

Bio-Gentle Autumn School: Biomolecules (production, properties, separation technologies, applications)



September 30th - October 3rd 2025, Lancaster, UK
School of Engineering, Lancaster University



OFFICIAL PROGRAMME

Tuesday, September 30th 2025 Science & Technology C009

09:00 - 09:15		Welcome at Lancaster and presentation of the School activities	Professor Raffaella Villa (Head of the School)
09:15 - 11:00		Biomolecules of Life: carbohydrates, lipids, ribonucleic acids, proteins	Dr E.H. Papaioannou (School of Engineering, Lancaster University)
		<i>Coffee break</i>	
11:30 - 13:00		Biomolecules of life: directing the evolution of peptide self-assembly for regenerative medicine applications	Professor Aline F. Miller (University of Manchester)
		<i>Lunch</i>	
14:30 - 16:00		Microbial cell factories: various products expression in <i>E. coli</i>	Dr Timothy Overton (University of Birmingham, on-line)
		<i>Coffee break</i>	
16:30 - 18:00		Macromolecules of industrial interest (enzymes, carbohydrates, polymers etc)	Professor Cristiana Boi (University of Bologna)

Wednesday, 1st of October Lancaster Castle (Lancaster Suite)

9:00 - 10:30		Bio-fouling formation causes and treatments	Professor Jackie Parry (Biomedical and Life Sciences, Lancaster University)
		<i>Coffee break</i>	
11:00 - 12:30		Size Exclusion Chromatography	Dr Raj Bhardwaj (Agilent Ltd)
		<i>Lunch</i>	
14:00 - 15:30		Biopharmaceutical molecules and products	Professor Cristiana Boi (University of Bologna)
		<i>Coffee break</i>	
16:00 - 17:30		Bio-fouling in case of membrane separations	Dr Antoine Kemperman (University of Twente)

Thursday, 2nd of October Science & Technology C009

9:00 - 10:30		Proteins crystallisation	Dr Filipa Juliana Fernandes Castro Freitas (Universidade do Minho, on-line)
		<i>Coffee break</i>	
11:00 - 13:30		Student's presentation (within and outside the network)	
		<i>Lunch</i>	
15:00 - 16:00		Food ingredients	Dr E.H. Papaioannou (School of Engineering, Lancaster University)
		<i>Coffee break</i>	
16:30 - 17:30		Macromolecules in diagnostic sector	Dr Lucy Beales (Global Access Diagnostics)

Friday, 3rd of October Science & Technology C009

9:00 - 10:30		Lab tour (B65 S&T): microbial growth and cell separation demonstrations	
		<i>Coffee break</i>	
11:00 - 11:45		Policy and Regulatory landscape for Bio-based and biodegradable materials	Dr Jen Vanderhoven (BioIndustry Association, on-line)
11:45 - 12:45		Social acceptance for bio-macromolecules production	Dr Katerina Psarikidou (University of Sussex)
12:45-13:00		Closing remarks/discussion	
		<i>Lunch</i>	