



DEPARTMENT OF PHARMACEUTICS, INSTITUTE OF PHARMACY, NIRMA UNIVERSITY

In association with
CONTROLLED RELEASE SOCIETY INDIAN CHAPTER

organizes

One Day National Webinar on “NANOTECHNOLOGY IN HEALTHCARE: OPPORTUNITIES AND CHALLENGES”

October 28, 2021
[Thursday]

ORGANIZED BY

**Department of Pharmaceutics
Institute of Pharmacy, Nirma University**

S.G. Highway, Ahmedabad – 382481, Gujarat, India

Website: <https://pharmacy.nirmauni.ac.in/>

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ABOUT CONTROLLED RELEASE SOCIETY - INDIAN CHAPTER

Controlled Release Society (CRS Inc.) with over 4000 members worldwide is an international organization for the promotion and development of Novel Drug Delivery Systems, with headquarters in Minneapolis, Minnesota, the USA, and liaison offices in Geneva, Switzerland, and Kawasaki, Japan.

The Indian Local Chapter of Controlled Release Society (CRSIC) was established in 1994 with headquarters at PERD Centre, Ahmedabad, and regional office at SciTech Centre, Jogeshwari West, Mumbai.

CRSIC has been rated as one of the Best & Most Active chapters amongst the 17 local chapters of CRS. It Offers Opportunities for business collaborations with technology-driven pharmaceutical manufacturers and allied industries.

CRSIC encourages students and young scientists to participate and present their research work at national and international platforms. CRSIC aims to unite pharmaceutical, chemical, and biomedical scientists to advance the science of Controlled Release, towards the betterment of global healthcare. The mission of CRSIC is to promote industry-academia networking, create awareness, and encourage translational research in India.

ABOUT NIRMA UNIVERSITY

Renowned industrialist and philanthropist Dr Karsanbhai K Patel, the founder of the Nirma Group of Industries, established the Nirma Education and Research Foundation (NERF) in the year 1994 with a vision to promote higher education and provide excellent educational facilities to the youth in India. In 1995, Nirma Institute of Technology – affiliated to Gujarat University – was established by the NERF. It was followed by the establishment of Nirma Institute of Management in 1996.

In the year 2003, the Government of Gujarat approved the proposal of the NERF to found the Nirma University, Ahmedabad. Hence, the Nirma University was established under a special Act passed by the Gujarat State Legislative Assembly. The University Grants Commission (UGC) duly recognized the University under the Section 2 (f) of the UGC Act.

University spread across the sprawling lush green 115-acre campus, the University has a host of institutes, departments and centers, including Institute of Technology, Institute of Management, Institute of Pharmacy, Institute of Science, Institute of Law, Institute of Architecture & Planning, Institute of Commerce, Department of Design, Faculty of Doctoral Studies and Research, Centre for Continuing Education, Centre for Entrepreneurship, Centre for Advanced Instrumentation and Centre for Robotics and Automation. These institutions offer numerous undergraduate, postgraduate and doctoral programme. Apart from these, the University also offers several certificate and diploma programme.



ABOUT INSTITUTE OF PHARMACY

Institute of Pharmacy was established in the year 2003 under Nirma University with the aim of developing able professionals in the field of pharmaceutical sciences. In a short span of time, it has become one of the leading institutions in the country, offering pharmaceutical education at the undergraduate, postgraduate, doctoral and postdoctoral level.

Institute of Pharmacy has been ranked 20th in India Ranking 2021 by Ministry of Human resource Development, (MHRD), Government of India in its National Institutional Ranking Framework (NIRF). Institute of Pharmacy is ranked FIRST in GSIRF-2021 rankings by Govt. of Gujarat with overall CGPA 4.8 from 5 and Five Stars Rating.

The Institute offers B. Pharm, M. Pharm, Full time and External PhD and postdoctoral programme. The B. Pharm programme is accredited by National Board of Accreditation for three years (2019-2022). The Institute has adopted Outcome Based Education (OBE) to further advance the professional knowledge, inculcate employability skills in addition to development of character and social responsibility.

To achieve the same objectives, vision and mission of the institute were also defined in line with the University's vision and mission. The Institute has also defined its programme educational objectives and programme outcomes. The Institute has more than 9.0 crore rupees grant from government agencies and has collaboration with various research centers, industries and institutes in India and abroad.

The Institute houses state-of-the-art instruments, like Supercritical Fluid Extractor and Chromatogram, HPTLC, HPLC, MPLC, GC, Fluorescence Spectrometer, Raman Spectrometer, UV-VIS- NIR Spectrophotometer, FTIR, DSC, ELISA, PCR, Electrophoresis, Texture Analyser, Automated Dissolution Apparatus, Extruder-Spheronizer, Multiple Diffusion Assembly, High Pressure Homogenizer, Particle Size Analyser, Microwave Synthesizer, Stereotaxic apparatus with Micro dialysis, etc.

The Institute also has the software, like iWorx, eCTD, Design Expert, etc. The Institute has a two-storied animal house facility registered with the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA), Government of India. Besides, there is also a medicinal plant garden "Nirma Herbal Wealth", having an area of 3356.5 sq m with around 150 genera and 500 plants.



ABOUT DEPARTMENT OF PHARMACEUTICS

Pharmaceutics department under Institute of Pharmacy, a multidisciplinary science is associated with the development, production, and characterization of dosage forms/drug delivery as well as the disposition and action of drugs in the body. Department of Pharmaceutics offers courses at undergraduate, postgraduate and doctoral levels. The department has well designed and equipped laboratories for imparting knowledge and hands on training for formulation development. It also has machine room with manufacturing and testing equipment and high-tech aseptic laboratory with class 10000 facilities. Students are trained towards the basic concepts to the latest developments in pharmaceutics and pharmaceutical technology as per the need of industry. The department works towards promoting a strong multidisciplinary, team-based approach to drug delivery, embracing a variety of activities in the broad area of drug formulation and delivery. The faculty members and students at the department contribute to research through funded projects, industrial projects, consultancy, etc. to formulate novel formulations.

ABOUT WEBINAR

Healthcare today is evolving dynamically that has often demanded innovation driven interventions. The curiosity to explore nanotechnology-based innovations has been the center of focus for its applications in healthcare industry. Several nanotechnology-based products have been used in pharmaceutical sectors with applications ranging treatment to theranostics. It has not only been explored as therapeutics carriers but also in regenerative medicines. Today the rapid surge in research of metallic nanoparticles have shown tremendous potential in cancer treatment where single approach can serve multiple purposes. The COVID-19 pandemic had urged for rapid screening and outcomes which was served by the use of gold based rapid antigen kits. The challenges facing nanomedicines is its long-term stability, large scale production and cost. The challenges provide path for demand driven opportunities and recent pandemic has opened up vast opportunities for development of nanotechnology-based vaccines for better efficacy. Nano-medicine also serves to provide a platform of opportunities in therapy, diagnosis and imaging, precision and controlled medicine. The webinar on “Nanotechnology in Healthcare-Challenges and Opportunities” features plenary and invited lectures by eminent scientists. It also provides a platform for researchers and students across India to showcase their ideas, research and innovations which is the need of an hour in this rapidly changing healthcare system.

CRS-IC EXECUTIVE COMMITTEE [2021-23]

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Assistant Professor in Pharmaceutics, NIPER-Guwahati

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Professor of Pharmaceutics & Pharmaceutical Technology, Maliba Pharmacy College, Surat

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Manager, Formulation R & D-Complex Injectables, Sun Pharmaceutical Industries Ltd, Vadodara



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**Department of Pharmaceutics, Institute of Pharmacy,
Nirma University**

CHIEF GUEST - INAUGURAL FUNCTION



Inaugural Address

Prof. Dulal Panda

Director

National Institute of Pharmaceutical Education & Research (NIPER),
SAS Nagar, Mohali, Punjab, India.

KEY NOTE ADDRESS



Microneedle Systems for Nanomedicine Delivery

Prof. Ryan F. Donnelly

Chair in Pharmaceutical Technology, Queen's University Belfast

Director of QUB's interdisciplinary research programme –

Materials & Advanced Technologies for Healthcare (MATCH)

Medical Biology Centre, U.K.

SPEAKERS



Nanosilver: The Magic Bullet for Challenging Infections

Prof. Sanjay Garg

Professor of Pharmaceutical Science

UniSA: Clinical and Health Sciences, University of South Australia

City West Campus, HB6-11, Adelaide, SA, Australia.



Pharmaceutical Technology and its Roles in Precision Medicine Development

Prof. Tin Wui Wong, PhD

Professor

Non-Destructive Biomedical and Pharmaceutical Research Centre, Smart Manufacturing
Research Institute, Universiti Teknologi MARA, Selangor, Malaysia.



Nanoformulation strategies for improved patient compliance

Dr. Ajay J. Khopade

Vice President-Formulations (Non-Oral)

Sun Pharmaceutical Industries Limited

Vadodara, Gujarat, India.



Nanotechnology in diagnosis, prophylaxis and treatment: Case studies

Prof. Vandana B. Patravale

Professor of Pharmaceutics

Department of Pharmaceutical Sciences and Technology

Institute of Chemical Technology, Mumbai, Maharashtra, India.



Silica nanoparticles for overcoming biological barriers for drug delivery

Dr. Amirali Popat

Director of Research

School of Pharmacy, The University of Queensland

Brisbane, Australia.

CHIEF GUEST - VALEDICTORY FUNCTION



Concluding Remarks

Prof. Yashwant Pathak

Professor and Associate Dean for Faculty Affairs,

USF Health Taneja College of Pharmacy,

University of South Florida, Tampa, USA

CALL FOR PAPER

Abstracts should not exceed the length of one A4 page. The abstracts should be structured and contain title (Top of the paper, centered, bold, all capital, Times New Roman, 14), name of authors (last name followed by initials, name of presenting author to be underlined, Times New Roman, 10), complete address of the institution including the state, country and pin-code (Times New Roman, 10), Email ID of the presenting author, Keywords (not more than 5, Times New Roman, 10), aims, objectives, methodology, results and discussions, conclusions, references and acknowledgments. Use of graphs, tables and figures are strongly recommended. Leave a 1-inch margin on all four sides of the abstract. Abstracts not abiding to the above-mentioned formatting guidelines will be immediately rejected and not considered for the review process.

ONLY RESEARCH WORK RELATED TO THEME WILL BE CONSIDERED

- Submit Abstract on <https://bit.ly/CRSIC-Nirma-Abstract> on or before October 20, 2021.
- Selection of abstract will be informed by October 22, 2021.
- Selected candidates have to submit a 'Video Presentation' by October 24, 2021.
- Best Five videos will be presented during the conference.

GUIDELINES FOR VIDEO PREPARATION FOR SELECTED ABSTRACTS

- Total number of slides should be between 10-15.
- Allotted time for Presentation: 5 min
- In view of blind evaluation of video presentations, all the participants are informed to keep only the title and name of the presenting author on the first slide. Other information such as co-author's name(s), Affiliation etc. must not be provided.
- The presentation should include Introduction, Rationale, Methodology, Result and Discussions, Conclusion and References (Vancouver style).
- To record video presentation using FREE Zoom meeting account refer to online tutorial on the following link: <https://www.youtube.com/watch?v=WmMSXOQVQs4>
- Upload the video on the following link: <https://docs.google.com/forms/d/e/1FAIpQLSdhYijsgeDeBcj3-TMM2N9QVuGUzUfCR6G30A1ZZd8Bsw5-q/viewform>

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REGISTRATION

- No Registration fees for members of CRS-IC. However, Members interested for attending the Event have to Register online.
- All presenting authors must register for National Webinar.
- All presenting authors must be member of CRS-IC.
- To be member of CRS-IC, Refer : <https://crsic.org/membership/>

Register for Event on <https://bit.ly/CRSIC-Nirma-Register> on or before October 24, 2021

REGISTRATION FEE [for Non CRSIC Member only]

Category	Fees (INR) Including All Taxes
Students	100
Academician	200
Industry Personnel	300

Payment by Cheque / Demand Draft

Send Cheque / Demand Draft

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MICR Code: 380126029
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After Payment kindly **send FOLLOWING DETAILS** by Email to crsic.nirma@nirmauni.ac.in

And also fill the details and upload the image of transaction on online registration form.

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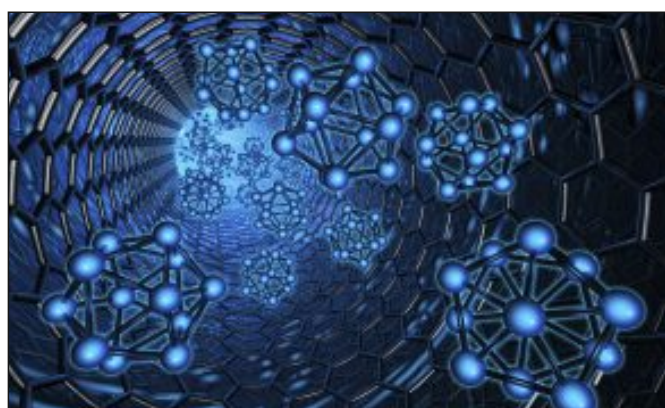
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For further queries, contact CRSIC.Nirma@nirmauni.ac.in



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