Fundamentals of Glycomics, Glycoprotemics and GAGS

Virtual Course 2 Schedule

Dec 10-11, 2025

Wednesday, December 10, 2025

9:00 a.m. - 10:30 a.m.

Lecture - "Overview of Glycoprotein Structures, Biosynthesis and Function"

Dr. Kelley Moremen

10:30 - 11.00 am - Break

11.00 a.m. – 12.00 pm

Lecture –"Introduction to Glycomics Analysis"

Dr. Parastoo Azadi

<u>12:00 p.m. – 1:00 p.m</u>. – Lunch Break

1:00 p.m. - 3:30 p.m.

Laboratory Discussion: Glycomics Analysis by MALDI-TOF and ESI-MS

- MALDI-TOF Profiling
- Direct Infusion Mass Spectrometry
- MS/MS and MSn Methods

Laboratory Discussion - Glycopeptide Analysis and Glycoproteomics

- Protease and Enzymatic Treatments
- Chromatography and Instrument Settings
- Data Considerations

Drs.Parastoo Azadi & Stephanie -Hartmann

3:30 p.m. - 4:00 p.m. - Break

4:00 p.m. – 5:00 p.m.

Lecture – "Glycans Linked to Lipids and Lipid Precursors"

Dr. Michael Tiemeyer

Thursday, December 11, 2025

9:00 p.m. - 10:30 a.m.

Lecture – "Structure and Function of Glycosaminoglycans in Health and Disease"

Dr. Ryan Weiss

<u>10:30 a.m. – 11:00 a.m. -</u> **Break**

<u>11:00 a.m. – 12:00 p.m.</u>

"Databases and Software Tools for Glycomics and Glycoproteomics"

Rene Ranzinger

<u>12:00 p.m. – 1:00 p.m.</u> – **LUNCH**

1:00 p.m. – 2:30 p.m.

Lecture – "Introduction to Glycoproteomics"

Dr. Lance Wells

<u>2:30 p.m. – 3:30 p.m. - Break</u>

3:30 p.m. – 4.30 p.m.

Lecture – "Chemo-enzymatic Synthesis of Glycolipids"

Dr. Ana Ramirez