



**One-Day Intensive, Hands on workshop on
Intact and Subunit mass analysis of protein using LC-MS approach Wave-2**

Organized by Center for BioPharma Analysis at Venture Center

Gains	The goal of this workshop is to provide participants with a practical understanding of the techniques used in LC-MS and the skills necessary to perform protein analysis using this technology. By the end of the workshop, participants should have a solid understanding of intact mass analysis using LC-MS and the ability to apply this knowledge to analyze proteins in their own research.								
Organized by	Center for BioPharma Analysis, at Venture Center, Pune								
Supported by	<ul style="list-style-type: none"> • National Biopharma Mission • Venture Center • BIRAC 								
For whom	Scientists, Research scholars, Lab Managers/In-charge, Industry professionals working or want to expand their skill set in the area of protein analysis								
When	(Saturday) 06 May 2023 Time: 9.30 am – 5:30 pm								
Where	Lecture Theatre, Venture Center, 100 NCL Innovation Park, Pune-411008								
Queries	Technical: Dr. Manik Waghmare +91-8657320588 manik.waghmare@venturecenter.co.in Registration: Vineet Joshi +91-9156465141 vineet.joshi@venturecenter.co.in								
Registration	<p>Maximum 20 seats; First-come-first-serve</p> <table border="1"> <thead> <tr> <th>Categories</th> <th>Fees</th> </tr> </thead> <tbody> <tr> <td>Medium and large companies/ others</td> <td>3000/-</td> </tr> <tr> <td>Micro and small enterprises/ individuals</td> <td>2000/-</td> </tr> <tr> <td>Students with valid ID card</td> <td>1000/-</td> </tr> </tbody> </table> <p>Steps for registration:</p> <ul style="list-style-type: none"> • Step 1: Interested participants need to fill in registration form at the following link. • Register online at: https://tinyurl.com/6may-ws01 • Step 2: The registered attendees will get the payment details on their email id post screening of registration details. • Step 3: Seat will only be confirmed after payment of registration fee. <p>Note:</p> <p>Organizers reserve the right to select participants to optimize the group for better interaction and ensure benefit to as many relevant participants as possible.</p> <p>Fees paid is not refundable and non-transferable under any circumstances.</p> <p>Registration closes once 20 seats are full or on 2 May 2023 (whichever comes sooner)</p>	Categories	Fees	Medium and large companies/ others	3000/-	Micro and small enterprises/ individuals	2000/-	Students with valid ID card	1000/-
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Introduction

Theory of LC-MS: Participants will learn about the underlying principles of LC-MS and how it is used to determine the mass and charge state of a protein.

Sample preparation: Participants will learn about the steps involved in preparing a protein sample for intact mass as well as subunit mass analysis for proteins.

Mass spectrometry instrumentation: Participants will become familiar with the different components of a mass spectrometer and how they are used to acquire and analyze data.

Data acquisition and processing: Participants will learn how to acquire and process data from an HRMS instrument.

Data interpretation: Participants will learn how to interpret LC-MS data of a protein to find its mass.

Hands-on experience: Participants will have the opportunity to perform an experiment in a laboratory setting and apply the knowledge they have learned to analyze protein samples.

Participants to note the following

- Course fee is non-refundable and non-transferable
- Course includes tea and lunch at Venture Center
- Course will include: Lab demo; Access to restricted website with online compilation of resources for HPLC; Course notes including slides, Notes on data interpretation exercise
- Please note, the participants will have to arrange for their own travel/local transport and accommodation and dinners
- No sessions will be repeated if a participant is unable to attend due to any reasons.
- Free membership in mailing list to follow-up on workshop and intimation of relevant events/ funding/ opportunities from Venture Center.
- Online Certificate of Participation issued by Venture Center

Workshop Schedule

Time	Session title	Lead
9:30 to 10.00	Registration	
10:00 to 10.30	Welcome and Introduction to Venture Center and CBA	Dr. Sreekanth Rouduri
10.30 to 11:30	Basics of LC-MS: Principle and Instrumentation	Mr. Ijaz Inamdar
11:30 to 11:45	Tea	
11:45 to 12.45	Application of LC-MS in the characterization of proteins with focus on mass determination	Dr. Heramb Kulkarni
12.45 to 13.00	Lab Tour	
13:00 to 14:00	Lunch	
14:00 to 14:15	Introduction to practical session Instructions, making groups, Assigning tasks	Mr. Ijaz/ Dr. Heramb
14:15 to 16:45	Practical Session (Venue: Lab Block)	
16:45 to 17:00	Tea	
17:00 to 17:30	Closure – Feedback, Certificate distribution	



Speaker (in alphabetical order of last name)



Ijaz Inamdar
Scientist-CBA

Ijaz holds a M.Tech degree in Pharmaceutical Operations and Management from BITS-PILANI & Masters in Analytical Chemistry from the Department of Chemistry, University of Pune . He has about seven years of experience in analytical research and development. He has previously been associated with MAARC Labs, CSIR-NCL, Mylan Laboratories (R&D) and Cipla Pharmaceuticals (R&D). His areas of interests are HPLC, GC and Mass spectrometry.



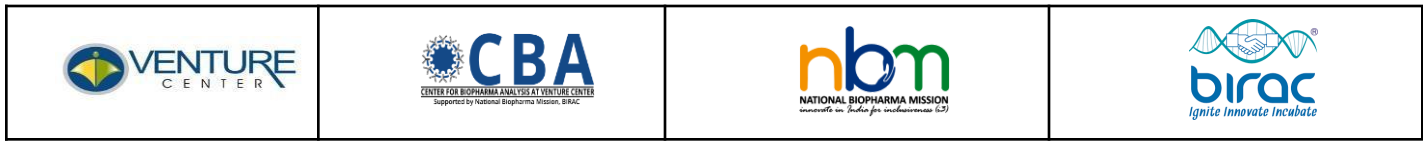
Heramb Madhav Kulkarni
Senior Specialist-Mass Spectrometry

Heramb is a Ph.D. from Centre for Cellular and Molecular Biology, Hyderabad in Life Science. He has 7+ years of experience in Analytical Research in the Pharma and Biopharma industry. He has earlier worked for Accutest Biologics, (Navi Mumbai) as well as Biocon Limited (Bangalore).



Sreekanth Rouduri
Chief Scientific and Business Officer, CBA, Venture Center, Pune.

Dr. Sreekanth Rouduri received his Ph.D. from CCMB, Post-doctoral training from Harvard Medical School, USA and Business Management certificate from North-Eastern University, USA. He has over 20 years of Pharma R&D experience in leadership roles in the USA and India. He has a successful track record of establishing state of the art labs and high performing teams, and leading multiple cross functional drug discovery projects. Some of these projects have reached clinical development/approval stages in diverse therapeutic areas. His experience includes both small molecules and large molecule biotherapeutics. During this tenure, he worked in innovator as well as contract research organizations where he collaborated effectively with many pharma, biotech and academia partners across the globe.



Organized by	
 <p>CBA CENTER FOR BIOPHARMA ANALYSIS AT VENTURE CENTER Supported by National Biopharma Mission, BIRAC</p>	<p>Center for BioPharma Analysis (CBA) is an initiative of Venture Center supported by the National BioPharma Mission, BIRAC (Government of India). The Venture Center is a technology business incubator hosted by CSIR-National Chemical Laboratory, Pune. It is a state-of-art GLP compliant facility with high-end instrumentation and industry-linked personals provides globally acceptable analysis of biopharmaceuticals. It provides open access cutting-edge technologies for Biopharmaceutical Analysis and would emerge as resource center for Characterization of Biopharmaceuticals. The facility aims to cater all academics, small to medium size biosimilar developers through-out the India and the world. For more information, visit: https://www.venturecenter.co.in/biopharma/</p>
Supported by	
 <p>birac Ignite Innovate Incubate</p>	<p>Biotechnology Industry Research & Assistance Council (BIRAC) is a new industry-academia interface and implements its mandate through a wide range of impact initiatives, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring innovation excellence to the biotech firms and make them globally competitive. For more information, visit: www.birac.nic.in</p>
 <p>nbm NATIONAL BIOPHARMA MISSION innovate in India for inclusiveness (i3)</p>	<p>National Biopharma Mission (NBM) is a Mission of the Government of India approved by the Cabinet for implementation in May 2017. The NBM's mission is to make India a hub for design and development of novel, affordable and effective biopharmaceutical products and solutions. The NBM has an allocation of US\$ 250 million and is jointly funded by the Government of India and the World Bank in equal measure. The NBM is officially known as "An Industry-Academia Collaborative Mission of Department of Biotechnology (DBT) for Accelerating Early Development for Biopharmaceuticals". ; Biotechnology Research Assistance Council (BIRAC) is the implementation partner of the Government of India for the Mission. For more information: visit: https://birac.nic.in/nbm/</p>
 <p>VENTURE CENTER</p>	<p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science & Technology's National Science & Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center's focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering. For more information, visit: http://www.venturecenter.co.in/</p>