

Program Proteomics summer school 2026

August 24th -28th 2026

Day 1: Basic concepts-Sample preparation- Experimental design-Data dependent acquisition (DDA) concepts

Room 1.24 campus Heymans blok B- Eosine

8h15-9h00 Registration and good morning coffee

9h00-9h15 Welcome (An Staes)

9h15-9h45 Basic concepts of LC-MS driven proteomics (An Staes)

9h45-10h45 Sample preparation: the basics (An Staes)

10h45-11h15 **Coffee break**

11h15-12h00 Flash presentations (1min/person)

12h00-13h00 **Lunch**



Room 1.11 campus Heymans blok B- Apotheek

13h00-14h00 Experimental design (Lieven Clement)

14h00-15h00 LC separation in LC-MS (An Staes)

15h00-15h30 **Coffee break**

15h30-16h30 Data dependent acquisition: the basics and instrument design (An Staes)

16h30-17h30 Visit to the ProGenTomics service core

17h30-... Social gathering



Day 2: Data dependent acquisition: identification

Room 1.11 campus Heymans blok B- Apotheek

8h15-9h00 Registration and good morning coffee

9h00-10h00 DDA: The theory of identification (Sam Van Puyenbroeck)

10h00-10h30 **Coffee break**

10h30-12h00 DDA ID: practical (Sam Van Puyenbroeck, Pathmanaban Ramasamy, Enrico Massignani)

12h00-13h00 **Lunch**

13h00-14h30 DDA ID: practical II (Sam Van Puyenbroeck, Pathmanaban Ramasamy, Enrico Massignani)

14h30-15h00 **Coffee break**

15h00-17h00 DDA ID: practical III (Daria Fijalkowska)



Day 3: Data independent acquisition: basic concepts & data analysis

Room 1.11 campus Heymans blok B- Apotheek

8h15-9h00 Registration and good morning coffee

9h00-10h15 practical I: Biological interpretation (Maarten Dhaenens)

10h15-10h45 **Coffee break**

10h45-12h00: Data Independent acquisition: the basics (Maarten Dhaenens)

12h00-13h00 **Lunch**

13h00-13h45 Targeted acquisition methods (An Staes)

13h45-14h45 DIA: Data analysis (An Staes)

14h45-15h15 **Coffee break**

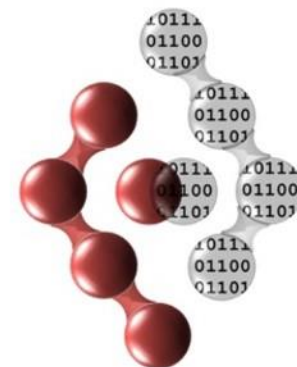
15h15-17h00 DIA practical I: Identification & quantification (An Staes)



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Day 4: Quantification

Room 1.24 campus Heymans blok B- Eosin

8h15-9h00 Registration and good morning coffee

9h00-10h00 DDA: Quantification I - Background on preprocessing (Lieven Clement)

10h00-10h30 **Coffee break**

10h30-12h00 DDA-DIA: Hands-on quantification - preprocessing (Lieven Clement)

12h00-13h00 **Lunch**

Room 1.11 campus Heymans blok B- Apotheek

13h00-15h00 DDA-DIA: Quantification II - Background on differential analysis and experimental design & Hands-on (Lieven Clement)

15h00-15h30 **Coffee break**

15h30-16h35 DDA-DIA: Hands-on quantification of complex designs (Lieven Clement)



Day 5: Proteomics applications

Room 1.24 campus Heymans blok B- Eosine

8h015-9h00 Registration and good morning coffee

9h00-9h45 N-terminal proteomics (Kris Gevaert)

9h45-10h30 Multi-omics (Gerben Menschaert)

10h30-11h00 **Coffee break**

11h00-11h45 MS-based protein complex analysis (Sven Eyckerman)

11h45-12h30 Spatial omics (Evelien Van Hamme)

12h30-13h30 **Lunch**

Room 1.11 campus Heymans blok B- Apotheek

13h30-14h15 Single cell proteomics (Marcel Bühler)

14h15-15h00 Clinical proteomics (Jarne Pauwels)

15h00-15h30 **Coffee break**

15h30-16h15 Immunopectidomics (Francis Impens)

16h15-16h30 Concluding remarks

