



British Society for Matrix Biology

BSMB Autumn 2025

Uncovering the Matrisome: advances and trends in Matrix Research
Guildford, 2nd-3rd September 2025

Tuesday, September 2

Time Session/Info

Breakfast 8.30-9.30 Lower Concourse

8.30-12.15 SATELLITE EVENT: Employing the matrix: pathways to career

Lecture Theater D

Chair: Tina Burkhard, Alex Minns, & Dr. Frederic Buemi (University of Surrey)

8.30-9.30 Registration Lecture Theater B

9.30-9.50 Laura Mereweather, BHF Research Advisor (Basic Science Fellowships), "BHF Fellowship Opportunities"

9.50-10.10 Mark Crabtree, Senior Lecturer (University of Surrey), "My experience as a BHF Fellow"

10.10-10.30 Konstantina Kyriakopoulou, TheMeshwork, "Let's Mesh things up: Connecting researchers and empowering the Next Gen" (Teams)

10.30-10.50 Dr. Paola Campagnolo, Associate Professor (University of Surrey), "Caring for a career: challenges of navigating a scientific career as a woman and carer"

10.50-11.10 Patricia Badia Folgado "Beyond the Lab: a Career in Medical Writing"

11.10-11.30 Meet the company: Vicky Norris/ Alex Stretton (Parse Biosciences), "Entering the Commercial World"

11.35-12.15 Laura Mereweather, Mark Crabtree, Konstantina Kyriakopoulou, Paola Campagnolo, Patricia Badia Folgado, Vicky Norris, Alex Stretton & Kyle Legate (Scientific Editor, Cell Reports)

MAIN MEETING Lecture Theater D

12.00-13.00 Registration Lecture Theater B/Lunch Lower Concourse

13.00-16.00 Session 1: The Matrisome

Chair: Tina Burkhard (University of Surrey) and Dr Suneel Apte (Cleveland Clinic)

13.00-13.15	Welcome and opening remarks, Dr. Salvatore Santamaria (University of Surrey)
13.15-13.45	Invited speaker: Prof. Alexandra Naba (University of Illinois), "The Matrisome Project: From proteomic exploration of the extracellular matrix to matritherapies"
13.45-14.00	Selected talk 1 Fabio Grundland Freile (King's College London), "Defining the Extracellular Matrix Composition of CMS4 Colorectal Cancer"
14.00-14.15	Selected talk 2 Lorna Milne (University of Nottingham) "The development of ToF-SIMS for in-situ GAG analysis and its integration with multi-omics"
14.15-14.30	Selected talk 3: Kazuhiro Yamamoto (Tokyo University of Agriculture and Technology), "Novel insights into the multifaceted and tissue-specific roles of the endocytic receptor LRP1"
14.30-15.00	Invited speaker: Prof. Valerio Izzi (University of Oulu), "Matrisomics: tools and approaches to decipher matrisome patterns in the multiomics era"
15.00-16.00	Poster (<u>even poster numbers</u>) & Trade stands with Tea & Coffee, Lower Concourse

Time Session/Info

16.00-18.00 Session 2: Transcriptomics, Single Cell-Omics and the Matrisome

Chair: Ella Milne (University of Surrey) & Prof. Kim Midwood (University of Oxford)

16.00-16.30	Invited speaker: Prof. Sarah Snelling (University of Oxford) "Lessons Learned in Building a Cellular Atlas of the Human Musculoskeletal System"
16.30-16.45	Sponsor talk 1: Vicky Norris (Parse Biosciences) "The Future of Exponentially Scalable Single Cell-omics"
16.45-17.00	Selected talk 4 Chloe Yeung (University of Copenhagen) "Spatially distinct ECM-producing fibroblasts and myonuclei orchestrate early adaptation to mechanical loading in the human muscle-tendon unit"
17.00-17.15	Selected talk 5: Christabel Thembela Dube (University of Manchester) "High-resolution spatial transcriptomic and proteomic mapping of the developing human intervertebral disc"
17.15-17.30	Invited speaker: Dr. Alejandro Brenes (University of Edinburgh) "NETing and proangiogenic neutrophil states characterised in glioblastoma by single cell proteomics"
17.30-17.45	Comfort break
17.45-18.30	ECR AWARD and John Scott Lecture: Dr. Nicola Stevenson (University of Bristol), "The role of golgins in extracellular matrix secretion, modification and assembly"
18.30-19.30	Posters (<u>odd poster numbers</u>) and Drinks Reception, Lower Concourse
19.30-21.30	Conference dinner at the Green Room, Wates House Restaurant

Wednesday, September 3

Time Session/Info

Breakfast 8.00-9.00 Lower Concourse

8.00-9.00 Registration

9.00-11.30 Session 3: The Matrix in Development and Disease

Chair: Prof. Paola Campagnolo (University of Surrey) & Hannah Warren (University of Cambridge)

9.00-9.30 Invited speaker: Prof. Irit Sagi (Weizmann Institute), "Impact of Persistent Nascent ECM Damage Imprints on Incomplete Tissue Regeneration and Chronic Inflammatory Disease"

9.30-9.45 Selected talk 6: Joe Swift (University of Manchester) "Circadian and permanent pools of extracellular matrix co-exist in tendon, but have distinct rates of turnover and differential responses to ageing"

9.45-10.00 Selected talk 7: Kavitha Kirubendran (King's College London) "Fibrosis stage-specific matrix remodelling by hepatic stellate cells: a patient-derived model for liver fibrosis and antifibrotic drug discovery"

10.00-10.30 Invited speaker: Dr. Emily Noel (University of Sheffield), "MorphoHeart: Integrated 3D analysis of the cardiac ECM during heart morphogenesis"

10.30-11.00 Trade stands, refreshments, posters (even & odd numbers) & networking

11.00-12.30 Session 4: Novel approaches to investigate the Matrisome

Chair: Prof. Kazuhiro Yamamoto (University of Liverpool) & Dr. Frederic Buemi (University of Surrey)

11.00-11.15 Invited speaker: Dr. Rens de Groot (University College London), "Predicting ADAMTS protein conformations and substrate interactions using AlphaFold"

11.15-11.30 Selected talk 8: Mary Hines (University of Liverpool) "Taking the Bait: Using Chemical Tools to Capture and Profile Serine protease Activity in Osteoarthritis"

11.30-11.45 Selected talk 9: Jennifer Ashworth (University of Nottingham) "Precision Biomaterial Design for Organoid Culture using Multimodal Matrix Imaging"

11.30-11.45 Selected talk 10: Anthony Devlin (The Rosalind Franklin Institute) "Tools to uncover isomeric glycosylation in tissue"

12.00-12.30 Invited speaker: Prof. Cathy Merry (University of Nottingham), "SIMS-ToF applications"

12.30-12.35 Sponsor talk 2: Dammy Olayanju (PeptiMatrix), "Tuneable Animal-free Peptide Hydrogels for Reproducible Cultures"

12.30-14.00 Lunch at the Lower Concourse (posters, networking and trade stands)

Time Session/Info

14.00-15.45 Session 5: Proteomics and the Matrisome

Chair: Dr Anna Hoyle (University of Oxford) & Dr. Joe Swift (University of Manchester)

14.00-14.30	Invited speaker: Dr. Alexander Eckersley (University of Manchester), “Novel proteomic approaches for exploring organ-conserved extracellular matrix damage in ageing and disease”
14.30-14.45	Selected talk 11: Alexander Minns (University of Surrey), “An Analytical Pipeline to Selectively Enrich Proteoglycans and ECM Regulators from Human Aorta”
14.45-15.00	Selected talk 12: Tina Burkhard (University of Surrey), “Characterising ADAMTS8, a Protease Implicated in Pulmonary Arterial Hypertension”
15.00-15.30	Invited speaker: Dr Suneel Apte (Cleveland Clinic), “The osteoarthritis degradome and its translation for management of a global health challenge”
15.30-15.35	Sponsor talk 3: Baidurja Das (Sarstedt Ltd): “Sarstedt’s sustainability solutions”
15.35-15.45	Presentation of prizes and close of the meeting
16.00-19.00	BSMB Committee Meeting
