



Skin@Bath Program Overview

Wednesday 14th December 2022

19.00-20.00 [Welcome Drink Reception](#) Venue: Victoria Art Gallery Museum, Bath

(For registered attendees only; Not for sponsors)

Thursday 15th December 2022 Venue: Guildhall, Bath

8:00-8:30 **Registration and Coffee / Tea Break** (Guildhall foyer)

8:30- 8:50 [Welcome Speeches](#) (Banqueting room) [Chair: **Ian Blagbrough**]

8:30 **Caoimhe Fahy** and **Charareh Pourzand** [short welcome - 5 min]

8:35 **Adele Murrell**, Head of Life Sciences Department, University of Bath [5 min]

8:40 **Banafshe Larijani**, Director of Centre for Therapeutic Innovation [5 min]

8:45 **Celia Mead**, Director of Bath Institute for Rheumatic Disease, Nick Hall memorial [5 min]

8:50-9:20 [Short Oral Presentations \(SOP\) I](#) (Banqueting room) [Chair: **Ian Blagbrough**]

8:50 **The use of confocal Raman as a non-invasive method to assess drug pharmacokinetics and bioavailability in the skin.** [10 min]

Nota Zarnpi, Department of Life Sciences, University of Bath, Bath, UK

9:00 **Investigating RHO kinase inhibition of epidermal stem cells: The promise of infinite skin graft generation?** [10 min]

Benjamin P. Flynn, Department of Life Sciences, University of Bath, Bath, UK

9:10 [Selected SOP - Title, \(10 min\)](#)

Name & Institution

9:20-09:45 [Keynote speaker I](#) (Guildhall-Banqueting room) [Chair: **Rex Tyrrell**]

Skin Pigmentation and Damage [25 min]

Antony Young, King's College London, United Kingdom

*******09:45-10:10 Coffee / Tea Break*******

10:10-11:40 Session I: Skin aging and photo-aging [Chair: **Rex Tyrrell]**

10:10 **Skin Aging and Systemic Inflammaging** [25 min]

Rachel Watson, University of Manchester, UK

10:35 **Ultraviolet radiation-induced degradation of dermal extracellular matrix and protection by green tea catechins: a randomized controlled trial** [15 min]

Mark Farrar, University of Manchester, UK

10:50 **Sunscreens: Study of Irritation and Permeation** [15 min]

Karl Lawrence, Keratify, UK

11:05 **Antioxidant function of a key metabolic integrator coenzyme A in cellular responses to oxidative or metabolic stress** [15 min]

Ivan Gout, University College London, London, UK

11: 20 Targeting cell signalling regulation in Skin aging and photoaging [20 min]

Pornngarm Dejkriengkraikul, Chiang Mai University, Chiang Mai, Thailand

11:40-12:05 State of the Art Lecture I (Banqueting room) [Chair : **Ioav Cabantchik]**

The Fusion of Quantitative Molecular Proteomics and Immune-oncology: A Step towards Precision Medicine in Cancer Therapeutics [25 min]

Banafshe Larijani, Centre for Therapeutic Innovation, University of Bath, UK

*******12:05-14:05 Lunch Break & Poster Presentation*******

Parallel Lunchtime Session I [12:45-13:55] (Banqueting room)

[Chair: **Chris Lovell & Richard Guy**]

12:45 NIHR Clinical Research Network - Supporting Dermatology Research [20 min]

Hannah Williams, Greater Bristol Area, United Kingdom

13:05 Research with impact: Transdermal Diagnostics - a University of Bath spin-out [20 min] *Luca Lipani, Department of Life Sciences, University of Bath, Bath, UK*

13:25 *The use of teledermatology around the world and in a tertiary centre in the UK* [20 min]

Charan Singh Thandi, University Hospitals Bristol and Weston NHS Foundation Trust

13:45 Combination of cold atmospheric plasma and biomimetic membrane as a versatile toolbox in redox medicine [10 min] *Mehdi Ravandeh, Leibniz Institute for Plasma Science and Technology, Greifswald, Germany*

Parallel Lunchtime session II (sponsored) [12:45-13:45] (Brunswick room)

[Chair: **TBC**]

12:45 Sponsored talk 1
[20 min] **Name**, Institution

13:05 Sponsored talk 2
[20 min] **Name**, Institution

13:25 Sponsored talk 3
[20 min] **Name**, Institution

14:05-15:20 Session IIa: Skin melanoma cancer (Banqueting room)

[Chairs: *Ute Jungwirth & Keith Vance*]

14:05 Current Melanoma Treatments: An overview [30 min]
Mark Middleton, University of Oxford & Cancer Research UK Oxford, UK

14:35 Phenotypic heterogeneity in melanoma [30 min]
Colin Goding, Ludwig Cancer Research, University of Oxford, UK

15:05 MITF-SOX10 regulated long non-coding RNAs in melanoma [15 min]
Keith Vance, Department of Life Sciences, University of Bath, UK

*******15:20-15:45 Coffee/Tea Break*******

15:45-17:05 Session IIb: Skin non-melanoma cancer (Banqueting room)

[Chairs: **Ute Jungwirth & Gernot walko**]

15:45 Current treatments for basal cell carcinoma: An Overview [25 min]
Girish Patel, Welsh Institute of Dermatology, University Hospital of Wales & Cardiff Univ, UK

16:10 The Roles of YAP/TAZ and the Hippo Pathway in non melanoma skin cancer
[15 min] **Gernot Walko**, *Department of Life Sciences, University of Bath, UK*

16:25 The role of microRNAs in skin cancer
[20 min] **Pinar Uysal Onganer**, *Department of Life Sciences, University of Westminster, UK*

16:45 Importance of tissue-relevant oxygen concentrations when testing cytotoxic redox-active drugs in cultured human skin cancer cells [20 min]
Paul Winyard, University of Exeter Medical School, Exeter, UK

17:05-17:30 [Keynote speaker II](#) (Banqueting room) [Chair : **Rex Tyrrell**]

Ethnic Skin photoprotection [25 min]

Paul Matts, Procter & Gamble, UK

17:30-18:00 [Welcome note:](#) (Banqueting room)

[Chairs : **Caoimhe Fahy and Charareh Pourzand**]

Prof Ian White, Vice Chancellor, University of Bath

19:30-23:00 [Banquet dinner](#) (Guildhall, Banqueting room)

Social event: *(For registered attendees only; Not for sponsors)*

Friday 16th December 2022 (Guildhall, Bath)

8:00-8:15 **Registration and Coffee / Tea Break** (Guildhall foyer)

8:15-8:45 [Short Oral Presentations \(SOP\) II](#) [(Banqueting room)

[Chair: **Faiza Banaouda**]

8:15 **Selected SOP - Preventing cutaneous sensitization to allergenic proteins using a novel barrier cream**, (10 min)

Sumayah Abdul-Jabbar, King's College London, London, UK

8:25 **Selected SOP - Speaker 2 Title**, (10 min)

Name & Institution

8:35 **Selected SOP Reverse iontophoresis to predict topical bioavailability** (10 min)

Kieran Moore, Department of Life Sciences, University of Bath, Bath, UK

8:45-9:10 [Keynote speaker III](#) (Banqueting room) [Chair: **John Westwick**]

Skin Sensory Dysfunction Produced by Chemotherapeutic drugs [25 min]

Antonio Vicente Ferrer Montiel, Instituto de Investigación, Desarrollo e Innovación en Biotecnología Sanitaria de Elche (IDiBE), Universitat Miguel Hernández, Elche, Spain.

9:10-9:35 State of the Art Lecture II (Guildhall-Banqueting room) [Chair: **Ioav Cabantchik**]

Cold Physical Plasma as a Clinical Device and Biomedical research tool. [25 min]

Kristian Wende, Leibniz Institute for Plasma Science and Technology (INP Greifswald), Center for Innovation Competence (ZIK) plasmatix, Greifswald Germany

*******09:35-10:00 Coffee/Tea Break*******

10:00 -11:20 Session III: Skin and Inflammation (Banqueting room)

[Chairs: **John Westwick and Steve Ward**]

10:00 **Predicting Psoriatic Arthritis** [20 min]

Neil McHugh, Department of Life Sciences, Centre for Therapeutic Innovation, University of Bath, UK

10:20 **The Psoriatic arthritis: Treatment options with biologic and targeted synthetic DMARDs** [20 min]

Will Tillet, Department of Life Sciences, Centre for Therapeutic Innovation, University of Bath; Royal National Hospital for Rheumatic Diseases, Bath, UK

10:40 **Sponsored talk- Psoriasis and atopic dermatitis: two sides of a coin?** [20 min]

Paola Di Meglio, King's College London, UK & Josie Evans, Medical Science Liaison, Dermatology, Sanofi, UK

11:00 **Psoriasis and Biologics** [20 min]

Kave Shams, Leeds Centre for Dermatology, Chapel Allerton Hospital, Leeds Teaching Hospitals NHS Trust; National Institute for Health Research-Leeds Biomedical Research Centre and Leeds Institute of Rheumatic and Musculoskeletal Medicine (LIRMM), Leeds, UK.

11:20-12:05 Session IV: Skin and Covid19 (Banqueting room)

[Chairs: **Marvin Edeas and Stuart Jones**]

11:20 **Covid 19, iron and the complexity of intertalk between the host and SARS-CoV-2 virus** [25 min]

Marvin Edeas, Université de Paris, INSERM U1016; Institut Cochin, CNRS UMR 8104; Laboratory of Excellence GR-Ex, Paris, France.

11:45 **Photoinactivation of coronaviruses with far UVC** [20 min]

Michael Conneely, University of Dundee, Dundee, UK.

12:05-12:35 **Keynote speaker IV** (Banqueting room) [Chair: **Ioav Cabantchik**]

Iron sensing and chelation for adjustment and removal of excess iron in health and diseases [30 min]

Robert Hider, King's College London, London, UK

*******12:35-14:15 Lunch Break & Poster Presentation*******

Parallel Lunchtime session III [13:15-14:10] (Banqueting room)

[Chair: **Chris Lovell**]

13:15 **Differences between adult and juvenile onset dermatomyositis including rash, calcinosis** [20 min]
Sarah Tansley, Department of Life Sciences, Centre for Therapeutic Innovation, University of Bath, UK

13:35 **Daylight PDT in Scotland** [20 min]
Marese O'Reilly, Department of Photodermatology, University of Dundee, Dundee, UK

13:55 **Smart implanted access port catheter for cancer therapy intervention with pH and lactate biosensors** [15 min]
Salzitsa Anastasova, Imperial College London, UK

Parallel Lunchtime session IV (Biomechanics and Biomedical Engineering) [13:15-14:05] (Brunswick room)

[Chairs: **Prof Li Yang and Prof Rex Tyrrell**]

13:15 **Tissue Mechanics in Haired Murine Skin: Potential Implications for Skin Aging** [10 min] **Mingxing Lei**, 111 Project Laboratory of Biomechanics and Tissue Repair; Key Laboratory of Biorheological Science and Technology of the Ministry of Education, College of Bioengineering, Chongqing University, Chongqing, China.

13:25 **MiR-300-GADD45B induced by UVB Irradiation Promotes melanoma Growth** [10 min] **Long Chen¹, Julia Li Zhong²**, School of Basic Medical Sciences, Chengdu Medical College, China, ²College of Bioengineering, Chongqing University, Chongqing, China.

13:35 **Large-Scale Isolation and Antitumor Mechanism Evaluation of Compounds from the Traditional Chinese Medicine Cordyceps Militaris** [10 min] **Yuijao Chen^{1,2}, Yuqian Wu², Julia Li Zhong¹**, ¹Key Laboratory for Biorheological Science and Technology of Ministry of Education, State and Local Joint Engineering Laboratory for Vascular implants, Bioengineering College and Life Science College, Chongqing University, Chongqing, China; ²Guizhou Gui'an Academy of Precision Medicine Co. Ltd., Gui'an, China.

13:45 **ALA-PDT and Mycobacterium abscessus infection of skin and soft tissue**

[10 min] **Xiaoyu Wang¹, Yadan Ding¹, Xia Lei², Julia Li Zhong¹**, ¹Key Laboratory for Biorheological Science and Technology, Ministry of Education, College of Bioengineering, Chongqing University, Chongqing, China; ²Department of Dermatology, Daping University, The Army Medical University, Chongqing, China.

13:55 Photobiology in China – photoinactivation and phototherapy [10 min]

Julia Li Zhong, ¹Key Laboratory for Biorheological Science and Technology, Ministry of Education, College of Bioengineering, Chongqing University, Chongqing, China; ²Department of Dermatology, Daping University, The Army Medical University, Chongqing, China.

14:15-15:55 Session V: Skin models of diseases and tissue regeneration

(Banqueting room) [Chairs: **Sara Anjomani-Virmouni and David Gurevich**]

14:15 **Fetal cells to help skin wound repair [25 min]**

Selim Aractingi, Université Paris Cité, CNRS, INSERM, Institut Cochin, Paris; Service de Dermatologie, Hôpital Cochin, Assistance Publique-Hôpitaux de Paris, France.

14:40 **Improve an old poison to treat profibrotic skin diseases [20 min]**

Carole Nicco, Université Paris Descartes, Sorbonne Paris Cité, INSERM U1016, Institut Cochin, CNRS UMR8104, Paris, France.

15:00 **Molecular mechanisms of melanin transfer and processing [20 min]**

Duarte Barral, Chronic Diseases Research Center (CEDOC), NOVA Medical School, NMS, Universidade NOVA de Lisboa, Lisbon, Portugal.

15:20 **Epidermal hepcidin in infectious and inflammatory diseases [20 min]**

Carole Peysonnaux, Université de Paris, Institut Cochin, INSERM, CNRS, F-75014 Paris; Laboratory of Excellence GR-Ex, Paris, France.

15:40 **Fluorescence-activated cell sorting and quantitative Real-Time PCR to reveal VEGF-expressing macrophage populations in the Zebrafish Larvae [15 min]**

David Gurevich, Department of Life Sciences, Centre for Therapeutic Innovation, University of Bath, Bath, UK

*******15:55 - 16:20 Coffee/Tea Break*******

16:20-17:15 Session VI: Skin delivery methods and measurements

(Banqueting room) [Chair: **Nikoletta Fotaki**]

16:20 **Stretching the skin to facilitate needleless delivery of vaccines [20 min]**

Faiza Benaouda, Institute of Pharmaceutical Science, Faculty of Life Sciences & Medicine, King's College London, London, UK

16:40 **Understanding vitamin D supplementation; effects of race and delivery route [20 min]**

Stuart Jones, Institute of Pharmaceutical Science, Faculty of Life Sciences & Medicine, King's

College London, London, UK

17:00 **Combined formulation and microporation approaches to improve antifungal nail therapies** [15 min]

Begona Delgado Charro, Department of Life Sciences, University of Bath, Bath, UK

17:15- 17:30 [Final Speeches](#) (Banqueting room) [**Chairs:** *C.Fahy and C.Pourzand*]

Final Acknowledgements/ Best Poster & Oral Presentation Prize Draw.