## VLAG – Advanced Proteomics 2025

1 -4 July 2025, Wageningen, the Netherlands

DAY 1 – Tuesday 1 July 2025 LOCATION: Room 5010 / Lab P5009 – Orion Building (Bronland 1, 6708 WH Wageningen)				
08.30-09.00	Walk in – registration (room 5010)			
09.00-09.15	Introduction: Proteomics at Biochemistry and overview course	Mark Roosjen		
09.15-09.30	<b>Practical work I</b> : Sample preparation (protein disulfide bonds reduction with DTT)			
09.30-10.00	Lecture 1: Introduction to the Sample preparation protocols	Mark Roosjen		
10.00-10.15	Continuation of practical work I: part 2 (Alkylation of reduced cysteines with Acrylamide)			
10.15-10.30	Coffee/ tea break			
10.30-11.30	Lecture 2: Introduction to Proteomics	Elwira Smakowska		
11.30-11.45	<b>Continuation of practical work I</b> : part 3 (FASP cleanup step 1)			
11.45-13.00	Lunch (first a group picture!)			
13.00-13.15	<b>Continuation of practical work I</b> : part 4 (FASP cleanup step 2)			
13.15-14.15	<b>Continuation of practical work I</b> : part 5 (start fast Tryspin digestion: 2h at 45°C)			
14.15-16.00	<b>Lecture 3</b> : Proteomics basics: ionization methods, instrumentation, and general measurement methods used in Proteomics by MS.	Sjef Boeren		
16.00	Coffee/ tea break during practical			
16.00-16.45	<b>Continuation of practical work I</b> : part 6 (Stop the digestion and filter the peptides by centrifugation)			

DAY 2 – Wednesday 2 July 2025 LOCATION: Room 5010 – Orion Building (Bronland 1, 6708 WH Wageningen)				
09.00-10.30	<b>Lecture 4</b> : Sample prep techniques and results for phosphoproteomics and interactomics	Mark Roosjen		
10.30-11.00	Coffee/ tea break			
11.00-12.00	<b>Lecture 5</b> : Post-translational modifications and quantitative proteomics techniques	Elwira Smakowska		
12.00-13.00	Lunch			
13.00-15.00	<b>Lecture 6</b> : Nano liquid chromatography electrospray mass spectrometry in practice.	Sjef Boeren		
15.00-15.15	Coffee/ tea break	·		
15.15-17.00	Preparing spectral search engines	Sjef Boeren & Mark Roosjen		

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DAY 3 – Thursday 3 July 2025 LOCATION: Room 5010 – Orion Building (Bronland 1, 6708 WH Wageningen)					
09.00-10.00	<b>Lecture 7</b> : Acquisition techniques, DDA, DIA and PASEF technology	Mark Roosjen			
10.00-10.30	Coffee/ tea break				
10.30-12.30	Lecture 8: Computational proteomics	Mark Roosjen			
12.30-13.30	Lunch				
13.30-15.00	Continuation Lecture 8: Computational proteomics	Mark Roosjen			
15.00-15.15	Coffee/ tea break				
15.15-17.00	Visit to the proteomics facility of the Laboratory of Biochemistry CANCELED				
18.00	Dinner with all course participants and lecturers,				
	Restaurant XXX				
	Wageningen				

DAY 4 – Friday 4 July 2025 LOCATION: Room 5010 – Orion Building (Bronland 1, 6708 WH Wageningen)					
10.00-11.00	Guest lecture	Geert de Jaeger, Center for Plant Systems Biology, Gent University			
11.00-11.15	Coffee/ tea break				
11.15-12.30	Guest lecture	Tim Lambers, Friesland Campina			
12.30-13.30	Lunch				
13.30-14.30	<b>Practical work II</b> : Preparation of a presentation by each participant of their own project including proteomic results obtained.				
14.30-14.45	Coffee/ tea break				
14.45-16.00	Participant presentations of proteomics results and own projects				
16.00-16.30	Evaluation of the course and closing session				