



# Skin@Bath Program

**Wednesday 14th December 2022**

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

(For registered attendees only; Not for sponsors)

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**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: **Chris Lovell**]

8:30 **Caoimhe Fahy and Charareh Pourzand** [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: **Nikoletta Fotaki**]

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

*Panagiota Zarnpi, Department of Life Sciences, University of Bath, Bath, UK*

9:00 **Biosensing -Micro/nano- scale devices for monitoring and drug delivery applications** [10 min]

*Ghazal Hatami-Fard, The Hamlyn Centre, Imperial College London, London, UK*

9:10 **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*

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

**MELANIN, DNA PHOTODAMAGE AND VITAMIN D SYNTHESIS [25 min]**

*Antony R Young, St John's Institute of Dermatology, King's College London, London, UK*

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

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

10:10 **The impact of the menopause on skin function [25 min]**

*Rachel Watson, University of Manchester, UK*

10:35 **UVR-induced degradation of dermal extracellular matrix and protection by green tea catechins [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\*\*\*\*\*

**Lunchtime Session [12:45-13:55]** (Kaposvar room)

[Chairs: **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] *Richard Guy*, 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, UK

**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

**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

**18:00-19:30 Drinks Reception** (Guildhall, Brunswick room)

**19:30-23:00 Banquet dinner** (Guildhall, Banqueting room)

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

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## **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 Benaouda**]

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 - Role of epidermal hepcidin in Psoriasis**, (10 min)

**Elise Abboud**, Université Paris Cité, CNRS UMR8104, INSERM U1016, Institut Cochin, Paris, France

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:** Ioav Cabantchik]

**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), Universitas 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 -11:00 [Session III: Skin and Inflammation](#) (Banqueting room)

[Chairs: Chris Lovell 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 Tillett, 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*

**11:00-11:45 [Session IV: Skin and Covid19](#)** (Banqueting room)

[Chair: **Stuart Jones**]

11:00 **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.*

11:25 **Photoinactivation of coronaviruses with far UVC** [20 min]

*Michael Conneely, University of Dundee, Dundee, UK.*

**11:45-12:15 [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*

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

**Parallel Lunchtime session II [13:10-14:05]** (Banqueting room)

[Chair: *Chris Lovell*]

13:10 **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*

13:30 **Daylight PDT in Scotland** [20 min]

*Marese O'Reilly, Department of Photodermatology, University of Dundee, Dundee, UK*

13:50 **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 III ((China-UK Skin Consortium – Dermatology, Skin and Biomechanics/Biomedical Engineering Research) [13:10-14:10]** (Kaposvar room)

[Chair: *Rex Tyrrell*]

**13:10 AI in Skin: Standardizing the management of psoriasis in China**

[15 min] *Hang LI, Dermatology Department, The First Affiliated Hospital of Beijing University, Beijing, China.*

- 13:25 Novel therapeutic strategy in immunotherapy of melanoma**  
 [10 min] **Hong LIU**, Dermatology Dept., Xiangya -the First Affiliated Hospital of Central South University, Changsa, China
- 13:35 Tissue Mechanics in Haired Murine Skin: Potential Implications for Skin Aging AI in Skin: Standardizing the management of psoriasis in China**  
 [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.
- 13:45 Photobiology in our eye: A prospective** [10 min]  
**Juan Su & Julia Li Zhong**, Dermatology Dept., Xiangya -the First Affiliated Hospital of Central South University, Changsa; 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.
- 13:55 Why red-haired individuals are so prone to developing melanoma** [15 min]  
**Rutao CUI**, Medical School, Zhejiang University, Hangzhou, 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; BioSenic, Louvain La Neuve, Belgium.*
- 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- 17:30 [Final Speeches](#)** (Banqueting room) [Chairs: C. Fahy and C. Pourzand]

**Final Acknowledgements/ Best Poster & Oral Presentation Prize Draw.**

**Sponsors:** Pharmaceutical companies have provided funding for this event. This event is operated independently. Funding will not be used for any social activities within the programme.



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