

10th Hands-On Proteomics Workshop (2D Gel Electrophoresis in combination with Mass Spectrometry) Efficiency and Reliability through Innovative Technology

SERVA Electrophoresis

High Performance Electrophoresis (HPE) - A New Dimension of 2D Gel Electrophoresis Learn to handle a complex workflow using the 2D High Performance Electrophoresis System. The combined use of the HPE Tower and HPE 2D gels allows a separation quality not experienced before. Following the IEF in SERVA IPG BlueStrips samples are separated on 2D horizontal gels using the HPE Tower system. Additionally a 2D approach using IPG Blue strips and vertical PRIME gels, followed by a Western blot using SERVA equipment and buffers is shown.

DECODON

Image Analysis with Delta2D - expression profiles from 2DE, 2D WesternBlot, 2D DIBE,...

DECODON shows you how to use Delta2D, how to analyze images in an innovative way and how to use statistical approaches to get robust data including visualization for presentation and easy understanding. Learn to analyze 2D western blot, redox proteomics, coverages, and many more approaches with Delta2D.

BRUKER

Strategies for Protein Identification - from in-gel digestion to protein identification

Learn how to prepare good samples for MALDI-TOF/TOF-MS. Tips and tricks for sample preparation to achieve highly valuable protein identification by an highly automated workflow. Learn how to "read" MS and MS/MS data to check your database output with respect to reliability and accuracy.

Do you have certain questions you want to discuss?	
Do you want to have your own samples analyzed?	
Please ask for further information when you register.	

Registration:

Details see https://www.cta.tuwien.ac.at/index.php?id=16297 Registration via website or email to martina.marchetti-deschmann@tuwien.ac.at Please register – course is limited to 10 participants.

When:	14.04. – 17.04.2020 (details see page 2)						
Where:	Vienna University of Technology, Getreidemarkt 9; Building BB, 1060 Vienna						
Costs:		Industry	Students, PhD, PostDoc				
	early bird (Mar 01, 2020)	590,00€	480,00€				
	after Mar 01	695,00€	590,00€				

latest registration Mar 27, 2020 After this ask for open position directly at martina.marchetti-deschmann@tuwien.ac.at

AuPA Members have a discount of 50€. Lunch, Coffee break, scripts, consumables are included

Program

Tuesday, April 14 th , 2020							
08:30	to	08:45	L	Registration and Welcome			
08:45	to	09:00	L	Introduction of participants (e.g. name, work place, type of research, goal)			
09:00	to	09:20	L	Overview of the workshop program			
09:20	to	09:40	L	Image Analysis of 2D electrophoresis gel - state of the art			
09:40	to	10:00	L	Introduction to Modern Protein Mass Spectrometry			
10:00	to	10:15		Coffee break			
10:15	to	10:30	L	Theory: Fluorescence 2D gel electrophoresis and 2D Western Blotting			
10:30	to	11:45	Ρ	Sample Preparation (Sci-Dyes, Lightning Red), IPG strip rehydration and Experimental setup of the workshop			
11:45	to	13:00		Lunch			
13:00	to	15:45	Ρ	Gel analysis with demo gels under supervision (1)			
15:45	to	16:00		Coffee break			
16:00	to	17:00	L	Mass spectrometry			
17:00	to	18:00	L/P	HPE Tower, HPE 2D Gels, Start 1 st dimension: Cup Loading, start IEF			
Wednesday, April 15 th , 2020							
08:00	to	09:45	Р	Stop IEF, Equilibration of IPG, Start 2 nd dimension (1)			
09:45	to	10:00		Coffee break			
10:00	to	11:30	Р	2D gel electrophoresis (vertical) for Western Blotting			
11:30	to	12:00	Р	Preparing Laptops			
12:00	to	12:45		Lunch			
12:45	to	15:15	Р	Gel analysis with demo gels under supervision (2)			
15:15	to	15:30		Coffee break			
15:30	to	16:15	L	Mass spectrometry - sample preparation			
16:15	to	17:15	L	Mass spectrometry - analysis of mass spectra			
17:15	to	18:00	L	Modern Mass Spectrometry for Proteomics			
Thursday	Thursday, April 16 th , 2020						
08:00	to	10:00	Р	Scan gels			
10:00	to	12:00	L	Gel analysis with demo gels under supervision (3)			
12:00	to	13:00		Lunch			
13:00	to	14:30	L	Mass spectrometry			
14:30	to	14:45	Ρ	Coffee break			
14:45	to	17:00	Р	Mass spectrometry			
16:30	to	17:30	Ρ	Trouble shooting			
Friday, A	pril 17	th , 2020					
08:0 0	to	10:00	L/P	Latest Developments in 2D electrophoresis, mass spectrometry & software analysis			
10:0 0	to	10:15		Break			
10:1 5	to	11:45	L/P	Q &A			

L: lecture, P: Hands-On

Slight changes of time plan may occur during the course.