



Technical Workshops Series – 2018

**Two-Days Intensive, Hands-on Workshop on
Mass Spectrometry Based Proteomics for Beginners**
- Organized by Venture Center

Learn	<ul style="list-style-type: none"> • Introduction to Proteomics & Mass Spectrometry; Hands on training for mass spectrometry data analysis; Workflow of typical proteomics study; • Operational principles and essential concepts; Theory of separation mechanisms and modes. Understanding the instrumentation of Mass Spectrometer including possible configurations, Method Development Strategies. • Best practices in proteomics. Live demonstration of experiments; Mini-workshop on data interpretation with real data; Quick update on latest techniques/developments. <p>Workshop is intended to be basic but shall include a few special applications illustrated with real case studies. Learn from faculty with extensive practical experience with industrial applications.</p>								
Organized by	Venture Center – a Technology Business Incubator								
For whom	Any Individual wishing to gain an introduction to the basics of Proteomics Workflow and the use of Mass Spectrometry as tool for analysis of Proteins								
When	Tuesday- Wednesday, 26- 27 June 2018								
Where	E-Classroom & CAMS, Venture Center, 100 NCL Innovation Park, Dr. Homi Bhabha (Pashan) Road, Pune-411008								
Contact	<p>Technical queries: Ms Edna +91 7410045651 edna@venturecenter.co.in</p> <p>Logistical queries: Ms Lipika 020-25865877/75/76 eventsdesk@venturecenter.co.in</p>								
Cost	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Category</th> <th style="text-align: left;">Fees</th> </tr> </thead> <tbody> <tr> <td>Students with valid ID card</td> <td>Rs 3000/-</td> </tr> <tr> <td>Micro and Small Enterprises/ academic institutions/ Individuals</td> <td>Rs 5000/-</td> </tr> <tr> <td>Medium and large companies</td> <td>Rs 7000/-</td> </tr> </tbody> </table> <p>Limited seats: 25 ; First-come-first-serve</p> <p>Register here: https://bit.ly/2Jr6dAN Registration closes once 25 seats are full or 23 June 2018 (whichever comes sooner)</p> <p>NOTE</p> <ul style="list-style-type: none"> ➤ Mandatory for Participants to carry their own laptops for Data analysis session ➤ Definitions of Micro Small and Medium Enterprise: http://dcmsme.gov.in/ssiindia/defination_msme.htm ➤ Fees paid is not refundable and non transferable under any circumstances 	Category	Fees	Students with valid ID card	Rs 3000/-	Micro and Small Enterprises/ academic institutions/ Individuals	Rs 5000/-	Medium and large companies	Rs 7000/-
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Introduction

This workshop aims to introduce the participants to the basics of Proteomics. The goal is that the participants should be able utilize their learning from this workshop for their respective research. The workshop will be conducted by faculty having vast experience working on high end mass spectrometers and techniques in proteomics. The workshop includes lab demonstrations and data interpretation exercises. Learn from faculty with extensive practical experience with industrial applications.

Course Outline

- Theory of Operational principles and essential concepts.
- Live demonstration of experiments.
- Mini-workshop on data interpretation with real data. **(Mandatory for Participants to carry their own laptops for Data analysis session)**
- Quick update on latest techniques/developments.

Course includes

- Classroom sessions; Lab demos
- Access to restricted website with online compilation of resources; Course notes including slides.
- One-on-one feedback on data interpretation exercise
- Certificate of Participation issued by Venture Center
- Course includes tea and lunch at Venture Center cafeteria

***Please note, the participants will have to arrange for their own travel/local transport and accommodation and dinners.**

- For accommodation (standard and budgeted hotels) please visit: www.venturecenter.co.in/puneguide/standard.php
- For accommodation (deluxe and luxury hotels) please visit: www.venturecenter.co.in/puneguide/deluxe.php
- For local transport details visit: www.venturecenter.co.in/puneguide/taxi.php



Workshop Schedule

Time	Session title	Lead
26th June 2018		
0830 - 0900	Registration	Lipika Biswas
0900 - 0915	Introduction to the course and faculty	V Premnath/ Manisha P
0915 - 1030	<ul style="list-style-type: none">Proteomics overview including several techniques to carry out proteomics analysis (45 mins)Basics of Mass Spectrometry (30 mins)	Chaitanya Saxena Ajeet Singh
1030 - 1100	Tea & Light Refreshments; Group Photograph	
1100 - 1300	Mass Spectrometry based Proteomics	Ajeet Singh
1300 - 1400	Lunch	
1400 - 1530	<ul style="list-style-type: none">Interpretation of Peptide Spectrum (30 mins)Exercise on Interpretation of Peptide Spectrum (60 mins)	Chaitanya Saxena Ajeet Singh
1530 - 1600	Tea	
1600 - 1800	<ul style="list-style-type: none">Understanding and Analyzing a Typical Proteomics dataExercise on Analysis of Proteomics Data	Ajeet Singh
27th June 2018		
0900 - 1030	Designing a Typical Proteomics Experiment	Chaitanya Saxena
1030 - 1100	Tea & Light Refreshments	
1100 - 1300	<ul style="list-style-type: none">Demonstration on MS system;Running a complex protein;Optimizing essential parameters etc.	Ajeet Singh
1300 - 1400	Lunch	
1400 - 1530	Analysis of Data acquired in Demo session	Ajeet Singh
1530 - 1600	Tea	
1600 - 1645	Broad overview of academic and industrial applications	Chaitanya Saxena
1645 - 1715	Closure – Feedback, Certificate distribution	V Premnath/ Manisha P



Course Faculty (in alphabetical order of last names)



Dr. Chaitanya Saxena,
Chief Executive Officer, Shantani Proteome Analytics Pvt. Ltd.

With 12+ years of experience in utilizing biophysical techniques to solve the relevant problems in life sciences, Chaitanya is a seasoned professional and brings successful experience of developing proteomics based technologies for drug-target deconvolution and drug-target interaction measurements in intact biological systems from his tenure at Eli Lilly & Company. Chaitanya earned a Ph.D. from The Ohio State University, Columbus, OH, USA.



Dr. Ajeet Singh
Senior Scientist, Venture Center

Ajeet has more than 7 years of research experience in mass spectrometry. He is a Senior Scientist at the Center of Applications of Mass Spectrometry (CAMS), Venture Center and co-founder of Barefeet Analytics Private Limited. He has a M.Sc. in Analytical Chemistry from the Indian Institute of Technology (IIT), Roorkee and Ph.D. in Chemistry from NCL Pune (AcSIR). He specializes in Mass Spectrometry and Mass Analysis. His expertise lies in method development for proteomics, qualitative as well as quantitative analysis of small molecules, pharmaceuticals, drugs, pesticides, food contaminants and metabolites.

Venture Venter team (in alphabetical order of last names)



Madhulika Bapat
Lab Associate

She is MSc in Biotechnology and has 5+ years of industry experience, with a recent work done as a Biotechnologist. Her responsibilities include support incubatees and budding entrepreneurs by offering lab services; Contributing and ensuring smooth operations of lab block at VC; Operating lab in coordination with scientific mentors and advisors of the VC (including NCL scientists)



Edna Joseph
Associate Manager- Analytical Services

Edna has several years of experience in setting up and managing Venture Center's Lab facilities. She has demonstrated knowledge and understanding of many analytical instruments. She has run and assisted in proof-of-concept projects. Many technical and scientific workshops, especially those with hands-on lab exercises with lab instruments have been conceptualized, planned and organized by her.



About the organizers



The Center (CAMS) shall aim to be a Collaboration Center focused on Applications of Mass Spectrometry.

The Center for Applications of Mass Spectrometry (CAMS) is a facility developed and managed by the BioIncubator at Venture Center, NCL Innovation Park, Pune, India as a resource center for foster collaboration between researchers and industrial/ entrepreneurial organizations leveraging mass spectrometry.

CAMS plans to have a specific focus and emphasis on technology advancement, industrial applications and new venture creation (especially services leveraging mass spectroscopy to create value and tools enhancing the applicability of mass spectrometry). The Center shall aim to foster collaboration between researchers and industrial/ entrepreneurial companies.

More on: <http://venturecenter.co.in/cams/>



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 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/>



Shantani envisions becoming a most admired life-sciences technology company which would enable discovery of new medicines through innovative and integrated applications of modern multi-disciplinary sciences and technologies. Shantani's mission is to utilize modern protein chemistry and proteomics methods to identify and validate clinically relevant novel drug targets for prevailing diseases and discover and support the discovery of new drugs for unmet medical needs.

For more information, visit <http://shantani.com/>