

Joint lifETIME | ECMage | BLAST Networking Conference Programme

Wednesday 31st January 2024

University of Birmingham | Edgbaston Park Hotel | Fry Suite

08:45	CDT Arrival and Admittance to Conference (Optional attendance for ECMage and BLAST networks)
09:00	Welcome: Prof Matthew Dalby , University of Glasgow
09:10-10.00	<p>CDT Session Chairs: Ibrahim Erbay, University of Galway. Mohamed Patel, University of Birmingham.</p>
	<p>10-minute talks: (8 – talk, 2 – Questions)</p> <p>09:10 Alexandre Trubert, University of Galway. <i>Bioactive hydrogels for stem cell engineering.</i></p> <p>09:20 Seb William Doherty-Boyd, University of Glasgow. <i>Synthetic niches for haematopoietic stem cell maintenance and genetic manipulation.</i></p> <p>09:30 Abigail Wright, University of Birmingham. <i>Control of ECM organization and the mechanical environment in a 'Joint on a chip' device.</i></p>
	<p>3-minute talks: (3 – talk, 2 – Questions)</p> <p>09:40 James Kennedy, University of Birmingham. <i>Recapitulating the liver tumour microenvironment using three-dimensional culture of human epithelial, endothelial, and immune Cells.</i></p> <p>09:45 Amaziah Alipio, University of Birmingham. <i>Cell-based therapies for liver regeneration.</i></p>
9:50	Break
10:00 – 10:35	<p>CDT Session Chairs: Rory Barnes, University of Glasgow. Megan Bannister, University of Birmingham.</p>
	<p>10-minute talks: (8 – talk, 2 – Questions)</p> <p>10:00 Ibrahim Erbay, University of Galway. <i>Integrated Computational-Experimental Analysis of Shear Impact on Intestinal Crypt Dynamics and Mucus Mechanics</i></p> <p>10:10 Edward Contreras, University of Birmingham. <i>Scaling-up of keratinocyte expansion for the treatment of large burn wounds.</i></p> <p>10:20 Sabah Sardar, University of Glasgow. <i>Identification of label-free biomarkers in visceral myopathy.</i></p>
	<p>3-minute talks: (3 – talk, 2 – Questions)</p> <p>10:30 Bianca Castelli, University of Galway.</p>

	<i>Precision clinical management of chronic neurodegeneration via novel point-of-care device.</i>
10:35	ECMage and BLAST Arrival / CDT Break and Poster Viewing
11:00	Welcome: Dr Elizabeth Laird , University of Liverpool, ECMage Director. Professor Richard Hartley , University of Glasgow, BLAST.
11:10 - 12:00	Chairs: Emma Kelly , University of Glasgow. Shaima Riha , University of Glasgow.
	10-minute talks: (8 – talk, 2 – Questions)
11:10	Viswanath Vittaladevaram , University of Galway. <i>Multiscale Characterisation of Synthetic Blood Brain Barrier Models.</i>
11:20	Jack Llewellyn , Royal Veterinary College <i>Loss of regulation of protein synthesis and turnover underpins an attenuated stress response in senescent human mesenchymal stem cells.</i>
11:30	Meredith Whitehead , King's College, London <i>Age-associated modifications to the extracellular matrix promote VSMC osteogenic differentiation.</i>
11:40	Dr Aleksey Belikov , University of Birmingham <i>Single Cell atac-seq highlights the importance of focal adhesions in human ageing</i>
11:50	Yusuf Hukan Usta , University of Manchester <i>Mechano-chemical Response of bone marrow mesenchymal stem cells (BM-MSCs) to age-associated changes in ECM stiffness and pH.</i>
12:00 – 12:30	Keynote Speaker: Professor Matt Dalby , University of Glasgow <i>Technology towards large-scale mesenchymal stromal cell growth - targeting cell ageing</i>
12:30 - 13:30	Lunch and Poster Viewing
13:30 – 13:50	Chairs: Adam Efrat , University of Birmingham. Amrutha Varshini Hariharan , University of Galway.
	10-minute talks: (8 – talk, 2 – Questions)
13:30	Elly Tyler , Queen Mary University, London <i>Identifying a breast ageing ECM signature to inform a 3D ageing tissue model.</i>
13:40	Ioannis Angelos Tsigkos , University of Glasgow <i>Mimicking the leukemic microenvironment via using soft polyethylglycol gels.</i>
13:50 - 14:20	Keynote Speaker: Prof. Sharon Gerech t, Associate Dean for Research and Infrastructure, Pratt School of Engineering, Duke University <i>Tissue engineering approaches to study how the aging extracellular matrix regulates vascular function</i>

14:20 - 14:50	14:20 Introduction to EDI Sandpit Session: Dr Lisa White , University of Nottingham Dr David Fraser , Author and Consultant on Leadership, Relationships and Scientific Collaboration 14:35 ECMage EDI Committee introductions 14:50 EDI Round Table Discussions
15:30 15:50	Networking/Coffee Break
15:50 17:00	15:50 Ranking of EDI discussion points (within the table) 16:05 Shared table discussion and priority selection 16:55 Closing Summary Dr Lisa White and Dr David Fraser
17:00	Close
18:30	Drinks Reception
19:00	Conference Meal & Quiz