



NANOBIOTECK-2018

NANOBIOTECK- 2018 was being organised by Indian Society of Nanomedicine (ISNM) at All India Institute of Medical Sciences from 24th - 27th October, 2018. NANOBIOTECK-2018 is jointly hosted by All India Institute of Medical Sciences, New Delhi and Indian Institute of Technology, New Delhi in partner with Department of Biotechnology and Department of Science & Technology, Government of India and National Innovation Foundation.

The conference was aimed at providing an interdisciplinary and interactive platform for nano-scientists, engineers, clinicians, regulators, industry representatives, policy makers and related stakeholders to advance research and promote innovations and commercialization of Nano-enabled products to address various issues related to HealthCare.

The conference will focus deliberations around the following thematic areas:

- Tissue specific drug delivery vehicles for important diseases
- Nano-formulations for drugs to enhance their efficacy and therapeutic spectrum
- Diagnostics for early disease detection and Imaging
- Design and development of smart nano-materials/scaffolds, system and devices for medical application.
- Learning from failures-Promoting laboratory research leads for application development.
- Stakeholders View-B2B
- Safety and regulations for nano-products and processes.



Concurrent with the Conference, was an "Innovation Bazaar". The objective of the INNOVATION BAZAAR was to bring together an entire ecosystem of change and witness confluence of stakeholders striving to bring nanotechnology and innovations to the forefront of healthcare showcasing innovations from the vantage point of healthcare development in India.

NANOBIOTECK – 2018 was attended by Experts/Students/Researchers from background of :

- Nano-/Biomedical Sciences
- Chemical/Physical Sciences
- Medical Sciences
- Engineering
- Pharmaceutical Sciences
- Policy Makers (Govt. Agencies)
- Regulators
- Investors and Related Stake Holders
- Industry Representative
- Innovators

NANOBIOTECK – 2018 saw a footfall of more than 350 delegates

- 105 faculties, experts and young scientists
- 178 PhD scholars/students.
- 8 company representatives
- 85 students (School children from 11th and 12th + Undergraduate students from AIIMS, IIT – Delhi) attended the Pre-Conference Workshop.



NANOBIOTECK – 2018 offered 3 major sectors in the field of Nanomedicine:

1. Pre-Conference Nanomedicine School; 24th October 2018

An interactive school for the students and researchers explaining the basis of Nanotechnology intervention in medical practice involving diagnostics, imaging and therapy in the emerging era of Precision Medicine taught by eminent scientist of international repute.

(Basic and Simple Understanding of Nanomedicine for UnderGraduate/Post-Graduate/PhDs/Scientists from Basic Science/Engineering/Medical Background)

The agenda of the Nanomedicine School is as follows:

- Inaugural Session
- Basic Concepts of Nanotechnology
 - Prof. B. R. Mehta, IIT – Delhi
 - Prof. Ashok Ganguli, IIT – Delhi
 - Prof. A. K. Dinda, AIIMS, Delhi
- Nanotechnology Applications in Medicine
 - Prof. Thomas Webster
- The Future of Nanomedicine
 - Dr. Debarata Mukhopadhyay
- Clinician - Scientist Interaction
 - Changing Trends in Medical Practices: Emerging Ideas at the interface of Nano and Medicine

Nanomedicine School was attended by 85 students (***School children from 11th and 12th from Schools in NCR + Undergraduate students from AIIMS, IIT – Delhi***) along with the regular delegates of NANOBIOTECK – 2018.



2. Main Conference – NANOBIOTECK – 2018; 25th – 27th October 2018

NANOBIOTECK – 2018 covered the areas related to:

- Nanotherapeutics & Diagnostics
- Nanobots & Artificial Intelligence in Healthcare
- Regenerative Medicine & Cosmoceutics
- Regulatory Research & Commercialized of NanoProducts
- Nanoimmunotherapeutics

The main conference boasts the participation of 7 Plenary Talks, 15 invited talks, 7 Snapshot Oral Presentations (by young Principle Investigators) and 182 posters presentations.

3. Innovation Bazaar; 26th – 27th October 2018

It was an event for start-ups, small businesses and exciting projects with innovation. The event provided the opportunity for academia and industry interaction and to showcase the technologies/prototypes for future prospects.

The participants included:

- Innovators
- Medical Professionals
- Representative from Incubators
- Technology Development Board, DBT
- BIRAC, DBT
- SERB, DST
- Regulatory Agencies
- Investment Management Firms
- Credit Rating and Equity Research Firms
- Consulting Firms
- Representatives Business Media
- Knowledge Management Firms
- CII, FICCI and other sectoral regulators
- WHO, UNICEF



The Innovation Bazaar was an open innovation marketplace for ideas around the theme of “new ways of working”. The Innovation Bazaar was a concept that was located between the point of an idea and the first prototype, making it different to, and more inclusive than, other exhibitions/awards for innovation.

NANOBIOTECK - 2018 brought together 105 PIs and experts promoting Nano-Science development, expand capacity to address current and future development challenges. It also provided a valuable networking opportunity and set the stage for further cooperation among all the participants. Apart from that, NANOBIOTECK – 2018 registered a participation of 178 PhDs and post-graduate students, 85 students (including school children and undergraduate students) and 8 Company representatives. The event was sponsored by DBT, SERB.

NANOBIOTECK – 2018 began with a Pre-Conference “NANOMEDICINE SCHOOL to provide Basic and Simple Understanding of Nanomedicine for UnderGraduate/Post-Graduate/PhDs/Scientists from Basic Science/Engineering/Medical Background.

NANOBIOTECK – 2018 was officially inaugurated post-lunch on 25th October 2018 by lighting of lamp in presence of **Prof. K. N. Ganesh** (*Chairman - DBT Nanobiotechnology TaskForce*), **Prof. Randeep Guleria** (*Director, AIIMS*), **Dr. Suchita Ninawe** (*Advisor, DBT*), **Dr. Dhananjay Tiwari** (*Joint Director, DBT*), with **guest of honors** as **Prof. Balram Bhargava** (*Director General, ICMR*), **Dr. Renu Swaroop** (*Secretary, DBT*), **Prof. Ashutosh Sharma** (*Secretary, DST*) and **Chief Guest** as **Prof. V. K. Paul** (*Member, NITI Aayog, GoI*). The inaugural session was preceded by **Prof. Y. K. Gupta** (*President – ISNM & Professor, AIIMS*) and **Prof. A. K. Dinda** (*General Secretary – ISNM & Professor, AIIMS*).



Like preceding years, NANOBIOTECK - 2018 featured the conference thematic sessions in following pattern:

- 1 Plenary Talk – reviewing, showcasing the challenges and oppurunities in specific thematic area
- 2 - 3 Invited Talks – illustrating their interest, work and results.
- Brief 45 minutes discussion between panelists, speakers and audience

The mega event, NANOBIOTECK – 2018 concluded on 27th October 2018 with Award ceremony where 12 students were rewarded with a certificate and a cash prize of Rs. 5,000/- each for best poster under thematic areas of the conference. Vote of Thanks was delivered by Prof. A. K. Dinda, General Secretary, ISNM.