



E2BRN meeting @ ESDR2025 Antwerp, Belgium | PROGRAMME

10th of September 2025; Flanders Meeting & Convention Center, Room 4/Gorilla 1

Morning E2BRN	
9.00-9.05	<u>MEETING OPENING</u> Danuta Gutowska-Owsiak (<i>University of Gdańsk, Poland</i>) and Ryan O'Shaughnessy (<i>Queen Mary University of London, UK</i>)
9.05-10.15	<u>SESSION 1: SKIN MICROBIOME</u> <i>Chairs: Danuta Gutowska-Owsiak and Ana Isabel Barbosa</i> <u>Keynote lecture:</u> Ellen H van den Bogaard (<i>Radboud University, Nijmegen, the Netherlands</i>) <i>Regulation and targeting of epidermal differentiation by Aryl Hydrocarbon Receptor ligands</i> <u>Short communications:</u> - EcpA-Mediated Skin Protein Degradation by Staphylococcus epidermidis in Atopic Dermatitis <i>V. Patra, J. Tavernier, M. Donovan, A. Ben Mlouka, L. Simonetti, M. Brossat, C. Clavaud, D. Bernard; L'Oreal Advanced Research, France</i> - Solar Simulated Radiation Alters the Tryptophan Metabolism and Barrier-Modulating Properties of Skin Commensal Bacteria <i>S. Mercer¹, A. Elias¹, A.J. McBain¹, C. O'Neill¹</i> <i>1. The University of Manchester, Manchester, England, UK</i> - Inhibition of mechanistic target of rapamycin (mTORC1) signalling by Lactobacillus rhamnosis GG in human keratinocytes <i>L. Coppock¹, R. O'Shaughnessy¹, C. O'Neill²</i> <i>1. Queen Mary University of London, UK</i> <i>2. The University of Manchester, UK</i>
10.15-10.45	<u>POSTER VIEWING + COFFEE/TEA</u>
10.45-12.15	<u>SESSION 2: KERATINOCYTE BIOLOGY</u> <i>Chairs: Esther Hoste and Aleksandra Siedlar</i> <u>Short communications:</u> Exploring the Effect of Skin Ageing-Related Basement Membrane Collagen Loss on the Nucleus and Epidermal Homeostasis <i>S. Summan¹, M. Patel¹, P. Madapura¹, F. Shah¹, A. E. Mayes², D. Gunn³, J. Gautrot⁴, M. Caley¹, E. A. O'Toole¹</i> <i>1. Blizzard Institute, Queen Mary University of London, UK</i> <i>2. Unilever R&D Colworth, Bedford, UK</i> <i>3. Unilever Biosciences Innovation Hub, King's College London, UK</i> <i>4. School of Engineering and Materials Science, Queen Mary University of London, UK</i>

	• Elevation of Intracellular Bulk Water Content Coincides with Calcium Ion Influx during Corneoptosis in Stratum Granulosum Cells <i>T. Matsui</i>^{1, 2, 3}, <i>S. Kawanami</i>¹, <i>K. Shiraga</i>⁴, <i>Y. Ogawa</i>⁵, <i>M. Amagai</i>³ 1. <i>Bionics Program, Graduate School of Bionics, Computer and Media Science, Tokyo University of Technology, Hachioji, Tokyo, Japan.</i> 2. <i>RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan.</i> 3. <i>Department of Dermatology, Keio University School of Medicine, Tokyo, Tokyo, Japan.</i> 4. <i>Graduate School of Agriculture, Kyoto University, Kyoto, Japan.</i> 5. <i>Institute for Advanced Medical Sciences, Hyogo Medical University, Nishinomiya, Hyogo, Japan.</i> • The role of lamina-associated domains (LADs) and 3D genome architecture in the establishment of epidermal barrier. <i>Y. Altalli</i>^{1,2}, <i>B. Krist</i>^{1,2}, <i>T. Doran</i>^{1,2}, <i>A. Plewinski</i>², <i>M. Gdula</i>^{1,2} 1. <i>Institute of Molecular Biology and Biotechnology, Faculty of Biology, Adam Mickiewicz University in Poznan, Poland</i> 2. <i>Centre of Advanced Technologies, Adam Mickiewicz University in Poznan, Poland</i> • Comparative transcriptomics reveals evolutionarily conserved roles of the epidermal differentiation complex in the skin and the esophagus <i>A. Sachslehner</i>¹, <i>L. Eckhart</i>¹ 1. <i>Department of Dermatology, Medical University of Vienna, Vienna, Austria</i> • E2BRN update Danuta Gutowska-Owsiak (<i>University of Gdańsk, Poland</i>) and Ryan O'Shaughnessy (<i>Queen Mary University of London, UK</i>)
12.15-13.15	LUNCH AND POSTER SESSION
Afternoon E2BRN	
13.15-14.15	<u>SESSION 3: DISEASE AND MODELS</u> <i>Chairs: Ryan O'Shaughnessy and Simranpreet Kaur Summan</i> <u>Keynote lecture:</u> Carlen Niessen (<i>University of Cologne, Germany</i>) <i>Mechanochemical regulation of epithelial barriers in health and disease</i> <u>Short communications</u> • Beyond scratching the surface: predicting the epidermal barrier effects of nanoplatforms for Atopic Dermatitis treatment by synchrotron-based FTIR microspectroscopy <i>A. I. Barbosa</i> (1, 2, 3, 4); <i>I. Yousef</i> (5); <i>S. Lima</i> (2, 4); <i>S. Reis</i> (2, 3) 1. <i>International Iberian Nanotechnology Laboratory, Braga, Portugal;</i> 2. <i>Associated Laboratory for Green Chemistry, Network of Chemistry and Technology, Porto, Portugal</i> 3. <i>Faculdade de Farmácia, Universidade do Porto, Porto, Portugal;</i> 4. <i>Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto, Porto, Portugal;</i> 5. <i>ALBA Synchrotron, Barcelona, Spain</i>

	• Transcriptomic profiling of hyperkeratotic hand eczema skin with comparison to atopic dermatitis and psoriasis <i>W. Zhou, L. Loman, M. Schuttelaar, Department of Dermatology, University Medical Center Groningen, University of Groningen, Groningen, Netherlands</i> • Genome-Wide Association Study of Skin Barrier Function in a Multi-Ethnic Southeast Asian Population Cohort indicates a mechanistic link with asthma. <i>H. Ng 1, P. Jain 1, D. Tay 1, M. Loh 1, S.J. Brown 2, Y. Yew 3</i> 1. Lee Kong Chian School of Medicine, Singapore, Singapore 2. Institute of Genetics and Cancer, University of Edinburgh, Edinburgh, United Kingdom 3. National Skin Centre, Singapore
14.30- 15.15	POSTER VIEWING + COFFEE/TEA
15.15-16.30	<u>SESSION 4: SKIN BARRIER</u> <i>Chairs: Michał Gdula and Sophia Maschalidis</i> <u>Short communications</u> • Biophysical Studies of Stratum Corneum Lipid Organisation and Barrier Function Following Thermal Perturbation <i>David J. Moore¹</i> 1. University of Edinburgh, Edinburgh, UK • TRPV1-overexpressing keratinocytes reveal sensory mechanisms and barrier disruption in sensitive skin <i>E. Chung, S. Kim¹, H. Kim², S. Kim², Y. Nho², S. Kang²</i> 1. Seoul National University College of Medicine, Jongno-gu, Seoul, The Republic Of Korea 2. Bti R&I, Cosmax Inc, Seongnam-Si, Gyeonggi-Do, The Republic of Korea • Dissimilar roles for papillary and reticular fibroblasts in skin barrier integrity: insights from in vitro 3D fibroblast-derived matrix models <i>A. Louis¹, M.H. Rietveld¹, A. El Ghalbzouri¹, R. Halkoum², G. Gendronneau², C. Mergen³,</i> 1. Dermatology, Leids Universitair Medisch Centrum, Leiden, Zh, Netherlands 2. Chanel Parfums Beauté, Skin Biology Laboratory, Chanel Fragrance & Beauty, Paris, France 3. Universiteit Leiden Leiden Academic Centre For Drug Research, Leiden, Zh, Netherlands
	ANNOUNCEMENT OF PRIZES MEETING CLOSURE <i>Danuta Gutowska-Owsiak and Ryan O'Shaughnessy</i>
From 19.00	E2BRN SOCIAL EVENT - Brasserie Appelmanns, Antwerp