

राष्ट्रीय प्रौद्योगिकी दिवस -2021 | National Technology Day-2021

Celebrated on 11.05.2021 at Centre of Biomedical Research (CBMR), Lucknow (An Autonomous Research Centre of the Govt. of Uttar Pradesh)

National Technology Day is celebrated every year in India on May 11 to commemorate the scientific and technological achievements of Indian scientists and engineers. The theme for this year's National Technology Day is **"Science and Technology for a Sustainable Future"**. During the ongoing pandemic times, the scientific discoveries and technological advancements altogether have played a strategic role to save human lives through providing healthcare solution in terms of medical devices for the management of severe of COVID-19 patients, timely and large-scale production of efficient and safe vaccines for Indian population or inventing medical instruments for generating artificial oxygen for patients counting their breaths.

CBMR, Lucknow celebrated this important day on Tuesday (11th May, 2021) by organizing a special lecture by Dr. Rohit Srivastava, The Head and Professor of the Department of Biosciences and Bioengineering, Indian Institute of Technology (IIT), Bombay. He delivered his lecture on **"Affordable Healthcare for India"**. The lecture was attended by all CBMR research students and CBMR research scientists. During his lecture, Prof. Rohit shared his experience of translating the basic lab discoveries into affordable medical devices. Prof. Rohit nicely demonstrated how basic fundamental science backed innovative technologies can help common man in getting affordable diagnostics and therapeutics. This included affordable technologies for blood chemistry, bio-absorbable bone screws, biodegradable sponges for wounds, microneedle patch and pump for transdermal drug delivery etc. Further, he emphasized on promoting interdisciplinary collaborations among medical doctors, clinical-researchers, biomedical scientists and engineers for translating fundamental scientific and technological discoveries into innovative devices for the benefit of society. Overall, the activity reinforced the researchers that Atmanirbhar Bharat Abhiyan (or Self-reliant India Mission) –which is now the dream of every Indian- cannot be even imagined without bringing science and technology together to serve the humanity. Pursuing efforts in this direction, it has been decided to invite school pupils and graduate/post students at CBMR for inculcating scientific temperament and inspiring the young generation to pursue a career in science.

Microneedle Patch and Pump for Transdermal Drug Delivery

Concept

User interface, Dosing scale, Microneedles, Drug cartridge, Front view, Side view

Microneedle device, Human skin

A, B, C, D

Participants: You, Rohit Srivastava, Neeraj Sinha, Prahlad Seth, Rohlee Sharma, Ashish Gupta, Anil Balapure, CBMR Lucknow, Rishi Shanker, Dinesh Gupta, Dharmendra Tiwari, SK Abu, Biswajit Sen, Devlina Ghosh, Syed Masood Hu..., Jaideep Saha, Disha Drishti Frei..., Biswanath Maity, Amit Mondal, Archit Dhawan, Anshita Singh, SAYAN DEY, Abhishek Sengar, Buddhadeb Chatt...