



SUN PHARMA
SCIENCE FOUNDATION

Sun Pharma Science Foundation Annual Conference on “CRISPR and the Clinic – So Near and Yet So Far”

Date : **March 18, 2023 – 09:00 to 17:00 hours**

Venue : **NAMS Auditorium, Ansari Nagar, New Delhi.**

Gene therapy is a promising new frontier, which has been recently enriched by CRISPR technology. CRISPR, or Clustered Regularly Interspaced Short Palindromic Repeats based technology originates from a bacterial defence system, which has been adapted to mammalian (including human) cells to induce alterations in the genome with a previously unimagined degree of precision. The ease and precision of the system also promises easy translatability to clinical conditions. In order to clinically translate any technology, along with scientific advancements, we require scalability and regulatory platforms to facilitate their use. This is true for both therapeutics and diagnostics. In the field of diagnostics, we already have extensive experience with CRISPR based diagnostics for COVID 19. This would also be discussed in the conference, with reference to the development of rapid and accurate point of care CRISPR based diagnostics for both communicable and non-communicable diseases.

The conference would have speakers who are at the cutting edge of basic science, scientists whose work is being clinically translated, participants from the industry, science agencies and patient advocacy groups. With active participation from the audience, this conference aims to promote a dialogue and create a blue print for effective, safe, and accessible CRISPR based gene therapy and diagnostics in India.

Scientific Advisory Committee:

Prof. Virander S. Chauhan, Chairman Sun Pharma Science Foundation

Prof. Subrata Sinha, JC Bose Fellow (AIIMS, Delhi)

Dr. Kunzang Chosdol, AIIMS, Delhi

Dr. Sivaprakash Ramalingam, CSIR-IGIB, New Delhi and

Dr. Amit Nasa, Sun Pharma Science Foundation

For further information, please contact:-

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Sun Pharma Science Foundation

Annual Conference

“CRISPR and the Clinic – So Near and Yet So Far”

Conference Highlights

- Overview of CRISPR technology in biology
- Therapeutic innovations involving CRISPR
- CRISPR and Diagnostics
- CRISPR and Hematological disorders
- CRISPR and Neoplastic diseases
- CRISPR and Embryonic gene correction
- Societal dimensions of CRISPR.
 - Accessibility and Intellectual property
 - Policies, Regulation and Support
 - Industry participation

Registration now open: <https://www.sunpharmasciencefoundation.net/>
(either in-person or on-line participation)

Date: 18 March, 2023; 9am onwards
Venue: NAMS Auditorium,
National Academy of Medical Sciences (NAMS)
(Next to ICMR and AIIMS)
New Delhi-110029

Conveners:

Prof. Virander S Chauhan, Chairman - SPSF
Prof. Subrata Sinha, JC Bose Fellow, AIIMS, ND

Co-conveners:

Prof. Kunzang Chosdol, AIIMS, ND
Dr. Sivaprakash Ramalingam, CSIR-IGIB, ND
Dr Amit Nasa, Sunpharma Science Foundation



Sun Pharma Science Foundation Annual Conference

“CRISPR and the Clinic – So Near and Yet So Far”

Faculty

Dr. Alka Sharma, DBT, India	Dr. Mahendra Rao, NKURE Therapeutics, Bengaluru
Dr. Alok Bhattacharya, Ashoka University, Haryana	Dr. Maneesha Inamdar, inStem, Bengaluru
Dr Amit Tripathi, DBT, India	Dr. Mohan Kumar, CSCR, CMC Vellore
Dr. Annarita Miccio, Paris Cite' University, France	Dr. Rahul Purwar, IIT Bombay
Dr. Debojyoti Chakraborty, CSIR-IGIB, Delhi	Dr. Raj Puri, Iovance Biotherapeutics, USA
Dr. Geeta Jotwani, ICMR, Delhi	Dr. S S Chauhan, AIIMS, Delhi
Dr. Jayandharan Rao, IIT Kanpur	Dr. Senthil Venugopal, South Asian University, Delhi
Dr. Jayanth Palanichamy, AIIMS Delhi	Dr. Sivaprakash Ramalingam, CSIR-IGIB, Delhi
Dr. Kalpana Luthra, AIIMS, Delhi	Dr. Subrata Sinha, AIIMS, Delhi
Dr. Kunzang Chosdol, AIIMS, Delhi	Dr. Tanveer Ahmad, Jamia Millia Islamia, Delhi
Dr. Madhulika Kabra, AIIMS, Delhi	Dr. V. Ravi, Tata Medical and Diagnostics Ltd. Bengaluru



Sun Pharma Science Foundation's National Conference

Topic : CRISPR and the Clinic: So Near and Yet So Far

Venue : NAMS Auditorium, National Academy of Medical Sciences, New Delhi

Date : Saturday, March 18, 2023

Conveners : Prof. Virander S Chauhan, Chairman, Sun Pharma Science Foundation
Prof. Subrata Sinha, JC Bose Fellow, AIIMS, New Delhi

Co-conveners : Prof. Kunzang Chosdol, AIIMS, New Delhi
Dr. Sivaprakash Ramalingam, CSIR-IGIB, New Delhi.
Dr. Amit Nasa, Sun Pharma Science Foundation.

PROGRAM

09:00 AM-09:30 AM	REGISTRATION	
09:30 AM-10.00 AM	Inauguration and introduction to the program	
09:30 AM-09.45 AM	Welcome Address	Prof. Virander S. Chauhan Chairman, Sun Pharma Science Foundation
09:45 AM-10.00 AM	Introductory talk: Therapeutic intervention and clinical trials involving gene therapy and CRISPR	Prof. Subrata Sinha, AIIMS, Delhi
Scientific Session I : Regulation and promotion/CRISPR and the patients perspective		
MODERATORS	Prof Madhulika Kabra, AIIMS, Delhi Prof Subrata Sinha, AIIMS, Delhi	
10.00AM-10.10AM	Policies, Encouragement and Regulation	Dr. Alka Sharma, DBT
10.10AM-10.20AM	Policies, Encouragement and Regulation	Dr. Geeta Jotwani, ICMR
10.20AM-10.30AM	Regulatory innovations in USA that enable and facilitate the use of gene therapy	Dr. Raj Puri, Iovance Biotherapeutics, USA

10.30AM-10.40AM	Issues with commercializing CRISPR based technologies and possible alternatives	Dr. Mahendra Rao, NKURE Therapeutics, Bengaluru
10.40AM-10.50AM	Technology, Intellectual Property and Accessibility	Dr. Alok Bhattacharya, Ashoka University, Sonapat
10.50AM-11.30AM	Panel discussion: Regulation and promotion/CRISPR and the patients perspective	Dr. Alok Bhattacharya; Dr. Mahendra Rao; Dr. Geeta Jotwani; Dr. Alka Sharma; Dr. Subrata Sinha
11.30 AM-11:50 AM	TEA BREAK	
Chairpersons	Prof Madhulika Kabra, AIIMS, Delhi Prof Subrata Sinha, AIIMS, Delhi	
11.50 AM-12.10PM	Heritable human genome editing: Hope and Fear	Dr. Maneesha Inamdar, inStem, Bengaluru
Scientific Session II – CRISPR and Diagnostics		
Chairpersons	Dr. Kalpana Luthra, AIIMS Delhi Dr Senthil K Venugopal, South Asian University, Delhi	
12.10 AM- 12.30 PM	Reading and writing the genome with precision	Dr. Debojyoti Chakraborty, CSIR-IGIB, Delhi
12.30 PM -12.50 PM	CRISPR mediated diagnostics Industry perspective	Dr. V. Ravi, TATA Diagnostics, Bengaluru
12.50 PM -01.10 PM	Simultaneous detection of multiple respiratory viruses with high sensitivity using a combined CRISPR -Cas12/13	Dr. Tanveer Ahmad, Jamia Millia Islamia, Delhi
Scientific Session III - CRISPR and Human Disease 1		
Chairpersons	Dr. Kunzang Chosdol, AIIMS, Delhi Dr. Jayanth Palanichamy, AIIMS Delhi	
01.10 PM-01.35 PM	Genome editing strategies for betahemoglobinopathies	Dr. Annarita Micco, France

01.35 PM-02.30 PM	LUNCH BREAK	

Contd: Scientific Session III - CRISPR and Human Disease 1

Chairpersons	Dr. Kunzang Chosdol, AIIMS, Delhi Dr. Jayanth Palanichamy, AIIMS Delhi	
02.30 PM-02.50 PM	CRISPR mediated elucidation of cancer biology and druggable targets	Dr. S. S. Chauhan, AIIMS, Delhi
02.50 PM- 03.10 PM	Genome-editing in CAR NK cells	Dr. Mahendra Rao, NKURE Therapeutics, Bengaluru
03.10 PM- 03.30 PM	CAR journey in India: Discovery to Clinic	Dr. Rahul Purwar, IIT Bombay
03.30 PM- 03.50 PM	TEA BREAK	

Scientific Session IV - CRISPR and Human Disease 2

Chairpersons	Dr. Sivaprakash Ramalingam, CSIR-IGIB, Delhi Dr. Amit K Tripathi, DBT, India	
03.50 PM- 04.10 PM	Therapeutic gene editing with an AAV based CRISPR/Cas9 and a bypass coagulation factor in a murine model of hemophilia	Dr. Jayandharan Rao, IIT Kanpur
04.10 PM- 04.30 PM	Genome-editing to treat hematological diseases	Dr. Mohan Kumar, CSCR, CMC, Vellore
04.30 PM-05.00 PM	Vote of Thanks and Conclusion of the Seminar	