August 30, 2018.** Please follow the below link to submit the nominations <http://www.sunpharmasciencefoundation.net/spsfn/> (open in google chrome).

Sun Pharma Science Scholar Awards are meant to support the brilliant and upcoming young new generation of scientists and researchers of India below the age of 30, with an aim to provide further impetus to research activity in the country and to stimulate their interest in research careers in the fields of Medical and Pharmaceutical Sciences. **Applicants are requested to submit their nominations online.** The website will open to submit nominations from **July 1, 2018 to August 30, 2018.** *A hard copy of the uploaded nomination with all attachments, should be submitted to the office of the Foundation to reach by September 10, 2018.* **The last date of online submission of nomination is August 10, 2018.** Please follow the below link to submit the nominations <http://sunpharmasciencefoundation.net/SSAN/> (open in google chrome).

We are enclosing herewith two circulars which contain detailed nomination procedures for **Sun Pharma Research Awards-2018** and **Sun Pharma Science Scholar Awards-2018.** Request you to kindly encourage and nominate the eligible candidates for both the awards and help us to circulate the information in your institute/department. The detailed nomination procedures are also available at; www.sunpharmasciencefoundation.net

Thanking you,

For Sun Pharma Science Foundation
e-mail : sunpharma.sciencefoundation@sunpharma.com

(Authorized Signatory)

AO (AdminIT)

Circulars
to all staff, CMA

21/07

Grand
4/7/18

Dy No. 29
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4/7/18

RESEARCH FOR LIFE



SUN PHARMA
RESEARCH
AWARDS
2018

INVITATION FOR NOMINATIONS

RESEARCH FOR LIFE



SUN PHARMA
SCIENCE FOUNDATION



INVITATION FOR
NOMINATIONS

We invite Heads of Research Institutions, Universities, Medical and Pharmaceutical Colleges, to send in their nominations for the **Sun Pharma Research Awards 2018**. The Awards are for excellence in original research work in Medical and Pharmaceutical Sciences by Indian scientists working in India and abroad. Non-Resident Indian Scientists are also eligible for these Awards.

The 2018 Awards

There are three Awards. Each Award will carry a Trophy, Citation and a Cash Prize of Rupees Two Lakh Fifty Thousand (Rs.250,000).

MEDICAL SCIENCES : Two Awards.

- *One each for Basic Research and Clinical Research.*

PHARMACEUTICAL SCIENCES : One Award.

How to Apply

You are requested to submit your nominations through online at www.sunpharmasciencefoundation.net for your original research work. The website will open to submit nominations from **July 1, 2018 to August 30, 2018**.

The following informations should be uploaded:

- ◆ Complete bio-data of the applicant
- ◆ List of 10 best papers of the applicant highlighting the important contributions in them briefly
- ◆ Awards already received
- ◆ Signed details of the excellence in research work for which the nomination is being sent (approximately 10 pages)
- ◆ Two specific publications/ research papers relevant to the research work
- ◆ Statement that the research work under reference has not been given any award in the past
- ◆ Signed Justification for sponsoring the nomination, and
- ◆ Signed Citation on outstanding research work by the nominator.

A print copy of the complete set of uploaded nomination should be submitted to the office of the Foundation to reach by September 10, 2018.

Scope of the Awards

MEDICAL SCIENCES

a. Basic Research

Basic Research would cover :

- ◆ Fundamental advances in any discipline of physical or bio-medical sciences that enhance the understanding and scope of Medical Sciences.

b. Clinical Research

Clinical Research would cover :

- ◆ Contributions for better understanding of the functioning of human body system or aetiopathogenesis, pathophysiology or molecular basis of disease processes, thereby enhancing the understanding of medical sciences and lead to improvement in health care.
- ◆ Epidemiological studies on (a) prevalence of diseases, (b) impact of interventions on disease patterns in the community.
- ◆ Application of advances in Laboratory Methodology to enhance patient care.



**SUN PHARMA
RESEARCH
AWARDS
2018**

HELP US TO RECOGNISE YOUR OUTSTANDING RESEARCH SCIENTISTS

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- ◆ Signed Citation on outstanding research work by the nominator.

A print copy of the uploaded nomination, should be submitted to the office of the Foundation to reach by September 10, 2018.

For further information, if any, please contact :
OFFICE OF SUN PHARMA SCIENCE FOUNDATION
Sarhaul, Sector-18, Gurgaon – 122015, Haryana (India)
Tel. (91-124) 2341477 (D) ; 4194400; 4194200;
e-mail : sunpharma.sciencefoundation@sunpharma.com
website : www.sunpharmasciencefoundation.net



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2018

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- ◆ Statement that the research work under reference has not been given any award in the past
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INVITATION FOR
NOMINATIONS

- ◆ Advances in diagnosis and treatment of diseases.
- ◆ Advances in knowledge by clinical evaluation of new and existing drugs, vaccines and diagnostic tests.
- ◆ Epidemiological studies on the secondary prevention of diseases by therapeutic interventions.

The number of awards in each category could vary.

PHARMACEUTICAL SCIENCES

Pharmaceutical Sciences would cover :-

(i) New Drug Discovery and Development

- Design and development of new drugs
- Identification of new drug targets
- drug-receptor interaction and characterization of receptors
- Novel drug delivery systems
- Study of mode of action of drugs

(ii) Process Development and Applied Research

- Outstanding achievements in molecular biology, biotechnology and fermentation.

This would also include Applied Research in Pharmaceutical Science covering innovations in the applied field with distinctive features in :

- Development of new process technology for commercial production of active pharmaceutical ingredients, intermediates or excipients.
- Development of Pharmaceutical dosage forms with improved stability and/or bioavailability.
- Development of standardized dosage forms through exploitation of rich natural resources including from herbal sources and traditional systems drugs.
- Applied Research in the area of biotechnology/fermentation technology.

Outstanding contributions in one or more areas of the above categories would be eligible for an award.

The Nomination Procedure

- ◆ Indian nationals and Non-Resident Indian scientists working in India or abroad are eligible for these awards.
- ◆ Please submit your nominations online, from **July 1, 2018 to August 30, 2018 and send a print copy of the nomination together with all attachments, to the office of the Foundation to reach latest by September 10, 2018.**
- ◆ The nominations should be submitted through online www.sunpharmasciencefoundation.net with the following information.
 - Photograph of the Applicant
 - Mention the category of the award for which the nomination is being submitted
 - Name of the Applicant
 - Date of birth
 - Citizenship (only Indian Scientists, Working in India and abroad are eligible for this award. Non-resident Indian Scientists are also eligible for the award).
 - Complete Office & Residence Address with Tel. Cell No. & e-mail address of the applicant.
 - Name of the Nominator
 - Complete Office Address with Tel. Cell No. & e-mail address of the nominator.
 - Signed Justification for sponsoring the nomination (not to exceed 400 words) by the nominator.



INVITATION FOR
NOMINATIONS

After uploading the Justification letter from the sponsor of the nomination, the applicant will be provided a login id and password to upload the following information.

- a. Complete bio-data of the applicant (not to exceed 3000 words)
- b. In order of importance, list of ten best papers of the candidate, highlighting the important discoveries/contributions described in them briefly (not to exceed 3000 words)
- 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)
- d. Details of the research work duly signed by the applicant, for which the Sun Pharma Research Award is claimed, including references and illustrations (not to exceed 6000 words).
- e. Copy of one or two specific publications/research papers of the applicant, relevant to the research work on which the award is claimed.
- f. **Signed** statement from the applicant to the effect that the research work under reference has not been given any award in the past. The applicant should also indicate the extent of the contribution of others associated with the research and he/she should clearly identify his/her achievements (not to exceed 500 words)
- g. Citation (summary) on the outstanding research work on which award is claimed in about 250 words **signed** by the nominator.

The nomination should be sponsored by the HEAD OF THE INSTITUTE and or a person who is competent to review the research work of the nominee.

- ◆ In regard to joint sponsorship for the award, the nominator is requested to check that the research work done by all the scientists is in the same scientific field and the contribution made by each of the scientists is clearly mentioned.
- ◆ Sun Pharma Research Awards are not for a specific research topic of a scientist, but for the overall scientific contribution in his/her specialty, and therefore, the award will be considered as one time award for a scientist's achievement. A scientist will not be considered for this award for a second time.
- ◆ The nominations will be reviewed by a Panel of Judges, consisting of eminent scientists in the fields of Medical and Pharmaceutical Sciences.
- ◆ The Award Presenting Ceremony for the 2018 Awards is expected to be held during the last quarter of 2018 or first quarter of 2019 in New Delhi. The Awardees will be paid to and fro traveling expenses (economy class) to New Delhi, in addition to other expenses connected with their stay in New Delhi for a day or two.

***Two posters in regard to these awards are enclosed.
For wider publicity, we request you to kindly display them
on the notice board of your organization/institution.***

For further details or clarification, please contact :
Office of Sun Pharma Science Foundation
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e-mail : sunpharma.sciencefoundation@sunpharma.com
Website : www.sunpharmasciencefoundation.net



SUN PHARMA
SCIENCE
SCHOLAR
AWARDS
2018

FOR YOUNG SCIENTISTS

INVITATION FOR NOMINATIONS



SUN PHARMA
SCIENCE FOUNDATION



**SUN PHARMA
SCIENCE
SCHOLAR
AWARDS
2018**

**INVITATION FOR
NOMINATIONS**

HELP US TO DISCOVER BRILLIANCE AND YOUNG TALENT IN MEDICAL AND PHARMACEUTICAL SCIENCES

We invite Heads of Research Institutions, Universities, Medical and Pharmaceutical Colleges of India to nominate Young Scientists for the "Sun Pharma Science Scholar Awards-2018".

▲ **Objective**

These awards are meant to support the brilliant and upcoming new generation of scientists and researchers of India with an aim to provide further impetus to research activity in the country and to stimulate their interest in research careers in the fields of Bio-Medical and Pharmaceutical Sciences.

▲ **The Sun Pharma Science Scholar Awards-2018**

There are four Awards, two each in Biomedical and Pharmaceutical Sciences. Value of each scholar award is Rupees Fifty Thousand and an additional fifty thousand will be provided for attending an international conference to present their abstracts/posters. To avail this additional amount, the awardee should submit the invitation letter from the conference organizing committee and all the expense details with documentary proof to the Foundation's office.

▲ **Eligibility**

1. Only Indian nationals doing their research in India are eligible for these awards.
2. Age should be less than 30 years as on August 30, 2018.
3. Should have completed at least 1st year of MD or PhD in Biomedical or Pharmaceutical Sciences. Applicants who have already completed their MD or PhD are not eligible for the Award.
4. Should have completed a Research Project
5. The Award is open to all disciplines related to Biomedical and Pharmaceutical sciences.
6. Should be willing to present his/her research work in front of knowledgeable assessors.

▲ **How to apply**

The applicants should submit their nominations through online at www.sunpharmasciencefoundation.net. The website will open to submit nominations from **July 1, 2018 to August 30, 2018**. The following informations should be uploaded on the website.

1. Detailed CV with photograph
2. Copy of their research work under the following headings :
(a) Title (b) Introduction (c) Objectives (d) Material and Methods (e) Results (f) Statistical Analysis (g) Discussion (h) Impact of the research in the advancement of knowledge or benefit to mankind (i) Literature references.
3. A letter from the supervisor certifying that the research work under reference has actually been done by the applicant, and also a citation about his/her research work.
4. A forwarding letter from the Head of Department or Head of Institution giving justification for nominating the applicant.



SUN PHARMA SCIENCE SCHOLAR AWARDS 2018

HELP US TO DISCOVER BRILLIANCE AND YOUNG TALENT IN BIO-MEDICAL AND PHARMACEUTICAL SCIENCES

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▲ The Sun Pharma Science Scholar Awards-2018

There are four Awards, two each in Biomedical and Pharmaceutical Sciences.

The Value of each scholar award is Rupees Fifty Thousand. The Foundation will provide a lump sum grant of Rupees Fifty Thousand additionally to the Science Scholars to meet their expenses for attending one international conference to present abstracts/posters, upon submitting the invitation letter and expense statement with documental proof to the office of Sun Pharma Science Foundation.

▲ Eligibility

- ◆ Only Indian nationals doing their research in India are eligible for these awards.
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Additional Information to be submitted

Marks obtained, Publications, Merits and Awards received, Scholarships received, Age proof.

A print copy of the uploaded nomination with all attachments should be submitted to the office of the Foundation to reach by September 10, 2018.

For further information, if any, please contact :

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SUN PHARMA
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INVITATION FOR
NOMINATIONS

5. A voluntary declaration from the applicant that they would work in the public or private funded academic/research based organizations for a minimum period of two years after completion of his/her studies.
6. A clear indication of the category of the award (please mention whether the nomination is for Biomedical Sciences or Pharmaceutical Sciences category).
7. A letter stating that the project submitted for Sun Pharma Science Scholar Awards-2018 has received "Ethical Clearance" from the concerned authorities (please attach certificate of ethical clearance, if any).
8. A statement duly signed by the nominee and the supervisor/co-authors that academically or financially the thesis submitted for Sun Pharma Science Scholar Awards-2018 has "no-conflict of interest" with the supervisor or co-authors.

▲ **Additional Information**

The applicant also should upload the following information with testimonials.

1. **Class XII**

- a. Aggregate marks obtained in PCB/PCM
- b. Number of attempts
- c. Year of passing

2. **Bachelor's/ Master's Degree**

- a. Aggregate marks obtained
- b. Number of attempts
- c. Year of passing

3. **Publications, if any**

- a. Name of the journal/publication
- b. Title of the article
- c. Year, volume, page number of the article (**Please upload reprint**)

4. **Merits and Awards**

- a. Name of the award/merit certificate, if any, already received by the applicant
- b. Year
- c. Achievements

5. **Scholarships**

- a. Name of the scholarship, if any, already received by the applicant
- b. Year
- c. Achievements

6. **Proof of age**

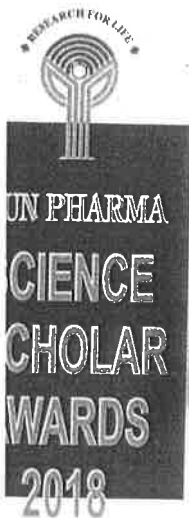
After uploading the nomination on the website, it is required to send a print copy of the nomination along with all the uploaded information, to the office of Sun Pharma Science Foundation, to reach by September 10, 2018.

▲ **Method of short listing**

The shortlisting will be done based on predetermined criteria of equal weightage and the quality of the research work. There will be three assessors each in the Biomedical and Pharmaceutical Sciences, who will evaluate the nominations independently and the average score of each will be taken into consideration. The first five candidates will be short listed in each group.

▲ **Assessment**

The short listed applicants– five each from Biomedical and Pharmaceutical Sciences will be invited by the Foundation to present their research work to a group of knowledgeable assessors. The applicants should be prepared to answer the questions, which may arise after the presentations. Besides the assessors, the other audience will include students, researchers and academicians.



INVITATION FOR
NOMINATIONS

▲ Assessors

There will be at least three assessors each in Biomedical and Pharmaceutical Sciences. The assessment will be based purely on voting by the assessors. In case of tie, the award will be jointly shared between two applicants.

▲ Result

Decision of the committee of the assessors will be final and cannot be challenged. The results will be conveyed either at the end of the session or by post, separately.

- The selected candidates will be called as Sun Pharma Science Scholars'. A certificate to this effect will be presented during the award ceremony.
- The selected Science Scholars are also expected to attend an international conference and present a paper/poster/abstract in the area of their expertise and submit a report to this effect to the Foundation.
- The Foundation will provide a lump sum grant of Rs.50,000/- to the Science Scholars to meet their expenses for attending one international conference to present their abstracts/posters, upon submitting the invitation letter and expense statement with documental proof to the office of Sun Pharma Science Foundation.
- To and fro apex air fare including boarding and lodging expenses will be provided when invited by the Foundation to receive the award. They will also be invited to participate in the annual Symposium, Research Awards Presentation Ceremony and Conferences organized by the Foundation to meet and interact with the outstanding scientists and researchers present on these occasions.

▲ Last date

The deadline for submitting the nomination is **August 30, 2018**.

▲ Responsibilities of the Science Scholars

- The Sun Pharma Science Scholars will have no claim of any sort with Sun Pharma Science Foundation or Sun Pharma group of companies.
- The Sun Pharma Science Scholars are expected to give a voluntary declaration that they would work in the public or private funded academic/research based organizations for a minimum period of two years after completion of their studies.
- The Science Scholars will keep the Foundation informed about their achievements from time to time.

*Two posters in regard to these awards are enclosed.
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SUN PHARMA
SCIENCE FOUNDATION

Annual Conference
“Training Pathways for Physician Scientist”
&
Sun Pharma Research Awards and
Science Scholar Awards Presentation

Date February 12, 2018
Time 10.00 am to 6.00 pm
Venue Gulmohar Hall
India Habitat Centre
New Delhi

Inaugural Address Prof. K. VijayRaghavan
Former Secretary-DBT
Government of India

Public Address Prof. Vishwajit Nimgaonkar
Professor of Psychiatry and
Human Genetics, University of
Pittsburgh, USA.

RESEARCH FOR LIFE



SUN PHARMA
SCIENCE FOUNDATION



SUN PHARMA
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THE SUN PHARMA SCIENCE FOUNDATION

The Sun Pharma Science Foundation is a non-profit organization registered under Societies Registration Act. The objective of the Foundation is to promote scientific research in the fields of Medical and Pharmaceutical Sciences in the country through encouragement and rewarding excellence in research in the above areas and by channelizing both national and international knowledge and expertise.

The sole Mission of the Foundation is "to promote Medical and Pharmaceutical Research in India by rewarding excellence and identifying sources of knowledge and expertise."

The Sun Pharma Science Foundation is backed by (but is independent of) Sun Pharmaceutical Industries Ltd (SPIL). The Foundation is managed by an autonomous Governing Council and all the Council Members are independent and have no interest in the commercial activities of Sun Pharmaceutical Industries Limited.

Activities of the Foundation

1. Scientific Symposia in the frontline areas of research

Foundation organizes Annual Symposium on topics at the cutting edge of research in Medical Sciences to explore the latest research in the selected area of speciality which holds promise of improved health care and its potential application to the benefit of mankind.

2. Conferences on topics of National Public Health Concern

The Foundation organizes Conferences on topics of contemporary concern to human health which pose challenges. The aim of these multidisciplinary round table conferences is to review the collective experiences of basic scientists, laboratory scientists, epidemiologists, clinicians and public health professionals.

3. Invite Foreign Scientists as Visiting Professors

Foundation invites one outstanding research scientist from abroad every year to work with Indian scientists in Indian Laboratories to elevate the capabilities of Indian Scientists and widen their knowledge base in the ongoing research on topics related to health development.

4. Awards to the Indian Scientists for outstanding research work

The Foundation recognizes and rewards excellence in original research work in Medical and Pharmaceutical Sciences, presented annually to the Indian scientists working in India and abroad. Every year the Foundation invites nominations for 4 awards – 3 awards in Medical Sciences (one each in Basic, Medical and Clinical research) and 1 in the field of Pharmaceutical Sciences. Each award carries a trophy, citation and a cash award of Rupees two lac.

5. Science Scholar Awards for Young Scientists

Foundation presents Science Scholar Awards to brilliant and upcoming young researchers with an aim to discover brilliance and young talents in science and research. These awards are meant to stimulate the young minds to pursue research as a career by way of soliciting commitment for the cause of future advancement of science in fields of medical and pharmaceutical sciences. These young scientists are designated as 'Sun Pharma Science Scholars'. Each Science Scholar Award carry a certificate and a cash award of Rupees fifty thousand.

6. Special Awards for outstanding contributions in Public Health

The Foundation presents special awards to administrators/public health scientists to recognize their contribution to the society, for dealing effectively with various serious public health problems being faced by the people.



Message from Managing Director Sun Pharmaceutical Industries Limited

The participation of physician-scientists in the biomedical research enterprise helps bridge the gap between basic science and clinical practice to address the healthcare needs of the public. In recent years, however, the number of physicians engaged in research career has declined by over half. The number of physicians with in-depth experience and formal training in research, design, development, implementation, statistical analysis, and interpretation of scientific information is decreasing. A number of factors are associated with this decline in research training. The existing research training options for premedical and medical students are often too brief to allow the trainee to make informed career decisions. Research training experience that is offered during the residency of a combined MD/PhD programs is typically short and fragmented across years of training. Another barrier is limited faculty time and funding for mentoring.

In the above context, Sun Pharma Science Foundation is organizing a conference in association with "Translational Health Science and Technology Institute" on the topic "Training Pathways for Physician Scientists" to address the challenges and potential solutions from the perspective of academic, medical and basic science institutions in India. I am sure that the deliberations from this conference will draw valuable recommendations and guidelines for policy makers, governments and funding agencies.

In pursuit of the Foundation's mission of promoting Medical and Pharmaceutical Research in India by rewarding excellence and identifying sources of knowledge and expertise, today we are honouring four distinguished scientists with Sun Pharma Research Awards for their significant and outstanding contributions in the areas of medical and pharmaceutical sciences. We are also honouring four young and brilliant upcoming scientists with Sun Pharma Science Scholar Awards for their passion, devotion and commitment to advanced science.

We are privileged to have amidst us, a galaxy of experts from India and abroad to participate in this conference and the award ceremony. I extend a hearty welcome to all of them, especially Prof. Vishwajit Nimgaonkar from University of Pittsburgh, USA and Prof. Ashok Balasubramanyam from Baylor College of Medicine, USA. I take this opportunity to welcome all the Speakers, Chairpersons and Discussants of this conference, who have kindly accepted our invitation to share their vast knowledge and wisdom with the scientific community.

As a part of its Corporate Social Responsibility, Sun Pharmaceutical Industries Limited through Sun Pharma Science Foundation, is committed to promoting science and technology in the country. Sun Pharma Science Foundation will continue to further science by recognizing and rewarding excellence in science and research. My best wishes to the Sun Pharma Research Awardees and Sun Pharma Science Scholar Awardees for their future endeavors. I welcome all the Research Awardees, Science Scholar Awardees and the distinguished guests for their gracious presence on this occasion.

I would also like to welcome Prof. K. VijayRaghavan, Former Secretary, Department of Biotechnology, Government of India, for being with us to grace this occasion with his presence and Inaugural Address.

I would like to thank Prof. Virander S. Chauhan, Chairman of Sun Pharma Science Foundation and all Members of the Governing Council of the Foundation for their guidance and support for the fulfillment of the mission and objectives of the Foundation.

I would also like to thank the Jury Members of Sun Pharma Research Awards and Sun Pharma Science Scholar Awards and appreciate their efforts and time for selecting the most suitable candidates for these awards.

I take this opportunity to thank the Translational Health Science and Technology Institute and its Director, Prof. Gagandeep Kang for designing a meaningful program for the conference.

This conference draws together a diverse range of researchers, practitioners, and others working in different areas of academic, medical, basic and applied research, to discuss the facts and their views on Training Pathways for Physician Scientists. I am sure that today's conference will be motivating and rewarding for all the participants.

Best Wishes

Dilip Shanghvi



SUN PHARMA
SCIENCE FOUNDATION

THE GOVERNING COUNCIL MEMBERS

| Chairman | Member Secretary |
|---|--|
| <p>Prof. Virander Singh Chauhan, D Phil (Oxon) J. C. Bose Fellow (DST) Distinguished Biotechnology Research Professor (DBT) International Centre for Genetic Engineering and Biotechnology Aruna Asaf Ali Marg, New Delhi-110067</p> | <p>Dr. Rajinder Kumar Jalali Vice President Medical Affairs and Clinical Research Head, Global Pharmacovigilance Sun Pharmaceutical Industries Ltd. Sarhaul, Sector-18 Gurgaon-122015 Haryana</p> |
| Members | |
| <p>Dr. Shiv Kumar Sarin Director Institute of Liver & Biliary Sciences D-1, Vasant Kunj New Delhi-110070</p> | <p>Prof. Shahid Jameel CEO The Wellcome Trust/DBT India Alliance 1110 DLF Tower B Jasola District Centre New Delhi 110025</p> |
| <p>Dr. Madhu Dikshit CSIR - Central Drug Research Institute Sector 10, Jankipuram Extn. Sitapur Road Lucknow-226031</p> | <p>Prof. Ganesh Prasad Pandey Director Centre of Biomedical Research Sanjay Gandhi Post Graduate Institute of Medical Sciences Campus Raebareli Road, Lucknow-226014</p> |
| <p>Prof. Nikhil Tandon Professor & Head Department of Endocrinology & Metabolism All India Institute of Medical Sciences Ansari Nagar, New Delhi-110029</p> | <p>Prof. Lalit Kumar Professor & Head Department of Medical Oncology Institute Rotary Cancer Hospital All India Institute of Medical Sciences Ansari Nagar, New Delhi-110029</p> |
| <p>Prof. Gagandeep Kang Professor The Wellcome Trust Research Laboratory Division of Gastrointestinal Sciences, Christian Medical College Vellore, TN 632004</p> | |



SUN PHARMA
SCIENCE FOUNDATION

SUN PHARMA RESEARCH AWARDEES-2016

Medical Sciences- Basic Research



Dr. Rajan Sankaranarayanan

Chief Scientist

CSIR-Centre for Cellular and Molecular Biology

Uppal Road, Hyderabad – 500 007, India

Dr. Rajan Sankaranarayanan has been selected for the Sun Pharma Research Award-2016 in the field of Medical Sciences-Basic Research for his outstanding contributions in the area of protein biosynthesis by studying proofreading mechanisms using structural biology approaches. Notably, his work has uncovered how chirality-based checkpoints operate in excluding D-chiral amino acids from entering the translation machinery and has shown that the mechanism is conserved from bacteria to mammals. The work has implications for probing the role of such checkpoints in the neuronal context as some D-amino acids are well known neurotransmitters.

Medical Sciences- Medical Research



Dr. Vikram Mathews

Associate Director

Professor and Head

Department of Clinical Haematology

Christian Medical College

Vellore 632004, India

Dr. Vikram Mathews has been selected for the Sun Pharma Research Award-2016 in the field of Medical Sciences-Medical Research. He is a physician-scientist who is best known for his work in Acute Promyelocytic Leukemia (APL) and the use of arsenic trioxide (ATO) in the treatment of this condition. The work done by his group was instrumental in moving this well tolerated agent as front line therapy in the management of APL. Over a series of publications all aspects of treatment of APL with regards to optimizing therapy, risk stratification, minimal residual disease monitoring, toxicity profile and cost analysis with specific attention to factors that are relevant to India and other low and minimal income countries have been addressed by this group. Dr. Vikram Mathews continues to work on mechanisms of drug resistance in acute leukemia with special interest in micro-environment mediated mechanisms of drug resistance and metabolic alterations and adaptations in leukemia.



SUN PHARMA
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Medical Sciences - Clinical Research



Dr. Ashish Suri

Professor of Neurosurgery
Neurosciences Center
All India Institute of Medical Sciences
New Delhi, India

Dr. Ashish Suri has been selected for the Sun Pharma Research Award-2016 in the field of Medical Sciences-Clinical Research. He has pioneered research in developing innovative techniques and treatment protocols for complex skull-base and brain tumor surgery; and high-end collaborative deliverable-based translational research and development in Neuro-Engineering in Neurosurgery Simulation. Landmark achievements include structured modular simulation-based neurosurgery skills curriculum with Pan-India and Indo-German collaboration; computerized evaluation of neurosurgery task-based skills; open-source, interactive skills-based 3D/stereoscopic e-learning platform; physical, hybrid and virtual simulators and innovative instrumentation.

Pharmaceutical Sciences



Dr. D. Srinivasa Reddy

Senior Scientist
Division of Organic Chemistry
CSIR-National Chemical Laboratory
Dr. Homi Bhabha Road, Pune 411008

Dr. D. Srinivasa Reddy has been selected for the Sun Pharma Research Award-2016 in the field of Pharmaceutical Sciences. He is best known for his work in the area of total synthesis of biologically active natural products and medicinal chemistry using "silicon incorporation approach" towards identification of lead molecules of therapeutic potential. His research group accomplished total synthesis of more than 25 natural products with impressive biological activities. A few recent achievements from his group include identification of potential leads: (i) antibiotic compound based on hunanamycin natural product for treating food infections, (ii) anti-diabetic molecule in collaboration with an industry partner and (iii) anti-TB compound using a strategy called "repurposing of a drug scaffold". Prior to joining CSIR-NCL, Dr. Reddy spent 7 years in drug discovery pharmaceutical industry where he played a key role in discovering a Phase-II clinical candidate. He is an author of 82 publications and inventor in 35 patents.



SUN PHARMA
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SUN PHARMA SCIENCE SCHOLAR AWARDEES-2017

Biomedical Sciences



Ms. Punita Kumari

PhD student

Biological Sciences & Bioengineering department
Indian Institute of Technology, Kanpur-208016, India

Ms. Punita Kumari has been selected for the Sun Pharma Science Scholar Award 2017 in the field of Bio-Medical Sciences. Her research work has developed a better understanding of the signaling and regulation of G protein-coupled receptors (GPCRs), the largest class of drug targets in the human body. Her research has revealed a novel paradigm in GPCR biology where distinct conformations of GPCR signaling complexes mediate different downstream functional outcomes. Her findings have elucidated a key aspect of spatio-temporal regulation of GPCR signaling and they have direct implications for designing novel GPCR therapeutics with minimized side-effects.



Ms Aditi Jain

PhD Candidate

Senior Research Fellow
Centre for BioSystems Science and Engineering
Indian Institute of Science
Bangalore-560012, India

Ms. Aditi Jain has been selected for the Sun Pharma Science Scholar Award-2017 for Young Scientists in the field of Bio-Medical Sciences. Her award winning research work entitled ' Understanding cardiac failure using engineered materials' provides a suitable laboratory substitute to conduct research on cardiac cells for developing better therapies to treat heart diseases. This research work highlights the biocompatibility, suitability and ease of using keratin coated surfaces for supporting spontaneously contracting cardiomyocytes. Keratin can be easily extracted from discarded human hair which is available in abundance. Moreover, an organotypic cardiac model was designed using engineered micro-ridges to investigate the importance of topography in assessing cardiac function. These engineered cardiomyocytes show strikingly directional flow of calcium currents similar to what is seen in native heart. This system was validated to serve as model for studying cardiac hypertrophy at transcriptional as well as translational level. These engineered biomaterials are a promising in vitro platform for research related to understanding pathophysiology of the heart.



SUN PHARMA
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Pharmaceutical Sciences



Mr. Gaurav Joshi

PhD Candidate

Junior Research Fellow

Laboratory for Drug Design and Synthesis

Department of Pharmaceutical Sciences and Natural Products

Central University of Punjab

Bathinda-151001, India

Mr. Gaurav Joshi has been selected for the Sun Pharma Science Scholar Award-2017 for Young Scientists in the field of Pharmaceutical Sciences. Mr. Gaurav is pursuing his Ph.D. under the supervision of Dr. Raj Kumar and co-supervision of Dr. Sandeep Singh. His award-winning research work entitled "Targeting chromatin coupled enzymes by small molecules in cancer cells" explored the design strategies, synthesis and biological evaluation of the novel heterocycles as the multifunctional inhibitors of Epidermal Growth Factor Receptors (EGFR), Histone Deacetylases (HDAC) and Human Topoisomerases (hTopo) as anticancer agents. The overall aim of the work was to understand the epigenetic mechanism as well as design novel compound(s) to either (a) inhibit kinase-chromatin mediated cross-talks, and or (b) develop safe and efficacious drugs for cancer. The present work seeks exchange and imparts the knowledge to applied medical sciences for the treatment of cancer which requires multidisciplinary research skills needed to carry out bench to bedside research.



Mr. Shasank Sekhar Swain

PhD Research Scholar,

Central Research Laboratory,

Institute of Medical Sciences & SUM Hospital,

Siksha 'O' Anusandhan (Deemed to be University),

Bhubaneswar-751003, Odisha, India

Mr. Shasank Sekhar Swain has been selected for the 'Sun Pharma Science Scholar Award-2017 for Young Scientists', in the field of Pharmaceutical Sciences for his innovative research work, "Conjugation of a phytochemical with an obsolete drug as a novel strategy towards antimicrobial drug discovery: a case study with sulfonamide-monoterpene phenols against MRSA". The chemical conjugation of a phytochemical with a sulfa drug through azo-dye coupling reaction is a novel idea for reuse of sulfa drugs against methicillin resistant *Staphylococcus aureus* (MRSA). Moreover, bioinformatic tools for the validation of drug likeness properties before synthesis was an ideal approach during the development of effective antibacterials with minimum time and resources. The conjugation process is not tedious; eventually the mass production of the conjugated chemicals could be possible. The used conjugation method could be extended for the reuse of other obsolete drugs with a suitable phytochemical against any disease.



SUN PHARMA
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SUN PHARMA RESEARCH AWARDEES IN THE PAST

Sun Pharma Research Awardees-2014



Medical Sciences – Basic Research

Dr. Rajesh S. Gokhale

Staff Scientist VII
National Institute of Immunology
Aruna Asaf Ali Marg
New Delhi 110067 India

Dr. Rajesh S. Gokhale was selected for the Sun Pharma Research Award for his pioneering discovery of “Polyketide Quinones” in *Mycobacterium tuberculosis* (Mtb), the causative agent of Tuberculosis (TB) in humans.



Medical Sciences- Medical Research

Prof. (Dr) Akhil C Banerjea

Staff-Scientist VII, Professor
Laboratory of Virology
National Institute of Immunology
New Delhi-110067 India

Professor (Dr) Akhil C Banerjea was selected for the Sun Pharma Research Award for his numerous pioneering discoveries in the field of HIV/AIDS and other viruses.



Medical Sciences- Clinical Research

Dr. Patrick S. Kamath

Professor of Medicine
Division of Gastroenterology and Hepatology
Mayo Clinic College of Medicine
200 First Street SW, Rochester MN 55905 USA

Dr. Patrick S. Kamath was selected for the Sun Pharma Research Award for developing the Model for End-Stage Liver Disease (MELD) score.



Pharmaceutical Sciences

Dr. Ram Vishwakarma

Director
CSIR - Indian Institute of Integrative Medicine
(Council of Scientific and Industrial Research)
Canal Road, Jammu 180 001 India

Dr. Ram Vishwakarma was selected for the Sun Pharma Research Award for his notable contributions in chemical biology of GPI anchors and new drug discovery.



SUN PHARMA
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Sun Pharma Research Awardees-2015



Medical Sciences – Basic Research

Prof. Subrata Sinha

J C Bose Fellow

Director

National Brain Research Centre

Manesar, Gurgaon, Haryana 122051 India

Professor Subrata Sinha was selected for the award in the field of Basic Research in Medical Sciences for his pioneering research on glioma biology, particularly in the area of functional genomics and the molecular basis of the tumour heterogeneity.



Medical Sciences – Medical Research

Prof. Debabrata Dash

Professor

Department of Biochemistry, Institute of Medical Sciences

Banaras Hindu University

Varanasi-221005 India

Prof. Debabrata Dash was selected for the award for his outstanding contributions in areas of translational nanomedicine, platelet biology and thrombosis research.



Medical Sciences – Clinical Research

Dr. Virender S Sangwan, (MS)

Dr. Paul Dubord Chair in Cornea, TejKohli Cornea Institute

Director, Center for Ocular Regeneration (CORE)

Director, Srujana-Center for Innovation

L V Prasad Eye Institute, KallamAnji Reddy Campus

Banjara Hills, Hyderabad - 500 034 India

Dr. Virender Singh Sangwan was selected for the award for his pioneering and successful application of limbal stem cell-based treatment of the damaged corneas.



Pharmaceutical Sciences

Dr. Anil Koul, Ph.D.

Director

CSIR - Institute of Microbial technology (IMTECH)

Sector 39A, Chandigarh-160036 India

Dr. Anil Koul was selected for the award for his contribution in discovery & development of SIRTUOTM – a new drug for treatment of drug-resistant tuberculosis, which has been approved across several countries in the world, including US, EU and India and is on the WHO's list of essential medicines.



SUN PHARMA SCIENCE SCHOLAR AWARDEES IN THE PAST

Sun Pharma Science Scholars-2015



Bio-Medical Sciences

Mr. Kirtimaan Syal

Molecular Biophysics Unit
Indian Institute of Science
Bangalore-560012 India

Mr. Kirtimaan Syal was selected for the award for his research work on secondary messenger (p)ppGpp-the master regulator of stress response and persistence in bacteria.



Ms. Deepali Joon

PhD Student (SPM Fellow)
Dr BR Ambedkar Center for Biomedical Research
University of Delhi
Delhi-110007 India

Ms. Deepali Joon was selected for the award for her research work on "Development and evaluation of rapid and sensitive in-house isothermal nucleic acid amplification assay for detection of M. tuberculosis for the diagnosis of pulmonary and extrapulmonary tuberculosis".



Pharmaceutical Sciences

Mr. Sumit Arora

PhD Scholar
Department of Pharmaceutics
National Institute of Pharmaceutical
Education and Research (NIPER), SAS Nagar
Mohali-160062 India

Mr. Sumit Arora was selected for the award for his research work on "Aerosolized Delivery of Voriconazole for the Treatment of Invasive Pulmonary Aspergillosis".



Mr. Sarwar Beg

UGC Meritorious Research Fellow in Science
University Institute of Pharmaceutical Sciences
Punjab University, Sector-14
Chandigarh-160014 India

Mr. Sarwar Beg was selected for the award for his research work entitled, "Systematic Development of Optimized Oral Nanostructured Drug Delivery Systems of Cardiovascular Drugs employing Quality by Design (QbD) Paradigms"



SUN PHARMA
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SUN PHARMA SCIENCE SCHOLARS-2016



Bio-Medical Sciences

Mr. Venkateswara Rao Amara

PhD scholar

Dept. of Pharmacology & Toxicology,
National Institute of Pharmaceutical Education and Research S.A.S. Nagar
Punjab-160062 India.

Mr. Venkateswara Rao Amara, was selected for the award for his research work, "Study of the effect of High Salt Diet on Cardiovascular and Renal systems in Uninephrectomized rats"



Ms. Rashi Arora

PhD student

Senior Research Fellow,
Dr. B. R. Ambedkar Center for Biomedical Research
University of Delhi, Delhi-110007 India

Ms. Rashi Arora was selected for the Sun Pharma Science Scholar Award for her research work entitled "Esculetin induces antiproliferative and apoptotic response in pancreatic cancer cells by directly binding to KEAP1", she has explored the anticancer potential of a naturally occurring coumarin derivative, esculetin in pancreatic cancer cells.



Pharmaceutical Sciences

Ms. Supriya V. Vartak

Graduate student

Department of Biochemistry
Indian Institute of Science
Bangalore 560012 India

Ms. Supriya V. Vartak was selected for the award for her research work entitled "Antiapoptotic protein BCL2 and DNA Repair protein LIGASE IV: Novel strategies for Targeted Cancer Therapy".



SUN PHARMA
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Sarhaul, Sector-18, Udyog Vihar
Gurgaon-122015 (Haryana)