

NANOBIOTECK – 2017

6th – 8th December, 2017
KTDC – Samudra, Trivandrum

DAY 1

6th December, 2017

REGISTRATION - 08:30 AM ONWARDS

09:00 AM - 11:00 AM

Pre-Conference Workshop

09:00 AM – 10:30 AM	Management and Communication of Knowledge - Targeting High Impact Journals <i>- Supported by Springer Nature</i>
10:30 AM - 10:50 AM	ACS Publications for you <i>- Deeksha Gupta</i>

10:50 AM – 11:15 AM

TEA BREAK

11:15 AM - 12:30 PM

Session I

**Pre-Conference Deliberations
NanoProducts**

Chair – Dr. Alok Adholeya, Director, TDNBC

Convener – Dr. Ambarish Ghosh, Rapporteur – Dr. Ravikrishnan

11:15 AM – 11:30 AM	Nano products and /Challenges in converting laboratory research leads into an application and commercialization <i>- Dr. Dhananjay K Tiwary, DBT, Govt. of India</i>
11:30 AM – 11:45 AM	Indian Innovation Support system form Idea to product commercialization <i>- Prof. Rohit Srivastava, IIT – Bombay</i>
11:45 AM – 12:00 PM	Path for laboratory to start-up & knowledge to wealth – Learning from Indian Innovation Ecosystem <i>- Dr. Vipin Kumar, Director, NIF</i>
12:00 PM – 12:15 PM	Receipe for successful science entrepreneurship <i>- Dr. Praveen K. Vemula, InStem</i>

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12:15 PM – 12:30 PM	<p>PANEL DISCUSSION: NanoProducts- Way forward for innovation and commercialization of Nano enabled Products</p> <p>Chair: Dr. Alok Adholeya, Director, TDNBC</p> <p>Panelist: Session Speakers and Dr. Ambarish Ghosh - IISc, Prof. Manzoor - AIMS, Dr. Ashok Kumar - IIT-Kanpur, Dr. Amitava Pramanik - Hindustan Unilever,</p> <p>Discussants: from the audience</p>
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12:30 PM - 01:30 PM

LUNCH

01:30 PM - 04:00 PM

INAUGURAL EVENT

01:30 PM - 01:35 PM	Welcome Remarks - Prof. Y. K. George, IISER
01:35 PM - 01:40 PM	Remarks about Nanobioteck - 2017 (DBT) - Dr. Dhananjay Tiwary, Joint Director, DBT
01:40 PM - 01:45 PM	Remarks about Nanobioteck - 2017 (ISNM) - Dr. Amit Kumar Dinda, General Secretary, ISNM
01:45 PM - 01:50 PM	Vision of ISNM - Prof. Y. K. Gupta, President, ISNM
01:50 PM - 02:00 PM	Presidential Speech - Prof. K. N. Ganesh, Director, IISER - Thirupathy
02:00 PM - 02:05 PM	Lamp Lighting by Dignitaries
02:05 PM - 02:20 PM	<p>Felicitation</p> <p>Prof. V. Ramakrishnan, Director, IISER - TVM</p> <p>Dr. Jagadeesh Kumar, VC, JNU</p> <p>Prof. Randeep Guleria, Director, AIIMS</p> <p>Prof. Y. K. Gupta, President, ISNM</p> <p>Dr. T. Rajkumar, ACI, Chennai</p> <p>Dr. Rajiv Sharma, DST</p> <p>Dr. Suchita Ninawe, DBT</p>
02:20 PM - 02:30 PM	Release of Nanosafety Guideline
02:30 PM - 02:40 PM	Release of Virtual Platform - Nanobiotech@DBT
02:40 PM - 02:45 PM	Introducing the Speaker - Prof. K. N. Ganesh, Director, IISER - Thirupathy

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02:45 PM - 03:30 PM	Inaugural Lecture - Prof. Paul Weiss, UCLA, USA
03:30 PM - 03:35 PM	Vote of Thanks: Dr. Reji Varghese

03:35 PM - 04:00 PM

TEA BREAK

04:00 PM - 06:30 PM

PLENARY SESSION

Chairman: Prof. Jagadeesh Kumar, VC, JNU

Convener: Dr. Dhananjay Tiwary, Rapporteur - Dr. Rupesh Chaturvedi

04:00 PM - 04:30 PM	Tissue Nanotransfection: In Vivo Tissue Reprogramming in Rescue of Injured Tissue Prof. Chandan K. Sen, Ohio State University, USA
04:30 PM - 05:00 PM	Self-Assembly of Dynamic DNA Nanostructures Prof. So-Jung Park, Ewha Womans University, Korea
05:00 PM - 05:30 PM	Semiconductor Quantum Dots for Single-molecule Detections in Living Cells: Challenges and Progress Prof. Biju Vasudevan Pillai, Hokkaido University, Japan
05:30 PM - 06:00 PM	Plenary Talk IV – Nanostructured Tissue Engineering Scaffolds – Controlling Cell Functions without Growth Factors Prof. Thomas Webster, Northeastern University, USA
06:00 PM - 06:30 PM	Interaction and Discussion

6:30 PM

Reception

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DAY 2

7th December, 2017

07:30 AM – 08:30 AM

Meet the Scientific Leaders & Policy Makers

Convener	Dr. Dhananjay Tiwary, DBT
Leaders	Prof. Jagadeesh Kumar, VC, JNU Prof. Randeep Guleria, Director, AIIMS Prof. Y. K. Gupta, President, ISNM Prof. A. K. Dinda, Gen. Sccretary, ISNM Dr. Rajeev Sharma, DST Dr. Madhan Mohan, DBT Prof. George Thomas, IISER - TVM

09:00 AM - 11:00 AM

Session II

NanoDiagnostics

Chair: Prof. Randeep Guleria, Director, AIIMS

Convener – Prof. Amit Dinda, Rapporteur - Dr. Jayashree RS

PLENARY TALK 09:00 AM – 09:30 PM	Nano-devices for molecular sensing and biomedical applications - Prof. Chia-fu Chou, Academia Sinica, Taiwan
INVITED TALK 09:30 AM – 09:50 AM	Nanobiosensors – Business analysis and Challenges in commercialization - Dr. Ravi Kumar, CEO, Xcyton, Hyderabad
INVITED TALK 09:50 AM – 10:10 AM	Nano-enabled drug delivery system - mapping oppurtunities for innovations - Prof. Shanti Nair, AIMS, Kochi
SNAPSHOT PRESENTATION 10:10 AM – 10:30 AM (05 Min Each)	Outcome of Indian efforts on NanoDiagnostics <ul style="list-style-type: none">• Detection of apple scab – Dr Gopaljee Jha, NIPGR• Detection of Injury – Dr Anandita Roy, IIT Hyderabad• Detection of Mushroom Toxin – Dr Robin Boro, Assam• Detection of biomarkers for Prostrate Cancer – Dr. Amit Dinda, AIIMS
10:50 AM – 11:00 AM	PANEL DISCUSSION Chair: Randeep Guleria, Director, AIIMS Panelist: Session speakers Discussants: from the audience

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11:00 AM - 11:30 AM

TEA BREAK

Introducing the Speaker - Dr. Dhananjay Tiwary

11:30 AM - 12:00 PM

Driving Nanobiotech led innovations - An Institutional perspective
Prof. Ram Gopal Roa, Director, IIT - Delhi

12:00 PM - 12:30 PM

Flipping the way we train the next generation scientists
Prof. Arun Chattopadhyay, IIT - G

12:30 PM - 01:15 PM

LUNCH

01:30 PM - 03:30 PM

Session III

NanoSafety

Chair - Prof. Y. K. Gupta, HoD, Dept. of Pharmacology, AIIMS

Convener – Prof. Tapas Kundu , Rapporteur – Prof. Suresh Rayala

PLENARY TALK
01:30 PM – 02:15 PM

Drug Products Containing Nanomaterial: Regulatory Science Perspective

- Dr. Anil K Patri, Director, US-FDA, Nanosafety

INVITED TALK
02:15 PM – 02:35 PM

Regulatory framework for Nano products and processes –
Positioning India in Global perspective

- Prof. Amit Dinda, AIIMS, New Delhi

INVITED TALK
02:35 PM - 02:50 PM

NanoSafety for new therapeutics

- Dr. Rajkumar, ACI, Chennai

02:50 PM – 03:30 PM

PANEL DISCUSSION

Chair: Prof. Y. K. Gupta, HoD, Department of Pharmacology,
AIIMS

Panelist: Session speakers

Discussants: from the audience

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03:30 PM - 05:15 PM

Session IV

NanoCrystals

Chair: Prof. George Thomas, IISER - Trivandrum

Convener – Reji Varghese , Rapporteur – Indrajit Roy

PLENARY TALK
03:30 PM - 04:00 PM

The age of nanobiotics: Inhibiting micro-organism growth without antibiotics

- Prof. Thomas Webster, Northeastern University, USA

INVITED TALK
04:00 PM - 04:15 PM

Nano-enabled imaging agents for biomedical applications-
Business space and Current Challenges

- Dr. Anil Mishra, INMAS, New Delhi

INVITED TALK
04:15 PM - 04:30 PM

Engineering the nanomaterials for theranostics & real time
molecular tracking

- Prof. Sudipto & Sandanaraj S. Britto, IISER - Pune

**SNAPSHOT
PRESENTATION**
04:30 PM - 04:45 PM
(05 Min Each)

Outcome of Indian efforts on NanoCrystals

- Nanocrystals for Cancer Therapy – *Prof. Amlesh Seth, AIIMS, Delhi*
- Nanocrystals for Bioimaging– *Prof. Manzoor K, AIMS, Kochi*
- Repurposing the Drug - *Prof. Uma Kumar, AIIMS, Delhi*

04:45 PM – 05:15 PM

PANEL DISCUSSION

Chair: **Prof. George Thomas, IISER - Trivandrum**

Panelist: **Session speakers**

Discussants: **from the audience**

05:25 PM - 05:45 PM

Discussion on Nature - Nano

Pratik Roy, Nature - Nano

06:00 PM – 07:30 PM

Poster Session

Jury

Prof. Thomas Webster

Dr. Anil Patri

Prof. Chandan Sen

Dr. T. Rajkumar

Dr. Rajiv Sharma

Prof. George Thomas

7:30 PM

Networking Dinner

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DAY 3

8th December, 2017

07:30 AM - 08:30 AM

Meet the Professors

09:00 AM - 11:00 AM

Session V

NanoVehicles

Chair - Prof. Chandan Sen, OSU, USA

Convener – Dr. Mahesh Hariharan, Rapporteur – Dr. Neetu Singh

INVITED TALK 09:00 AM – 09:25 AM	Targeting lymphatics – Challenges and Opportunities <i>- Prof Amit Dinda, AIIMS, New Delhi</i>
INVITED TALK 09:25 AM – 09:45 AM	Novel nano-vehicles and implants for Ocular drug delivery <i>- Prof. D. Katti, IIT – Kanpur</i>
INVITED TALK 09:45 AM – 10:05 AM	Bioinspired functional nano-materials for bone and liver regeneration <i>Prof. Ashok Kumar, IIT – Kanpur</i>
SNAPSHOT PRESENTATION 10:05 AM – 10:30 AM (05 Minutes Each)	Outcome of Indian efforts on NanoDiagnostics <ul style="list-style-type: none">• Delivery of drugs to brain – Prof. Tapas Kundu, JNSCAR, Bangalore• Delivery of drugs to CML – Prof. Manzoor K, AIMS, Kochi• Delivery of drugs to Kala- Azar – Prof. A. K. Dinda, AIIMS, Delhi• Delivery of drugs to lungs – Prof. Padmadevarajan, ICT, Mumbai• Delivery of drugs to breast cancer – Prof. Gopal Kundu, NCCS, Pune
10:30 PM – 11:00 AM	PANEL DISCUSSION Chair: Prof. Chandan Sen, OSU, USA Panelist: Session speakers Discussants: from the audience

11:00 AM - 11:30 AM

TEA BREAK

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11:30 AM - 01:30 PM

Session VI

NanoScaffolds

Chair - Prof. Prabha Nair, SCTIMST Convener – Annie Abraham, Rapporteur – Dr. Jayashree RS	
PLENARY TALK 11:30 AM – 12:00 PM	Nanoscaffolds for Wound Management – Innovations & Challenges <i>- Prof. Chandan Sen, OSU, USA</i>
INVITED TALK 12:00 PM – 12:20 PM	Advances in nano-enabled cosmoceutics – an Industrial perspective <i>- Dr. Amitava Pramanik, Hindustan Unilever – Bangalore</i>
SNAPSHOT PRESENTATION 12:20 PM – 12:45 PM (05 Min Each)	Outcome of Indian efforts on NanoScaffolds <ul style="list-style-type: none">• Nanoscaffolds for Bone – Dr. Biman Mandal, IIT - G• Nanoscaffolds for Skin – Dr. N. C. Misra, IIT – Roorkee• Nanoscaffolds for Brain – Dr. Manzoor K, AIMS, Kochi• Nanoscaffolds for Dentistry – Dr. Aasheesh Srivastava, IISER – Bhopal• Nanoscaffolds for Wound – Prof. Veena Kaul, IIT - Delhi
12:45 PM – 01:15 PM	PANEL DISCUSSION Chair: Prof. Prabha Nair, SCTIMST Panelist: Session speakers Discussants: from the audience

01:15 PM - 01:45 PM

Award Ceremony & Concluding Remarks

01:45 PM - 02:30 PM

Lunch