

13th RSC Analytical Biosciences Group Early Career Researcher Meeting 2026

Speaker Programme

Schedule day 1 (Thursday 25th June)

Time	Event	Chair
09.30-10.30	Registration, tea/coffee	
10.30-10.40	Welcome and intro to Waters site – <i>Jim Langridge</i> , Waters	
10.40-10.50	Welcome – <i>Henry Day</i> , RSC Analytical Biosciences Group chair	
10.50-11.10 (20 mins)	<i>Kish Adoni</i> - Protein glutathionylation as a dynamic regulator of global protein-protein interactions and protein functionality	Session Chair: <i>Alexandra Richardson</i> RSC ABG
11.10-11.30 (20 mins)	<i>Jonathan E. Ditcham</i> - Bayesian Empirical Analysis of Crosslink Hierarchies (BEACH) reveals differential protein-protein interaction networks in Alpha-1-Antitrypsin	
11.30-11.50 (20 mins)	<i>Owen Jonathan</i> , JMP Statistical Discovery Gold Sponsor Talk: Innovate faster with smarter experimentation	
11.50-12.05	Tea/Coffee break	
12.05-12.25 (20 mins)	<i>Zijie Dai</i> - Ion-mobility, native MS, early oligomerisation, structural MS	Session Chair: <i>Leon Barron</i> RSC SSG
12.25-12.45 (20 mins)	<i>Brian van't Veer</i> - Combined size- and composition analysis of nanoplastics using hydrodynamic chromatography hyphenated to pyrolysis-gas chromatography mass spectrometry	
12.45-13.05 (20 mins)	<i>Kacper Kulikowski</i> - Evaluating the mobility-size-shape relationship of nanosized ions across size-pressure scales in Ion Mobility Spectrometry (IMS)	
12.45-13.35 (50 mins)	Keynote: Drew Szabo - Sponsored by Separation Science Group Bioconcentration predictions from tandem mass spectrum – HRMS Prioritisation Strategies	
13.35-14.10	Lunch	
14.10-14.30 (20 mins)	<i>Brícia Marques Parreiras</i> - Chemical characterization of propolis from Vale do Jequitinhonha (Brazil) using LC–MS and chemometric analysis	Session Chair: <i>Milena Quaglia</i> RSC ABG
14.30-14.50 (20 mins)	<i>Amar Rai</i> - De novo structural elucidation of drug metabolites using an integrated MS/MS, ion mobility, and computational fragmentation framework	
14.50-15.10 (20 mins)	<i>Joanne Walter</i> , Fidabio Gold Sponsor Talk: Flow Induced Dispersion Analysis (FIDA): Bringing physics to structural biomolecular characterization	
15.10-15.25	Tea/Coffee break	
15.25-15.45 (20 mins)	<i>Mahjoobeh Ehsani, Di Zhu</i> - mapping protein structural dynamics in cells using quench-enrichment HDX-MS	Session Chair: <i>Mark Dickman</i> RSC ABG
15.45-16.35 (50 mins)	Keynote: Valeria Calvaresi Hydrogen-deuterium exchange mass spectrometry combined to mass photometry to decipher mechanisms of virus entry and evolution	
16.35-16.45	Final words and end of first day	
19.30-22.00	Drinks and Networking	

Schedule Day 2 (Friday 26th June)

Time	Event	Chair
09.00-09.15	Arrival and tea/coffee	
09.15-09.35 (20 mins)	VRS Recruitment Gold Sponsor Talk	Session Chair: Lynn Dennany ABG & ESSG
09.35-09.55 (20 mins)	Adam M. Miah - Comprehensive characterisation of circRNA therapeutics	
09.55-10.15 (20 mins)	Lauren Wright - Development of a MazF toolbox for the identity characterisation of mRNA therapeutics/vaccines	
10.15-10.35 (20 mins)	Olivia Gray - Characterisation of the lipid nanoparticle protein corona and its impact on RNA delivery efficiency	
10.35-11.25 (50 mins)	Keynote: Amparo Güemes González - Sponsored by Electroanalytical Sensing Systems Group Organic bioelectronic interfaces for decoding peripheral neural signals of metabolic function	
11.25-11.40	Tea/Coffee break	
11.40-12.00 (20 mins)	Pascale Rae - Critical quality attributes of SM-102 lipid nanoparticles and TAT DMG-PEG polyplexes for MALAT1 ASO delivery	Session Chair: Eamonn Reading RSC ABG
12.00-12.20 (20 mins)	Soumyadip Bhunia - Ultrafast electronic dynamics in semiconducting polyyenes and carbon dots	
12.20-13.10 (50 mins)	Keynote: Zeynep Betts From cells to products: What really drives performance in biopharma?	
13.10-13.40	Final words and presentation of prizes <i>Prizes sponsored by RSC Advances, Sensors & Diagnostics, Analyst</i>	
13.40-14.30	Lunch	
14.30-15.30	Tour of the facilities (optional)	

Venue for ECRM conference:

Waters Ltd, Stamford Avenue, Wilmslow, SK9 4AX, United Kingdom

Venue for conference Drinks & Networking:

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