



DST STUTI TRAINING PROGRAM

Organised by

Jamia Hamdard PMU

on

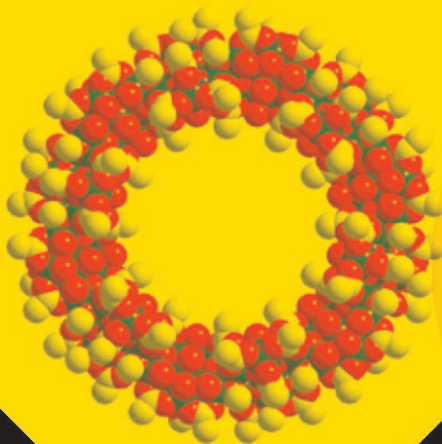
“MAPPING MOLECULES WITH MAGNET”

One week Training Programme on NMR

28th Oct. - 3rd Nov. 2022

Venue

**Department of Pharmaceutical Chemistry
School of Pharmaceutical Education & Research (SPER)
Jamia Hamdard, New Delhi-62**



Sponsored by



विज्ञान एवं प्रौद्योगिकी विभाग
Department of Science and Technology
Ministry of Science and Technology
Government of India

Programme Schedule

dststuti@jamiahamdard.ac.in

Day-1: October 28, 2022
Venue: Auditorium, Hamdard Archives

Time	Event	Speaker
9:30 am to 10:30 am		
Registration		
10:30 am to 11:45 am	Lecture -1 Title: Introduction to NMR	Dr. Showkat R. Mir , Department of Pharmacognosy & Phytochemistry, Jamia Hamdard
11:45 am to 12:00 pm		
Tea Break		
12:00 pm to 1:00 pm	Lecture-2 Title: Insight of Molecule through NMR tunnel	Dr. B. S. Joshi , Application Scientist and Sales Manager, BBIO MRS Division
1:00 pm to 2:15 pm		
Lunch Break		
Inauguration		
2:15 pm to 2:20 pm	Recitation of the Holy Quran	Mr. Khursheed A Sheikh , Research Scholar
2:20 pm to 2:30 pm	Welcome Address	Prof. (Dr.) M. Mumtaz Alam , Convenor
2:30 pm to 2:35 pm	Address by	Prof. (Dr.) Vidhu Aeri , Dean, SPER
2:35 pm to 2:50 pm	Address by Chief Guest	Dr. Mamta Rani Agarwal Advisor-I All India Council for Technical Education
2:50 pm to 3:00 pm	Presidential Remarks	Prof. (Dr.) M. Afshar Alam , Vice Chancellor
3:00 pm to 3:05 pm	Presentation of Mementoes	
3:05 pm to 3:10 pm	Vote of thanks	Dr. Showkat R Mir , Jt. Organizing Secretary
3:10 pm to 3:15 pm	National Anthem	
3:15 pm to 3:30 pm		
High Tea Break		
3:30 pm to 4:30 pm	Lecture-III NOESY: Theory and application	Prof. (Dr.) Shashank Deep , Indian Institute of Technology (IIT) Delhi JNU, New Delhi

Day-2: October 29, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 10:30 am	Visit to University Facility Group A: Herbal Garde Group B: Animal House	A: Dr. Prachi Tiwari & Dr. Suruchi Singh B: Dr. Zuhaib Siddiqui & Dr. Rafi Haider
10:30 am to 11:00 am	Visit to University Facility Group A: Animal House Group B: Herbal Garden	A: Dr. Prachi Tiwari & Dr. Suruchi Singh B: Dr. Zuhaib Siddiqui & Dr. Rafi Haider
11:00 am to 11:15 am Tea Break		
11:15 am to 12:00 pm	Lecture-IV Title: Food Authenticity Analysis using NMR	Dr. Imran Khan Head NMR, Analytical Division, Dabur
12:00 pm to 1:00 pm	Lecture-V Title: Applications of NMR based Metabolomics	Dr. Sanjeev K. Shukla, Principal Scientist, Sophisticated Analytical Instrument Facility, CDRI, Lucknow
1:00 pm to 2:00 pm Lunch Break		
2:00 pm to 3:30 pm	Hands-On Training on NMR A: "NMR-Instrumentation & setting of Experiments" B: "NMR data acquisition & processing"	A: Dr. M. Shaquiquzzaman, Department of Pharmaceutical Chemistry, Jamia Hamdard B: Dr. Showkat R. Mir Department of Pharmacognosy & Phytochemistry, Jamia Hamdard
3:30 pm to 3:45 pm Tea Break		
3:45 pm to 5:15 pm	Hands-On Training on NMR A: "NMR-Instrumentation & setting of Experiments" B: "NMR data acquisition & processing"	A: Dr. M. Shaquiquzzaman Department of Pharmaceutical Chemistry, Jamia Hamdard B: Dr. Showkat R. Mir Department of Pharmacognosy & Phytochemistry, Jamia Hamdard

Day-3: October 30, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 11:00 am	Hands-On Training on NMR	Dr. Showkat R. Mir Department of Pharmacognosy & Phytochemistry, Jamia Hamdard
11:00 am to 11:15 am Tea Break		
11:15 am to 12:00 pm	Lecture-VI NMR in metabolomics	Prof. (Dr.) M. Mumtaz Alam Department of Pharmaceutical Chemistry, SPER
12:00 pm to 1:00 pm	Lecture-VII Title: NMR: Relevance in Pre-Clinical research	Dr. Mohammad Ahmed Khan Department of Pharmacology, SPER, JH
1:00 pm to 2:00 pm Lunch Break		
2:00 pm to 5:30 pm Local Tour		

Day-4: October 31, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 11:00 am	Lecture-VIII Title: Computers in Drug Discovery	Prof. (Dr.) Mymoona Akhter Department of Pharmaceutical Chemistry, SPER
11:00 am to 11:15 am Tea Break		
11:15 am to 12:15 pm	Lecture-IX Title: NMR molecules & Biomedical applications	Prof. (Dr.) Rama Jayasundar Head, Department of NMR, AIIMS, New Delhi
12:00 pm to 1:00 pm	Lecture-X Title: Protein Ligand interactions using NMR	Dr. Monica Sundd National Institute of Immunology (NII), Delhi
1:00 pm to 2:00 pm Lunch Break		
2:00 pm to 3:30 pm	Hands-On Training on Bioinformatics	Prof. (Dr.) Mymoona Akhter, Department of Pharmaceutical Chemistry, JH
3:30 pm to 3:45 pm Tea Break		
3:45 pm to 5:15 pm	Hands-On Training on Bioinformatics	Prof. (Dr.) Mymoona Akhter Department of Pharmaceutical Chemistry, JH

Day-5: November 1, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 11:00 am	Lecture-XI Title: LC-MS: An emerging technology and it's applications in Research	Dr. Ozair Alam Department of Pharmaceutical Chemistry, SPER
11:00 am to 11:15 am Tea Break		
11:15 am to 12:15 pm	Lecture-XII Title: Documentation for Quality Assurance	Prof. (Dr.) S. Raisuddin Head R& D, Advisor IQAC, Jamia Hamdard
12:00 pm to 1:00 pm	Lecture-XIII Title: Basics of multi-dimensional Biomolecular NMR	Dr. Neel Sarovar Bhavesh Group Leader, Transcription Regulation, ICGEB, New Delhi
1:00 pm to 2:00 pm Lunch Break		
2:00 pm to 3:30 pm	Hands-On Training	Dr. Ozair Alam Department of Pharmaceutical Chemistry, Jamia Hamdard
3:30 pm to 3:45 pm Tea Break		
3:45 pm to 5:15 pm	Hands-On Training	Dr. Ozair Alam Department of Pharmaceutical Chemistry, Jamia Hamdard

Day-6: November 2, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 11:00 am	Lecture-XIV Title: How Structures aid Drug Design and Discovery	Prof. (Dr.) Punit Kaur Department of Biophysics, AIIMS
11:00 am to 11:15 am Tea Break		
11:15 am to 12:15 pm	Lecture-XV Title: Structure determination of organic	Prof. (Dr.) Mohd. Amir Department of Pharmaceutical Chemistry, SPER, Jamia Hamdard, New Delhi

Day-6: November 2, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
12:00 pm to 1:00 pm	Lecture-XVI Title: Understanding of Electronic effects in Pi-Conjugated Neutral and Ionic Molecules by NMR Spectroscopy	Dr. P Mukhopadhyay School of Physical Sciences, JNU, Delhi
1:00 pm to 2:00 pm	Lunch Break	
2:00 pm to 3:30 pm	Hands-On Training on NMR "Interpretation of 1D-NMR data for Synthetic compounds"	Dr. M. Shaquiquzzaman Department of Pharmaceutical Chemistry, Jamia Hamdard
3:45 pm to 5:15 pm	Hands-On Training on NMR "Interpretation of 1D-NMR data for Natural compounds"	Dr. Showkat R. Mir Department of Pharmacognosy & Phytochemistry, Jamia Hamdard

Day-7: November 3, 2022
Venue: Auditorium, First Floor, SPER

Time	Event	Speaker
10:00 am to 11:00 am	Lecture-XVII Title: Exploring Nature at cellular level	Dr. Vinay Gupta Application Manager, BD-FACS
11:00 am to 11:15 am	Tea Break	
11:15 am to 1:00 pm	Lecture-XVII Title: General Applications of Flow Cytometry	Dr. Vinay Gupta Application Manager, BD-FACS
1:00 pm to 2:00 pm	Lunch Break	
2:00 pm to 3:00 pm	Lecture-XVIII Title: Basic Introduction of NMR spectroscopy and its role in structure elucidation	Prof. (Dr.) D. S. Rawat Department of Chemistry, University of Delhi, Delhi
3:00 pm to 4:00 pm	Post Workshop Assessment	
4:00 pm to 4:30 pm	Certificate Distribution & Closing Remarks	
4:30 pm to 5:30 pm	High Tea	

LIST OF PARTICIPANTS

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