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Nirma University  
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Prof. Manjunath D. Ghate  
Prof. Jigna S. Shah  
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# NIPiCON-IPS 2022

6<sup>th</sup> Nirma Institute of Pharmacy International Conference  
Jointly organized with Indian Pharmacological Society  
February 17-19, 2022

*"Emerging Opportunities and Challenges in Pharmacology  
and Pharmaceutical Sciences for Drug Discovery  
and Healthcare Innovations"*



In association with



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## About Nirma Institute of Pharmacy International Conference (NIPiCON)



The pharmaceutical sciences are a group of interdisciplinary field and profession that are involved with the design, discovery, development, delivery and disposition of drugs. Over the years, pharmaceutical scientists have been instrumental in discovering and developing innovative drugs that can cure various diseases and improve the quality of life.

Nirma Institute of International Conference (NIPiCON) was initiated in year 2013 to offer a common platform for academicians, researchers, industrialists, clinical practitioners and young budding pharmacists to share their ideas, knowledge and research findings which finally emerge with new concepts using interdisciplinary approach in the pharmaceutical field. In the year 2020, the 5th International Conference, NIPiCON 2020 was organized in collaboration with ISCB as ISCBC-NIPiCON 2020 with an aim to provide knowledge sharing experience in the area of "Integrating Chemical, Biological and Pharmaceutical Sciences for Innovations in Health Care."

Pharmaceutical innovation is a creative process that helps in the application of knowledge and creativity for discovering and developing new medicinal products that generate improvement in patient health. Interdisciplinary research integrates information, concepts and theories of two or more different specialized disciplines for better scientific understanding and solving of complex challenging problems. Interdisciplinary approach in pharmaceutical research can resolve real health care problems, give a different perspective to research area and provide answers to complex problems of healthcare/pharmaceutical field. NIPiCON provides an open forum for the academicians, researchers and professionals of pharmaceutical and healthcare sectors to enrich their knowledge in the area of healthcare innovations for getting better product using interdisciplinary research.



## About Indian Pharmacological Society (IPS)

The Indian Pharmacological Society (IPS) was founded in 1969 at Patna with main objectives to integrate pharmacology in medical education and to work for all round development of pharmacology. IPS is ranked among the five largest pharmacological societies of the world. It has a network of branches. They are also actively involved in promoting awareness of recent developments in frontal areas of science as well as organise symposia, conferences and special lectures in the discipline of Pharmacy and Pharmacology.



## About NIPiCON-IPS 2022:

Gujarat is at the forefront of the growth in the pharmaceutical industry in India. Accounting for nearly 42 percent share of India's pharmaceutical turnover, 22 percent of its drug exports and 20 percent of its chemicals output, Gujarat's pharmaceutical industry has evolved into an innovation-driven, knowledge-focused industry. Ahmedabad, being the largest city in the state of Gujarat, houses several established companies which have operations in the world's major pharma markets. It will be a great opportunity for scientists, professors, researchers, and students to connect with industry experts during NIPiCON-IPS 2022 conference in Ahmedabad.

In February 2022, 6th International Conference, NIPiCON 2022 will be jointly organized with Indian Pharmacological Society (IPS). This aims to provide a common platform for dissemination of multidisciplinary research on the theme of "Emerging Opportunities and Challenges in Pharmacology and Pharmaceutical Sciences for Drug Discovery and Healthcare Innovations."

The conference intends to provide networking opportunities for different stakeholders of the modern-day healthcare sector i.e., industrialists, physicians, pharmacologists, biotechnologists, and other allied professionals. The conference will feature expert discussions on the emerging trends and corresponding opportunities and challenges for the development of innovative solutions related to healthcare. Interdisciplinary research integrates information, concepts and theories of two or more different specialized disciplines for better scientific understanding and solving of complex challenging problems. The conference will provide an opportunity for development of interdisciplinary research that integrates pharmacology and pharmaceutical sciences. The conference will put together different minds from several fields including clinicians for encouraging pharmacological discoveries and inventions for the upliftment of patients' quality of life.

The conference features plenary and invited lectures from eminent national and international researchers from varied disciplines of healthcare, medical and pharmaceutical field. The conference will also provide researchers and students to share their research developments and innovative ideas by means of deliberations, discussions as well as oral and poster presentations.



## About Nirma University



Nirma University, Ahmedabad has been established in the year 2003 as a statutory university under the Gujarat State Act by the initiative of the Nirma Education & Research Foundation (NERF). The University is a value-driven, research-oriented and student centered not-for-profit institution. Within a short period of its existence, it has emerged as a nationally renowned higher education institution. The University and its constituent institutes are highly ranked by different ranking agencies. The University is recognized by the University Grants Commission (UGC) under section 2(f) of the UGC Act. The achievement of 'A' grade by NAAC by National Assessment and Accreditation Council (NAAC) in November, 2015 once again manifests that the University is committed to Quality Teaching-Learning and Research and is accomplishing the promise by making it the first private university of Gujarat to achieve such honour. Nirma University is a member of the Association of Indian Universities (AIU) and the Association of Commonwealth Universities (ACU). The University has SIRO (Scientific and Industrial Research Organization) recognition from DSIR, Department of Science and Technology, Government of India. Dr. Karsanbhai K. Patel, Chairman, Nirma Group of Companies and Chairman, NERF is the President of the University. Nirma University consists of Faculty of Engineering and Technology, Faculty of Management, Faculty of Pharmacy, Faculty of Science, Faculty of Doctoral Studies & Research, Faculty of Law, Faculty of Architecture and Planning, Faculty of Commerce and Department of Design. The graduate, post graduate, doctoral and post-doctoral level programmes offered by these faculties and planning are rated high by industry, business magazines and by the students. Apart from these, the University also offers several certificate and diploma programmes. Innovation, excellence and quality are the driving forces on the campus and this has translated the vision of these institutions into a reality over a short period of time. The 125-acre sprawling green campus with serene picturesque landscape provides refreshing environment for intellectual and creative activities. Today the campus vibrates with not only world class curricular activities but also with myriad activities like international conventions symposia, conferences, student competitions, conclaves, short-term industry relevant programs, cultural activities, etc. Centre for Advanced Instrumentation (CAI) is sophisticated instrumentation facility with high-end instruments that provides a platform to students to develop their skills in handling latest instruments and is also helpful for pursuing research activities. The facility helps them to carry out cutting edge interdisciplinary research of national and international importance.



## 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 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). The institute received 1st rank by GSIRF 2020 with Five Star Rating. The Institute offers B. Pharm, M. Pharm, Full time and External Ph.D. The Institute has adopted Outcome Based Education (OBE) to further advance the development of professional knowledge, inculcate employability skills in addition to development of character and social responsibility. To achieve the same objective, vision and mission of the institute was also defined in line with University's vision and mission. The Institute has also framed its programme educational objectives and programme outcomes. The Institute has more than 5.0 crore rupees grant from government agencies and has collaboration with various research centres and industries. 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 Microdialysis, etc. The Institute also has the software, like iWorx, Gold Suit, 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 sqm with around 150 genera and 500 plants. Institute is equipped with Cell Culture Laboratory and Aseptic Laboratory (Class 1000) facilities for advanced research. It also has machine room with manufacturing and testing equipments.





## Organizing Committee

### Chief Patron

Shri K. K. Patel     Dr. Anup Singh

### Convener

Prof. Manjunath Ghate

### Organizing Secretary

Prof. Jigna S. Shah

## Indian Pharmacological Society Executive Committee (IPS-EC)

Dr Shivprakash Rathnam	President
Dr Mira Desai	Vice President
Dr Tapankumar Mandal	Vice President
Dr B Kalakumar	General Secretary
Dr Yogesh Kulkarni	Finance Secretary
Dr Chetana Desai	Secretary International
Prof Avijit Hazra	Secretary Clinical
Dr Ajay Prakash	EC North
Dr Sudha M J	EC South
Dr Ramesh Nirala	EC East
Dr Kamlesh P Patel	EC West
Prof Kavita Gulati	EC Lady Representative
Dr Vetrivelvan S	EC Overseas
Dr B Dineshkumar	Immediate Past President
Dr Bhagirath Patel	Immediate Past General Secretary
Dr Bikash Medhi	Chief Editor, The Indian Journal of Pharmacology



## Advisory Committee

### INTERNATIONAL ADVISORY BOARD:

Dr. Sanjib Bhattacharyya	Pharmaceutical Science and Chinese Traditional Medicine, Southwest University, China
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Dr. Mallikarjun Rao	Manipal College of Pharmacy, Manipal
Dr. Suryakant Gupta	Institute for Plasma Research, Gandhinagar





## International Speakers



**Dr. Balwant Singh Chauhan**  
School of Pharmacy,  
American University of Health  
Sciences, USA



**Dr. Clay Wang**  
Pharmacology and  
Pharmaceutical Sciences and  
Chemistry, USC school of  
pharmacy, USA



**Dr. Devendra Agrawal**  
Biotechnology department,  
Western University of Health  
Sciences, USA



**Dr. Ian S. Haworth**  
Pharmacology, University of  
Southern California, USA



**Dr. Kanan Shah**  
Product Development  
Associate, Alphamed Pty. Ltd.,  
Australia



**Dr. Marco Lucio Lolli**  
Department of Medicinal  
Chemistry, University of Torino  
(UniTO), Italy



**Dr. Nilima Chauhan**  
Department of Biochemistry  
and Molecular Genetics,  
University of Illinois, USA"



**Dr. Raj Sevak**  
Department of Pharmacy  
Practice, University of Pacific,  
USA



**Dr. Sanjay Garg**  
Pharmaceutical Sciences,  
University of South Australia,  
Australia



**Dr. Sanjib Bhattacharya**  
Department of Pharmaceutical  
Science and Chinese  
Traditional, Southwest  
University, China



**Dr. Stephen F. Amato**  
Health Economics,  
North eastern University, USA



**Dr. Vinay Parikh**  
Psychology and Neuroscience  
Professor, Temple University,  
USA



**Dr. Yashwant Pathak**  
College of Pharmacy, University of  
South Florida, USA

## National Speakers



**Dr. A. K. Chakraborti**  
School of Chemical Sciences,  
Indian Association for the  
Cultivation Of Science (IACS),  
Kolkata, West Bengal



**Dr. Alok Dhawan**  
Centre of Biomedical Research,  
Inidan Institute of Toxicological  
Research, Lucknow



**Dr. Anil K Mishra**  
Institute of Nuclear Medicine  
and Allied Sciences (INMAS),  
Delhi



**Dr. Bhusan Patwardhan**  
Ministry of AYUSH,  
New Delhi



**Dr. DK Dubey**  
DRDE, Gwalior,  
Madhya Pradesh



**Dr. Evans Coutinho**  
Dept. of Pharmaceutical  
Chemistry, Bombay College of  
Pharmacy



**Dr. Padma Devrajan**  
Department of Pharmaceutics  
and Technology, Institute of  
Chemical Technology, Mumbai



**Dr. S. S. Sharma**  
National Institute of  
Pharmaceutical Education and  
Research, Mohali



**Prof. Sadhna Sathye**  
Pharmaceutical Sciences and  
Technology, ICT – Mumbai



**Dr. Sanjay Mandhane**  
Pharmacology Department,  
Sun Pharma Advanced  
Research Centre, Baroda



**Dr. Sanyog Jain**  
Dept. of Pharmaceutics,  
National Institute of  
Pharmaceutical Education and  
Research (NIPER),  
Mohali, Punjab



**Dr. Shridhar Narayana**  
Foundation for Neglected  
Disease Research (FNDR),  
Bangalore



**Dr. Srikrishna Gupta**  
Department of Atomic Energy,  
Mumbai

## REGISTRATION FEES



All participants will have to register for the conference. Registration fee is as follows:

Category	Online	Offline (In-person)
(A) Delegate from Academia	INR 2000	INR 4000
(B) Research Student	INR 1500	INR 3000
(C) Delegate from Industry	INR 4000	INR 6000
(D) Accompanying Person	---	INR 3000
(E) Foreign Delegate	USD 300	USD 300
(F) Foreign Research Student	USD 250	USD 250
(G) On spot registration	INR 500 / USD 50 (Additional)	INR 500 / USD 50 (Additional)

### Above charges are inclusive of GST

Attractive discounts are available for group registration from the organization.

### Registration covers

#### Offline:

- Registration fees cover day time hospitality during conference days, proceedings and kit for the registered delegates.
- Participants opting for offline should follow COVID protocol as per GOI guidance

#### Online:

- Registration fees cover access to conference proceedings and certificate.

**Registration fee is non-refundable. However, change in nomination can be permitted only on request.**

**Register online for regular updates of the conference; however, registration will be confirmed on receipt of registration fees.**

## Call For Paper

Abstracts not exceeding 250 words as per the format available on the conference website are invited for inclusion as oral or poster presentations in the conference tracks. Please state the title, author(s), author affiliation and choice of mode presentation (oral/poster). The name of the presenting author must be underlined. Confidential peer-review shall determine acceptance or rejection.

Abstract can be submitted online to [www.nipicon.org](http://www.nipicon.org) on or before December 31, 2021 as per the format available on the conference website. Acceptance shall be communicated by January 17, 2022. Presenting authors have to register themselves for the conference on receipt of acceptance email, if not, the abstract will be cancelled and will not be considered for publication in abstract book. No abstract submission will be accepted on email.

## WHO CAN PARTICIPATE:

Academicians, Researchers, Pharmaceutical Industrial Personnel, Clinical Practitioners, Students (UG, PG, Ph.D.).

## IMPORTANT DATES:

- Last Date for Abstract Submission: 31<sup>st</sup> January 2022
- Intimation of Acceptance of Abstract: 7<sup>th</sup> February 2022
- Last Date for Registration: 10<sup>th</sup> February 2022

## Main Tracks and Sub-Tracks of Conference



### Basic Pharmacology

- Preclinical Evaluation
- PKPD
- Toxicology and Toxicokinetics
- Pharmacogenetics and Pharmacogenomics
- Environmental Pharmacology
- Veterinary Pharmacology

### Clinical Research and Pharmacovigilance

- Clinical research
- Clinical Data Management
- Pharmacoepidemiology and Pharmacovigilance
- Medical Devices and Diagnostic Tools
- Pharmacoeconomics and health outcome research
- Antimicrobial resistance

### Molecular Pharmacology

- Cell Biology Research
- Peptide Therapeutics
- Biotechnology Derived Products
- Biologics and Therapeutics
- Marine Biotechnology and Drug Research
- System Biology specific to Genomics, Proteomics, etc.

### Natural Products Pharmacology

- Phytopharmacology and phytopharmaceuticals in Drug Discovery
- Isolation and Standardization of Phytopharmaceuticals
- Functional Foods and Nutraceuticals
- Herbal Wealth Product Development

### Pharmaceutics and Pharmaceutical Technology

- Pharmaceutics, Pharmacokinetics and NDDS
- Targeted drug delivery System
- Nanotechnology and Material Science
- Bio-nanotechnology and Agricultural Biotechnology Research
- Cosmetics

### Pharmaceutical Chemistry

- Synthetic and Medicinal Chemistry
- Biochemistry, Chemical Biology and Bioinorganic Chemistry
- Structural Biology and Bioinformatics Research
- Green Chemistry Approach in Chemistry

### Pharmaceutical Analysis and Quality Assurance

- Pharmaceutical Analysis of Drug and Related Products
- Quality Control of Pharmaceuticals and Nutraceuticals
- Stability Studies of Pharmaceuticals

### Modern healthcare challenges and opportunities

- Artificial intelligence
- Orphan diseases
- Nuclear Medicine
- Covid 19
- Antimicrobial resistance
- GCP and GLP

For details of online paper submission and registration refer our conference website

<http://www.nipicon.org>