



एक कदम स्वच्छता की ओर



सत्यमेव जयते

Department of Pharmaceuticals
Ministry of Chemicals & Fertilizers, Government of India



HYDERABAD

तारुण्य

National Institute of Pharmaceutical Education and Research

NIPER-HYDERABAD NEWSLETTER

Issue-3, January-June, 2021



सत्यमेव जयते

Ministry of Education,
Government of India



**NATIONAL
INSTITUTIONAL
RANKING
FRAMEWORK
2020**





DIRECTOR'S MESSAGE

I am delighted to present National Institute of Pharmaceutical Education and Research (NIPER) Hyderabad Newsletter - **Tarang**, Issue-3, January-June 2021. The year 2021 has brought fresh energy to the Institute as new faculty members and staff have joined the Institute. This will strengthen our cause for providing quality education, research and at the same time help NIPER-Hyderabad in nation building, as the current times require service to the nation and society at large.

I am also proud of the fact that NIPER-Hyderabad has also introduced M.Tech in Medical Devices, M.S. (Pharm.) in Natural Products, Pharmacoinformatics and Regulatory Affairs from this year onwards. These courses are industry-oriented and will contribute greatly for the industry and academic research.

It is also a matter of great pride that students of NIPER-Hyderabad are proving their mettle in all arenas. Our students are pursuing higher studies in renowned universities of the world. Again, this year 100% students have been placed through campus placements in both national and multi-national pharma companies.

I wish to thank each and everyone specially our students, faculty, staff and Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Govt. of India for contributing to the growth of NIPER-Hyderabad.

- Dr. Shashi Bala Singh



NEW YEAR-NEW START



Dr. Shashi Bala Singh, Director, NIPER-Hyderabad, addressing faculty and students

ENTERING 2021 WITH GRATITUDE AND NEW CHANCE TO CREATE DREAMS

It was a new day and a new dawn for NIPER-Hyderabad. On this occasion of first day of the year 2021, **Dr. Shashi Bala Singh**, Director, gave an enigmatic speech focusing on adoption of new research skills in the upcoming year. Director's talk inspired many young research fellows at the campus towards aiming at creating a better world with new skills and techniques in the field of research. We believe year 2021 embarks a new journey for research and skill development for students at NIPER-Hyderabad.

Dr. Shashi Bala Singh, Director, wished the faculty, students & staff that the New Year 2021 brings joy, love, peace, productivity, positivity and happiness.

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VISIT OF SECRETARY, DEPARTMENT OF PHARMACEUTICALS, TO NIPER-HYDERABAD

Ms. S. Aparna, IAS, Secretary, Department of Pharmaceuticals, visited NIPER-Hyderabad on June 28, 2021. She was received by Dr. Shashi Bala Singh, Director, NIPER Hyderabad. This was followed by a brief presentation by faculty members. She also interacted with the students and visited various R&D facilities in the campus.



PLANTING OF TREE AT CAMPUS

As a positive gesture towards building a green campus **Ms. S. Aparna**, Secretary, DoP, planted a tree in the NIPER-Hyderabad campus and encouraged all to plant more trees as a responsibility towards the nature.



SCIENTIFIC EVENTS



As rightly said Entrepreneurs are future of our country and its progress, a DST sponsored 6 weeks **Technology Entrepreneurship Development Program (TEDP)** was conducted by NIPER-Hyderabad faculty during 01.02.2021 to 19.03.2021. The workshop encompassed of introduction to intellectual property rights followed by brief walkthrough in the field of drug discovery. The course was tailored to develop entrepreneurs in technology development sector of R&D in a structured way. It was a hands-on and task-oriented program.



Department of Pharmacology and Toxicology, NIPER-Hyderabad organized a **5 days hands-on Workshop on Cell Culture Techniques** from 8th - 12th February 2021. The workshop was supported by the Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India under Pharmaceutical Promotion & Development Scheme (PPDS) to impart training and professional development to working pharmacists. The workshop was aimed at sharpening various cell culture techniques like MTT Test, DNA isolation, RNA isolation, cDNA Synthesis/ Agarose gel electrophoresis, RT-PCR, Flowcytometry/ICC, Protein extraction & Estimation, Gel electrophoresis & Coomassie Staining, Gel Transfer and Blotting practical sessions. The workshop received participations from different institutes of various states of India who were trained on various techniques.



NIPER-Hyderabad organized an INDO-EU webinar with **Prof. Jessica Rosenholm**, University of Åbo Akademi, Finland and **Prof. Thomas Rades**, University of Copenhagen, Denmark on March 2, 2021.

Prof. Jessica Rosenholm, University of Åbo Akademi, Finland talked about mesoporous silica nanoparticles for advanced drug delivery & theranostics and Prof. Thomas Rades, University of Copenhagen, Denmark talked about new developments in co-amorphous drug systems.

SCIENTIFIC EVENTS

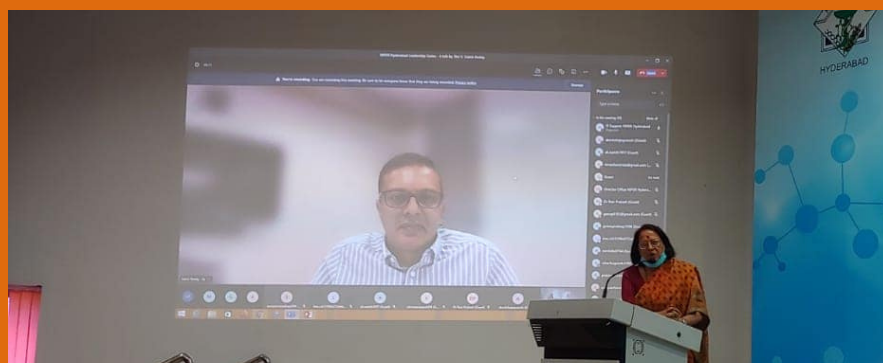


A two-day workshop on **Hands-on Experience on Instrument and Techniques for Nanotechnology Based Drug Delivery** was held at NIPER-Hyderabad, from 22nd to 23rd March 2021. The main objective of this workshop was to build the theoretical as well as practical understanding about nano-based drug delivery, methods of preparation and evaluation of various nanotechnology-based techniques. Around 40 students from different background like B. Pharmacy, M. pharmacy, M.S., B.Sc., M.Sc. and PhD in pharmaceutical and life sciences attended the workshop. The participants were felicitated with the certificate of participation.



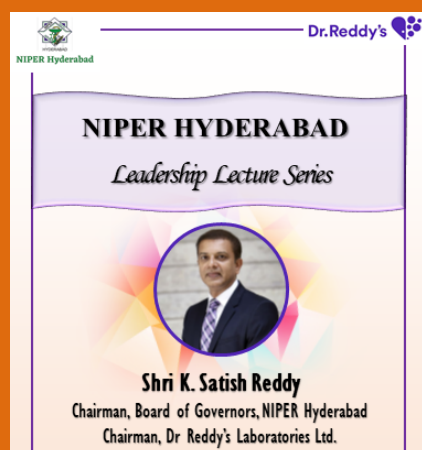
NIPER-Hyderabad also organised a full-fledged **faculty development program** which took place on March 17, 2021. **Prof. Ritu Aneja**, affiliated with Georgia State University interacted with NIPER-Hyderabad faculty in a brainstorming workshop entitled as **Empowering You**.

LEADERSHIP LECTURES

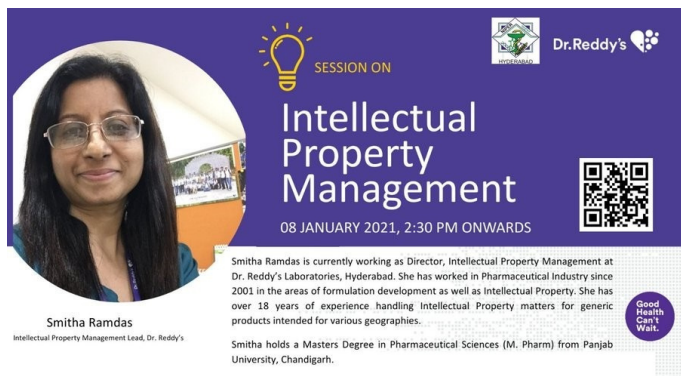


NIPER-Hyderabad organized a series of Leadership lectures. In the series, the first lecture was delivered by **Dr. Jitendra Sharma**, MD & CEO, AP MedTech Zone on Jan 28, 2021.

The second lecture was delivered by **Shri K. Satish Reddy**, Chairman, Board of Governors, NIPER-Hyderabad & Chairman, Dr Reddy's. He delivered a lecture on the need for strengthening Industry-Academia relations during the interactive session with the students and faculty of NIPER-Hyderabad and the interaction organized by NIPER-Hyderabad on March 9, 2021.



GUEST TALKS



SESSION ON
Intellectual Property Management
08 JANUARY 2021, 2:30 PM ONWARDS

Dr. Samitha Ramdas is currently working as Director, Intellectual Property Management at Dr. Reddy's Laboratories, Hyderabad. She has worked in Pharmaceutical Industry since 2001 in the areas of formulation development as well as Intellectual Property. She has over 18 years of experience handling Intellectual Property matters for generic products intended for various geographies.

Dr. Reddy's

Good Health Can't Wait.

Dr. Samitha Ramdas, Director, Intellectual property management at Dr. Reddy's delivered an invited Lecture on **"Intellectual Property Management"** organized by NIPER-Hyderabad on Jan 08, 2021.

Dr. Ritu Trivedi, Principal Scientist from CDRI, Lucknow delivered a lecture on **"Pharmaceutical approaches for treating Osteoarthritis"** organized by NIPER-Hyderabad on Jan 15, 2021.



Talk on Pharmaceutical Approaches for Treating Osteoarthritis

Dr. Ritu Trivedi
Principal Scientist, Department of Endocrinology, Central Drug Research Institute, Lucknow

JANUARY 15, 2021 - 4 PM
JOIN AT:
[HTTPS://QRGO.PAGE.LINK/377NU](https://qrgo.page.link/377NU)

CSIR-CENTRAL DRUG RESEARCH INSTITUTE
COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

HYDERABAD



A webinar on **"Molecules to Therapeutic Discoveries Development of Non-addictive & Safer Pharmacotherapy for Treating Neuropathic Pain"** was delivered by **Dr. Ganesh Thakur**, from NU Bouvé, USA on March 4, 2021.

Dr. Tarun K. Sharma, Senior Research Scientist, THSTI, Faridabad delivered a lecture on **"Harnessing Aptamer Technology for innovations in Biomedical Diagnostics"** organized by NIPER-Hyderabad on April 23, 2021.



Invited Lecture
"Harnessing Aptamer Technology for Innovation in Biomedical Diagnostics"

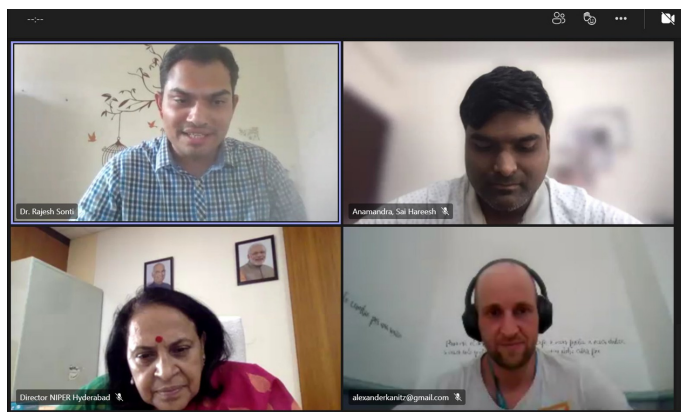


Webinar on Pancreatic cancer pathobiology: Tiny vesicles with mighty roles
June 7, 2021 at 10:00 AM



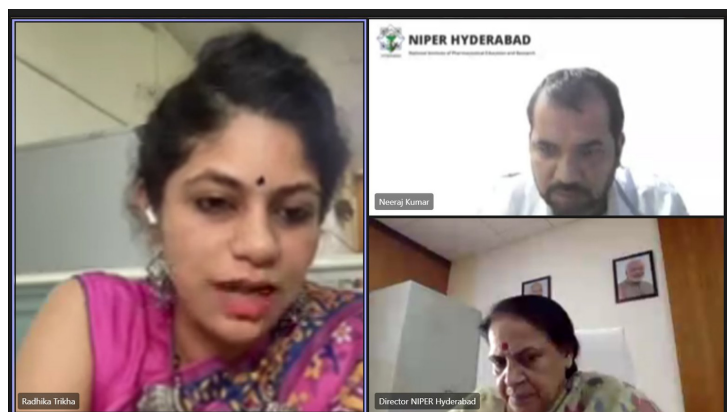
Dr. Girijesh K. Patel, Sr. Research Associate, Texas Tech University Health Sciences Center delivered a webinar organized by NIPER Hyderabad on **Pancreatic Cancer Pathobiology: Tiny Vesicles with Mighty Roles** on June 7, 2021

GUEST TALKS



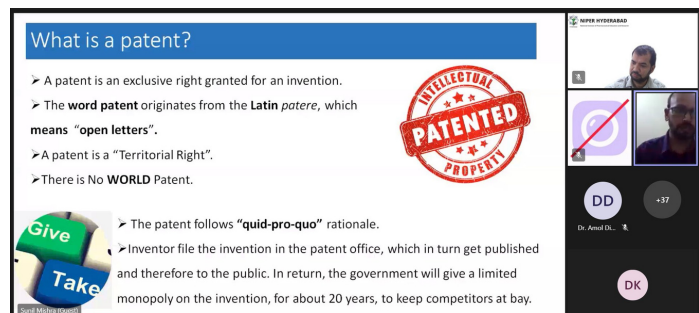
Dr Alexander Kanitz, Scientist/Software Engineer, University of Basel-Switzerland spoke on **Open Science & Digital Health** & **Dr Hareesh Anamandra**, SAP Labs Innovation Centre, Bangalore spoke on **Artificial Intelligence in Pandemic** during webinar titled **Adoption of digital technologies during COVID-19 Pandemic** organized by NIPER-Hyderabad on June 18, 2021.

Dr. Radhika Trikha, Senior Policy Fellow, Department of Science and Technology, Government of India spoke on a webinar entitled **STI based Public-Private Partnerships: The Need for Industry-Academia Linkages in India** organized by NIPER-Hyderabad on June 23, 2021.



Mr. Ajay Sharma, Senior Director, Dr Reddy's spoke on **Good Research and Behavioral Practices for Safeguarding your IP Interests** & **Mr. Sunil Mishra**, Senior Analyst, Dr. Reddy's spoke on **Introduction to Patent Law in India** during one day online training program titled **Intellectual Property Fundamentals for MSMEs, Startups, Industry Professionals and Students** on June 26, 2021.

The program was organized by NIPER-Hyderabad as a part of 75 years of Indian Independence.



ALUMNI ZONE



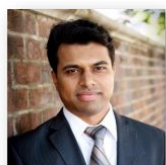
Jagrut Vaishnav



Fundamentals of Market Access

Date: 20th Feb 2021 Time: 11.00 AM

Link: <https://qr.go.page.link/3X4Rm>



Rahul Nahire

PhD, SC(ASCP) CM, TC(NRCC)
Laboratory Director- Lighthouse
Lab Services, Holly Springs, NC

Study and Job Opportunities in the USA and Abroad

Date: 05th Mar 2021 Time: 06.00 PM

Link: <https://qr.go.page.link/RJNzm>



Prinesh Patel, PhD

Sr. Product Specialist
Waters India Pvt. Ltd.
Ahmedabad

Trends in Pharmaceutical, Industrial and Research Applications of LC/MS *Way from Academia to Industry*

Date: 17th April 2021 Time: 11.00 AM

Link: <https://qr.go.page.link/vnX9e>



My winding road to Limerick - An excerpt of my experience in academia and industry

Are you worried about your research? Whether to go for Ph.D. or work in industry? Finding difficulty in dealing with failures in research or life? I will share my account of how I dealt with all of these and will attempt to answer all your questions. Further, I will share some tips in applying for the Ph.D. positions abroad and how to prepare the resources.

— **MR. HARSH BARUA**

M.S. (Pharm) NIPER Hyderabad, 2019
Pursuing Ph.D.- University of Limerick, Ireland



A proactive approach can make your Post Graduation, a combination of Science & Business

It is all about self motivation and a proactive approach during your Post Graduation that can help you enhance technical as well as managerial skills. This opens doors for opportunities in both scientific as well as managerial roles in placements.

— **MR. DHARMESH NILESH MEHTA**

M.S. (Pharm) NIPER Hyderabad, 2017-19
Assistant Manager - Business Development
Gangwal Chemicals, Mumbai



A webinar on “**Fundamentals of Market Access**” was organized by NIPER-Hyderabad on February 13, 2021. The speaker **Mr. Jagrut Vaishnav**, Operational and Strategic Assistant to the Global Patient Access at Novartis delivered a talk on various operational inputs in global projects and insights into training and pricing of deliverables and their market access across the product lifecycle.

Mr. Rahul Nahire delivered a webinar on “**Study and Job Opportunities in USA and abroad**” on 5th March 2021. The speaker designed his talk explaining application procedures and universities in USA along with golden opportunities in job arena for students abroad. His talk enlightened many students to dream higher and achieve great heights.

Dr. Prinesh Patel delivered a talk entitled “**Trends in pharmaceuticals, industrial and research applications of LC-MS from Academia to Industry**” organized by NIPER-Hyderabad on April 20, 2021.

Mr. Harsh Barua delivered a talk entitled “**My winding road to Limerick: An excerpt of my experience in academia and industry**” organized by NIPER-Hyderabad on May 29, 2021. In his talk, he provided insights to pursue PhD at abroad universities. His talk was an encouragement to students to aim higher studies with proper guidance from our star alumni network.

Mr. Dharmesh Nilesh Mehta delivered an inspirational talk on 26 June, 2021. He talked on how a proactive approach during post graduation can help in gaining skills that can open opportunities in both scientific and managerial roles.

AWARDS/ HONORS

- **Dr Priyanka Bajaj**, NIPER Hyderabad, Process Chemistry faculty has been selected for membership in the prestigious Indian National Young Academy of Sciences (IN-YAS)-INSA
- **Ms. Bhavana Valamla**, PhD research scholar under the supervision of **Dr Neelesh Kumar Mehra**, secured second best oral presentation award in the International seminar on Current Trends in Chemical and Pharmaceutical Sciences (CTCPS-2021)

NEW PROJECTS SANCTIONED

- Effect of type 2 diabetes mellitus on expression of molecular chaperons and protein aggregation in hippocampus of ageing brain, **Dr. Shashi Bala Singh**. Rs. 67,52,400/- funded by DST.
- BioNEST (Bioincubators Nurturing Entrepreneurship for Scaling Technologies), **Dr. Srinivas Nanduri**. Rs. 4,94,00,000/- funded by BIRAC (BioNEST).
- Analysis of the role of extracellular vesicles (Exosomes) in drug tolerant persister cells and its contribution to cancer-initiating cells in breast cancer, **Dr. Santosh Kumar Guru**. Rs. 24,88,000/- funded by SERB.
- Biocatalytic Process Development and Enzyme Immobilization for Synthesis of Oxcarbazepine to Eslicarbazepine, **Dr. Priyanka Bajaj**. Rs. 25,60,000/- funded by Ami Lifesciences (P) Ltd.
- Development and evaluation of oral drug delivery systems for colon targeting of drugs for the local & systemic actions, **Dr. Saurabh Srivastava**. Rs. 8,26,000/- funded by NBI Biosciences (P) Ltd.
- Development of Precision Diabetes tools using Omics approach, **Dr Vasundhra Bhandari**. Rs. 1,07,95,000 funded by Spectrum Sequencing Pvt Ltd.
- To study efficacy of therapeutic plant molecule in animal models to treat Chronic Obstructive Pulmonary Disease (COPD) by the lung regeneration/repair process, **Dr. Dharmendra Khatri**. Rs. 16,68,000/- funded by NBI Biosciences Pvt. Ltd.
- Pharmacological activities and pre-clinical screening of the promising unani medicines against hepatic disease, **Dr Neelesh Kumar Mehra, Dr Dharmendra Khatri & Dr Pankaj K Singh**. Rs. 24,53,360/- funded by Central Council for Research in Unani Medicine.
- AICTE Training and Learning (ATAL) Faculty Development Program, **Dr. B. Lakshmi**. Rs. 93,000/- funded by AICTE.
- Quality Control and Quality Assurance in Pharma Industry, **Dr. S. Gananadhamu**. Rs. 51,30,000/- funded by Government of Telangana & DBT.
- Workshop on Animal Cell Culture, **Dr. Pankaj Kumar Singh**. Rs. 18,00,000/- funded by Government of Telangana & DBT.
- Workshop on Molecular Docking Virtual Screening & Computational Biology, **Dr. K.Venkat Rao**. Rs. 18,00,000/- funded by Government of Telangana & DBT.

- Entrepreneurial Development in Pharma Sector, **Dr. B. Lakshmi** and **Mr. Sanjeev Lohani**.
Rs 48,00,000/- funded by Government of Telangana & DBT.

PATENT FILED

- Pharmaceutical composition of Tofacitinib for the Management of Atopic Dermatitis, **Atmakuri Sri Vidya, Shweta Nene, Saurabh Srivastava, Shashi Bala Singh**, Application No. 202141019173

PLACEMENTS

The vibrant and brilliant students of NIPER-Hyderabad (Batch 2019-21) from various disciplines have received placements in multi-national companies. 100% of the students have been placed through campus placements in both national and multi-national pharma companies like Johnson & Johnson, Novartis, Dr Reddy's Laboratories Ltd., Genpact, Hetero, Tech Mahindra, Granules India etc.



PLACEMENTS

CELEBRATIONS



NIPER-Hyderabad celebrated **72nd Republic Day** on 26th Jan. 2021. **Prof. Nanduri Srinivas**, Dean, unfurled the national flag in the Campus. The event was attended by all the faculty members, staff and students. Prof. Nanduri delivered a cognitive speech about the importance of Republic Day and the way in which we can contribute to the progress of the Nation as an individual and as a pharmacy professional. **Dr. S. Ganadhamu**, Registrar also enlightened the assembly by the words of wisdom.

NIPER-Hyderabad observed **Nation Science Day** on 26th Feb, 2021 and arranged a guest lecture by **Mr. Rahul Bhargava**, Qualified Packaging Technologist. The theme of this interaction was “Packaging of sensitive drug products”.



International Women's Day was celebrated on March 08, 2021 and a special lecture by **Dr. Jayeeta Bhaumik** from CIAB India, was organized. On the occasion of International Women's Day 2021, our faculty, staff and students got together to call out gender bias & inequality and celebrate our achievements towards Women Empowerment.

World Health Day was observed in the Institute on 7th April, 2021 with leading resource person and expert panelist **Dr. Undurti Narasimha Das**, CEO/CSO, UND Life Sciences, WA, USA. The theme of this interaction was “Good Health–Good Life”.



Faculty and staff actively participated during **International Day of Yoga-2021** on 21st June 2021. Director, **Dr. Shashi Bala Singh** explained the importance of Yoga in our daily life and emphasized that its daily practice shall strengthen the immunity and respiratory systems. Registrar, **Prof. JPN Mishra** motivated all faculty & staff to include **yoga** as a part of daily life.

MEDIA COVERAGE

All India Radio News, Hyderabad,
brings you

An Interview with
Dr S Gananatham

Assistant Professor
National Institute of Pharmaceutical
Education and Research

**On “ New Opportunities in
Pharma Education”**

Interviewer: M S Lakshmi, Correspondent, RNU

**FIGHTING COVID
SECOND WAVE**

A portrait of Dr S Gananatham, a man with dark hair and a mustache, wearing a light pink shirt and a dark blue jacket. He is looking directly at the camera against a plain light blue background.[illegible]

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Course Cursor: PG in Medical Devices adds technology to medical sciences

Jagriti Kumari | TNN | May 2, 2021, 09:30 IST



[A-](#)
[A+](#)

The programme contains topics related to engineering, biology, clinical science, pharmacy and material sciences



To keep up with the demand of trained professionals handling medical instruments, the National Institute of Pharmaceutical Education and Research (NIPER) had introduced an MTech in Medical Devices. The course is offered

in Medical Devices adds technology to medical sciences



Civil Services Examination: Is Public Administration losing charm among aspirants



CBSE Class X result by marks distribution relea

News

Robust regulatory regime for medical devices industry soon

Our Bureau | Hyderabad | Updated on April 07, 2021

Focus will be stepped up on certification and testing:
Secretary,
Department of
Pharmaceuticals

There will be a transition to a robust regulatory regime for the medical devices industry in the

'Chillermill' World's First Hybrid Renewable Energy Powered Freezer for Covid-19 Vaccine

By Bhoomika Singh / Updated On Sat, Mar 6th, 2021

Hyderabad-based commercial cold chain appliances manufacturer Rockwell Industries Lmt. launched the world's first-ever storage chiller and freezer that runs completely on the [hybrid renewable energy](#) source (wind and solar energy) on Thursday.

The all-new Off-grid vaccine chiller/ freezer 'Chillermill' is useful to store COVID-19 vaccine at the required temperatures, ranging from Rs. 40,000 to 1 Lakh. The entire system is certified by the National Institute of Pharmaceutical Education & Research (NIPER) [Hyderabad](#). Also, the company has rolled out its new Covid-19 vaccine freezer series.



FACULTY



Prof. Nanduri Srinivas
Professor, Process Chemistry
E-mail: nanduri.niperhyd@gov.in



Dr. N. Shankaraiah
Associate Professor, Medicinal Chemistry
E-mail: shankar.niperhyd@gov.in



Dr. Jitender Madan
Associate Professor, Pharmaceutics
E-mail: jitender@niperhyd.ac.in



Dr. Saurabh Srivastava
Associate Professor, Pharmaceutics
E-mail: saurabh@niperhyd.ac.in



Dr. Amit Asthana
Associate Professor, Medical Devices
E-mail: amit.asthsana@niperhyd.ac.in



Dr. S. Gananandhamu
Assistant Professor, Pharmaceutical Analysis
E-mail: gana.niperhyd@gov.in



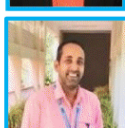
Dr. B. Lakshmi
Assistant Professor, Pharmaceutical Management
E-mail: lakshmi@niperhyd.ac.in



Dr. Y.V. Madhavi
Assistant Professor, Process Chemistry
E-mail: yvmadhavi@niperhyd.ac.in



Dr. Chandraiah Godugu
Assistant Professor, Regulatory Toxicology
E-mail: chandraiah@niperhyd.ac.in



Dr. Pankaj Kumar Singh
Assistant Professor, Pharmaceutics
E-mail: drpankajk.niperhyd@nic.in



Dr. Neelesh Kumar Mehra
Assistant Professor, Pharmaceutics
E-mail: neesh@niperhyd.ac.in



Dr. K. Venkata Rao
Assistant Professor, Medicinal Chemistry
E-mail: kvenkata.rao@niperhyd.ac.in



Dr. Shantimoy Kar
Assistant Professor, Medical Devices
E-mail: shantimoy.kar@niperhyd.ac.in



Dr. Manoj Dandekar
Assistant Professor, Pharmacology & Toxicology
E-mail: manoj.dandekar@niperhyd.ac.in



Dr. Rajesh Sonti
Assistant Professor, Pharmaceutical Analysis
E-mail: rajesh.sonti@niperhyd.ac.in



Dr. Amol G. Dikundwar
Assistant Professor, Pharmaceutical Analysis
E-mail: amol.dikundwar@niperhyd.ac.in



Dr. Neeraj Kumar
Assistant Professor, IPR & Regulatory Affairs
E-mail: neeraj.k16@niperhyd.ac.in



Dr. Nitin Pal Kalia
Assistant Professor, Pharmacology & Toxicology
E-mail: nitin.kalia@niperhyd.ac.in



Dr. Priyanka Bajaj
Assistant Professor, Process Chemistry
E-mail: pbajaj.04@niperhyd.ac.in



Dr. Santosh Kumar Guru
Assistant Professor, Pharmacology & Toxicology
E-mail: santoshkumar.guru@niperhyd.ac.in



Dr. Vasundhra Bhandari
Assistant Professor, Pharmacoinformatics
E-mail: vasundhra.b@niperhyd.ac.in



Dr. Deepika Chilkuri
Assistant Professor, Pharmaceutical Management
E-mail: deepika.ch@niperhyd.ac.in



Dr. Dharmendra Kumar Katri
Assistant Professor, Pharmacology & Toxicology
E-mail: dharmendra.niperhyd@nic.in



Dr. K. Vinaykumar
DST Inspire Faculty, Process Chemistry
E-mail: vinay.niperhyd@nic.in



Dr. Vivek Bhaskar Borse
DST INSPIRE Faculty, Medical Devices
E-mail: vivek.borse@niperhyd.ac.in

STAFF



Prof. J.P.N. Mishra
Registrar
E-mail.: registrar@niperhyd.ac.in



Mr. Sanjeev Lohani
Finance & Accounts Officer
E-mail.: fo.niperhyd@gov.in



Mr. Manzoor Mustafa
System Engineer
E-mail.: manzoor@niperhyd.ac.in



Mr. Kailash Singh
Estate & Security Officer
E-mail.: kailash1.singh@niperhyd.ac.in



Mr. Manoj Dhote
Guest House & Hostel Supervisor
E-mail.: manoj.dhote@niperhyd.ac.in



Mr. Narendra Babu
Secretary to Director
E-mail.: secretary-director@niperhyd.ac.in



Mr. Nalla Venkat Reddy
Administrative Officer
E-mail.: ao.niperhyd@gov.in



Dr. Ravi Kumar
Public Relation Officer
E-mail.: ravi.pro@niperhyd.ac.in



Mr. Bonam Pavana Teja
Secretary to Registrar
E-mail.: secretary-registrar@niperhyd.ac.in



Dr. Nandkumar Doijad
Scientist/Technical Officer Grade-II
E-mail.: nandkumar.niperhyd@gov.in



Ms Shristi Paliwal
Scientist/Technical Officer Grade-II
E-mail.: srishtipaliwal660@gmail.com



Mr. Jitender Bhatt
Assistant Grade II
E-mail.: jitendra.bhatt@niperhyd.ac.in



Mr. Kaila Nandeeshwar Reddy
Assistant Grade II
E-mail.: nandeeshwar.reddy@niperhyd.ac.in



Mr. Abhishek Tiwari
Junior Technical Assistant
E-mail.: abhishek.tiwari1@niperhyd.ac.in

PUBLICATIONS

- **Baby, S.; Durgesh, G. V.; Shankaraiah, N.** Unraveling KDM4 histone demethylase inhibitors for cancer therapy, *Drug Discovery Today* 2021, in press (doi.org/10.1016/j.drudis.2021.05.015)
- **Sunny, S.; John, S. E.; Shankaraiah, N.** Exploration of C-H activation strategies in construction of functionalized 2-aryl benzoazoles: a decisive review, *Asian. J. Org. Chem.* 2021, in press (doi.org/10.1002/ajoc.202100297)
- **John, S.; Gulati, S.; Shankaraiah, N.** Recent Advances in Multi-component Reactions and their Mechanistic Insights: A Triennium Review, *Org. Chem. Front.*, 2021, in press (doi.org/10.1039/D0QO01480J)
- **Bora, D.; Galla, M. S.; Shankaraiah, N.** The role of sulphonamides and N-sulphonyl ketimines/aldimines as directing groups in the field of C-H activation, *Chem. Asian J.* 2021, in press (doi.org/10.1002/asia.202100304)
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National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad
(Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Govt. of India)

Balanagar, Hyderabad, Telangana -500037

Ph: +91-40-23073740, +91-40-2373741, Fax: +91-40-23073751

Email: director@niperhyd.ac.in// niperhyd@gov.in

Website: www.niperhyd.ac.in