

BSID Annual Meeting 2022
Newcastle Upon Tyne
Monday 4th – Wednesday 6th
April 2022

Monday 4th April 2022

- 08:30 Registration, Commercial Exhibition & ePosters
- 09.00 Welcome
Dr. Daniele Bergamaschi (BSID Chair) & Dr. Neil Rajan (BSID 2022 Local Organiser)

Scientific Session A - Cell Biology 1

Chairs: Miriam Wittmann and Matt Caley

- 09:05 O1 RhoE contributes to dermal fibroblast extracellular matrix organisation and integrin-dependent adhesion.
Sofia Endzhievskaya, Chao-Kai Hsu, Tanya Shaw, John A. McGrath, Maddy Parsons
- 09.17 O2 Chronic inflammation impairs autophagy in psoriasis.
Nazia Uddin, Paola Ostano, Giovanna Chiorino, Mike Philpott, Rosalind Hannen, Daniele Bergamaschi
- 09.29 O3 Identification of a role for Aquaporin 5 in regulation of the actin cytoskeleton and cell-cell adhesion in keratinocytes.
Laura Ramos, Yaseen Yousaf, David Kelsell, Diana Blaydon
- 09.41 O4 Reduced Filaggrin expression is associated with increased BMP signalling.
Aaron Hughes, Bjorn Thomas, Edel O'Toole, Ryan O'Shaughnessy
- 09.53 O5 The human Discs large protein (Dlg1) controls Connexin 43 (Cx43) trafficking to the plasma membrane and gap junctional communication in keratinocytes.
Harry Scott, Li Dong, Sharmila Srinivasan, Andrew Stevenson, Alasdair MacDonald, Paola Massimi, Lawrence Banks, Malcolm Hodgins, Patricia Martin, Scott Johnstone, Sheila Graham

10.05 Break – Commercial Exhibition & ePosters

BSID Skin Club: “Diverse skin research career paths”

Chairs: Muzlifah Haniffa and Neil Rajan

A session promoting equity and dialogue around challenges faced by clinical and basic science researchers

- 10.35 Introduction
Prof. Muzlifah Haniffa
Wellcome Trust Senior Research Fellow in Clinical Science, Lister Institute Prize Fellow, Professor of Dermatology and Immunology, Newcastle University and the Wellcome Sanger Institute.
- 10.40 Should I stay or should I go - parallels between disease driving resident T cells and my career in science?
Prof. Liv Eidsmo
*Executive Director, Professor of Translational Skin Immunology
LEO Foundation Skin Immunology Research Center.*
- 10.55 Dr. Satveer Mahil
Consultant Dermatologist - St John's Institute of Dermatology, Guy's and St Thomas' NHS

Foundation Trust, London, Adjunct Senior Lecturer at King's College London, UK.

- 11.05 Adventures in Skin Epidemiology
Prof. Sinead Langan
*Professor of Clinical Epidemiology & Wellcome Senior Clinical Fellow
London School of Hygiene & Tropical Medicine.*
- 11.20 How on Earth did I get here? Failures and Success as a skin scientist
Dr. Matthew Caley
*Lecturer in Cell Biology, Cell Biology and Cutaneous Research
Blizard Institute, Queen Mary University of London.*
- 11.30 Panel discussion on challenges relating to inequity facing scientists

11.50 Break

- 12 00 Freckles, melanoma and a Latin America vibe
Dr. David Adams
*Senior Group Leader, Experimental Cancer Genetics
Wellcome Sanger Institute.*
- 12.15 My journey into skin research
Dr. Hudaa Gopee
*MRC Clinical Research Fellow,
Newcastle University.*
- 12.25 Diversity in Research in East London
Prof. Edel O'Toole
*Professor of Molecular Dermatology & Centre Lead: Cell Biology and Cutaneous Research,
Blizard Institute, Queen Mary University of London.*
- 12.40 Pharmacoepidemiology in Dermatology – My Career Path
Dr. Zenas Yiu
NIHR Clinical Lecturer in Dermatology, University of Manchester.
- 12.50 Panel discussion on solutions and initiatives that have been put in place to address inequity in science

13.05 Lunch, Commercial Exhibition & ePosters (Even Numbers)

- 14.05 Opportunities for early career researchers and science engagement initiatives from the BSID
Paola di Meglio & Girish Patel
- 14.25 **Distinguished Local Lecture - Building a positive research culture at Newcastle University**
Introduction by Neil Rajan – BSID Local organiser

Prof. Candy Rowe
*Professor of Animal Behaviour and Cognition,
Dean of Research Culture and Strategy, Newcastle University.*

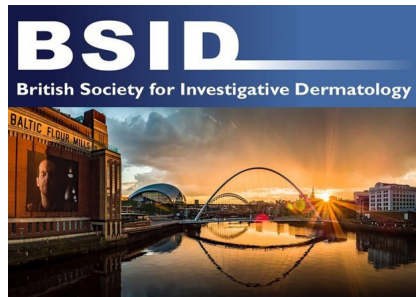
15.05 Break

- 15.20 Early Career Investigator Award 2022
Introduction - Dr. Daniele Bergamaschi (BSID Chair)

16.05 Break

16.20 AGM (BSID Members Only)

- 17.00 Close of Day 1
19.00 Welcome Reception - Lane 7



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Tuesday 5th April

Scientific Session B - Cell Biology 2

Chairs: Marta Polak and Laure Gambardella

- 08:30 Commercial Exhibition & ePosters
- 09:00 O6 Application of skin organoid model to investigate gene-environment interaction *in vitro*.
Luke Johnston, Mona Etorban, Martina Elias, Sara Brown
- 09.12 O7 Hydroxypyridone anti-fungals display anti-fibrotic effects in in vitro models of hypertrophic scarring.
Alice Laphorn, Marcus Ilg, Justine Sullivan, Peter Dziejwski, Selim Cellek
- 09.24 O8 Mechanosensing and cellular signalling in normal and keloid dermal fibroblasts.
Rosie Ross, Tanya Shaw, John Connolly
- 09.36 O9 A supracellular actin network coordinates anisotropic ECM remodelling in fibrotic fibroblasts.
Fiona Kenny, Stefania Marcotti, Rachel Bell, Jennifer Easton, María Díaz-de-la-Loza, Roland Fleck, Leanne Allison, Christina Phillipeos, Angelika Manhart, Tanya Shaw, Brian Stramer
- 09.48 O10 Understanding the role of the actin remodelling in nuclear degradation in terminally differentiating keratinocytes.
Duncan Wotherspoon, Clare Rogerson, Ryan O'Shaughnessy

10.00 **Break – Commercial Exhibition & ePosters**

Scientific Session C - Immunology

Chairs: Paola DiMeglio and Liv Eidsmo

- 10.30 O11 Skin Tregs generated early in life are crucial for melanocyte function.
Inchul Cho, Zihui Xu, Niwa Ali
- 10.42 O12 Understanding dynamic immune responses within a fluidic 3D in vitro human skin model.
Sarah Hindle, John Connolly
- 10.54 O13 Increased expression of Programmed Death Ligand 1 in IFN-gamma-treated hair follicles: a dynamic follicular immune checkpoint.
David Rutkowski, Susan Limbu, Ralf Paus
- 11.06 O14 Programmed Cell Death-1 Receptor (PD-1) mediated regulation of Tbet+ innate lymphoid cells within the tumour microenvironment.
Jing Xuan Lim, Chester Lai, Grace Mallett, David McDonald, Gillian Hulme, Rafiqul Hussain, Arron Scott, Stephanie Laba, Megan Payne, Warren Patterson, Michael Alexander, Juan Ojeda-Garcia, Jonathan Coxhead, Andrew Filby, Ruth Plummer, Penny Lovat, Eugene Healy, Shoba Amarnath
- 11.18 O15 Jagged1 (Jag1) expressing Skin-resident Regulatory T Cells (Tregs) regulates epithelial stem cell homeostasis and human skin health.
Prudence Lui, Niwa Ali

11.30	Break
11.45	<p>British Photodermatology Group Guest Lecture - Skin cancer induction by the antimycotic drug voriconazole is caused by impaired DNA damage detection due to chromatin compaction Prof. Mark Berneburg <i>Director of the Clinic and Polyclinic for Dermatology, University Hospital Regensburg, Germany.</i></p>
12.30	Lunch, Commercial Exhibition & ePosters (Odd Numbers)
Scientific Session D – Genetics	
Chairs: Neil Rajan and Alexandros Onoufriadis	
13.30	<p>O16 Dissecting the cellular landscape of human skin across anatomical sites through single cell transcriptomics and in situ sequencing. <i>Clarisse Ganier, Nasrat Harun, Fiona Watt, Magnus Lynch</i></p>
13.42	<p>O17 A homozygous missense mutation in the ribosome biogenesis factor gene <i>LTV1</i> underlies a new autosomal recessive poikiloderma-like disorder, LIPHAK. <i>John McGrath, Ji Hoon Han, Gavin Ryan, Mathieu Quinodoz, Ingrid Helbling, Joey Lai-Cheong, Genomics England Research Consortium, Julian Barwell, Marc Folcher, Carlo Rivolta, Celia Moss</i></p>
13.54	<p>O18 New variants of adenine base editor correct RDEB mutations with high efficiency and a favourable safety profile. <i>Adam Sheriff, Ina Guri, Paulina Żebrowska, Virginia Llopis Hernandez, Imogen Brooks, Greg Newby, David Liu, Łukasz Łączmański, John McGrath, Joanna Jacków</i></p>
14.06	<p>O19 Immunoglobulin E is a potential driver of itch in dystrophic epidermolysis bullosa pruriginosa through autoimmune inflammation. <i>Maria Papanikolaou, Sarah Ward, Marta Tesfamicael, Leigh Nattkemper, Yikui Xiang, John Mee, Gil Yosipovitch, Marcus Maurer, Stephen Till, Jemima Mellerio, Hannah Gould, J. McGrath</i></p>
14.18	<p>O20 The role of the Laminin 332-Actin-Cholesterol axis in skin conditions with altered lipid profiles. <i>Piotr Parzymies, Eleri Jones, Matthew Caley, Edel O'Toole, Andrew Mayes, David Messenger</i></p>
14.30	Break – Commercial Exhibition & ePosters
14.50	<p>Invited Lecture Meet the Editor: What makes a good BJD paper? Dr. John Ingram <i>Clinical Reader, School of Medicine - Cardiff University. Editor-in-Chief of the British Journal of Dermatology</i></p>
15.20	<p>Keynote Guest Lecture - Towards understanding psoriasis heterogeneity Prof. Catherine Smith <i>Professor of Dermatology and Therapeutics & Consultant Dermatologist St John's Institute of Dermatology, London.</i></p>
16.00	Break
16.15	<p>BSID Medal Presentation Introduction – Dr. Daniele Bergamaschi (BSID Chair)</p>
16.20	<p>Citation – Prof. Muzlifah Haniffa <i>Wellcome Trust Senior Research Fellow in Clinical Science, Lister Institute Prize Fellow, Professor of Dermatology and Immunology, Newcastle University and the Wellcome Sanger Institute.</i></p>
16.30	<p>Medal Presentation – Recipient: Prof. Edel O'Toole <i>Professor of Molecular Dermatology & Centre Lead: Cell Biology and Cutaneous Research, Blizard Institute, Queen Mary University of London.</i></p>

- 16.45 Close of Day 2
 19.00 Welcome Reception - SIX restaurant at the BALTIC art gallery



Wednesday 6th April

- 08.30 Exhibition & ePosters

Scientific Session E - Cancer

CHAIRS: Gareth Inman and Amaya Viros

- 09.00 O21 Primary cutaneous squamous cell carcinomas contain immune cell clusters consistent with tertiary lymphoid structures.
Riya Chundangayil, Chester Lai, Matthew Sommerlad, Eugene Healy
- 09.12 O22 Understanding the role of Kindlin-1 loss in the development and progression of squamous cell carcinoma.
D. Giovana Carrasco G., Ifigeneia Stravrou, Wanfei Xie, Emily Martin, Morwenna Muir, Martin Lee, Adam Byron, Valerie Brunton
- 09.24 O23 The role of STAT3 signalling driving cutaneous squamous cell carcinoma in recessive dystrophic epidermolysis bullosa.
Virginia Llopis-Hernandez, Jemima Mellerio, John A. McGrath, Joanna Jacków
- 09.36 O24 Azacitidine induces a dsRNA stress response in melanoma cell lines via pattern recognition receptors.
Shaymaa Sadeq, Andreas Werner, Glyn Nelson

09.48 **Break - Commercial Exhibition & ePosters**

Scientific Session F - Clinical Research

CHAIRS: Girish Patel and Abigail Langton

- 10.15 O25 Melanoma secretion of TGFβ2 induces loss of AMBRA1 in the peritumoural epidermis, disrupting epidermal integrity and facilitating tumour ulceration.
Ioana Cosgarea, Ashleigh McConnell, Tom Ewan, Diana Tang, David Hill, Marie-Eleni Anagnostou, Martina Elias, Rob Ellis, Aisling Murray, Lindsay Spender, Paola Giglio, Mara Gagliardi, Alison Greenwood, Mauro Piacentini, Gareth Inman, Gian-Maria Fimia, Marco Corazzari, Jane Armstrong, Penny Lovat
- 10.27 O26 IL-23-induced STAT3 translocation in MAIT cells at baseline is a candidate biomarker of response for biologics targeting the IL-23/IL-17 axis.
Shane Solanky, Rosa Andres Ejarque, Salma Khan, Isabella Tosi, Hannah Dawe, Nick Dand, Satveer Mahil, Michael R Barnes, Christopher EM Griffiths, Nick J Reynolds, Catherine H Smith, Richard B Warren, Jonathan Barker, Paola Di Meglio, on behalf of the PSORT Consortium
- 10.39 O27 Skin microbiome – host interactions in atopic dermatitis.

Helen Alexander, David Moyes, Sophia Tsoka, Saeed Shoaie, Richard Woolf, Catherine Smith, Magnus Lynch, Jonathan Barker, Carsten Flohr

10.51 O28 The baseline frequency of intermediate monocytes is a candidate biomarker for clinical response to secukinumab in the treatment of psoriasis.
Jonathan Hardman-Smart, Rosa Andres Ejarque, Shane Solanky, Isabella Tosi, Katarzyna Grys, Federica Villanova, Michael Barnes, Jonathan Barker, Christopher Griffiths, Nick Reynolds, Catherine Smith, Richard Warren, Paola Di Meglio, On behalf of the PSORT Consortium

11.05 **Break - Tea/Coffee & Commercial Exhibition**

11.30 BSID 2022 Prizes

12.00 BSID Chair summary and closing remarks

12.30 **Lunch & Close of meeting**