Fundamentals of Polysaccharide Analysis

Virtual Course 1 Schedule

Dec 08-09, 2025

Monday, December 08, 2025

9: 00 a.m. - 9:15 a.m.

Introduction and Welcome

Dr. Parastoo Azadi

9:15 a.m. – 10:45 a.m.

Lecture – "*Structural Characterization of Carbohydrates*"

----covers various methods for composition and linkage analysis of monosaccharide residues of polysaccharides, oligosaccharides and glycol-conjugates

Dr. Parastoo Azadi

10:45 a.m. – 11:00 a.m. -**Break**

11:00 a.m. – 12:00 a.m.

Lecture – "*Isolation and Characterization of Bacterial Surface Polysaccharides*"

Dr. Artur Muszynski

12:00 p.m. – 1:00 p.m. – **Lunch**

1:30 p.m. – 3:00 p.m.

Lecture – "*Introduction to Carbohydrate Chemistry*"

Dr. Geert-Jan Boons

3:15 a.m. – 5:00 p.m.

Lab demo and data analysis -composition by TMS and AA

Drs. Artur Muszynski/Ian Black

Tuesday December 09, 2025

9:00 a.m. – 10:00 a.m.

Lecture – "*Polysaccharide" structural analysis informs our understanding of pectin structure, synthesis and function*"

Dr. Debra Mohnen

10:00 a.m. – 11:00 a.m.

Lecture – "*Introduction to High Performance Anion Exchange Chromatography*"

Dr. Christiane Szymanski

11:15 a.m. – 12:00 a.m.

Lecture – "*Preparative and Analytical Size Exclusion Chromatography of Polysaccharides*"

------- a practical approach for isolation and purification of polysaccharides

Dr. Stephanie Archer-Hartmann

12:00 p.m. – 1:30 p.m. – **Lunch**

1:30 p.m. – 2:30 p.m.

Lecture – "*Introduction to High Performance Anion Exchange Chromatography*"

------ for monosaccharides and oligosaccharides analysis

Dr. Parastoo Azadi

2:45 p.m. – 3:45 p.m.

Lecture – "*Structural Characterization of Glycoconjugates by NMR*"

Dr. Christian Heiss

4:00 p.m. – 5:00 p.m.

Lab demo and data analysis- for partially methylated alditol acetate (PMAA) linkage analysis

Drs. Artur Muszynski/Ian Black