Bath Institute for Rheumatic Diseases
Supporting arthritis research, education and patient engagement

Royal United Hospital Bath NHS
NHS Trust

University of Bath

Skin@Bath 2026

Skin@Bath
SKIN & SYNOVIUM NETWORK SYMPOSIUM

Skin & Synovium Network Symposium

From Exposome to Precision Medicine: Connecting Skin Biology, Engineering, Photonics and Therapeutic Innovation

10–11 December 2026, Guildhall, Bath, United Kingdom

LabSkin
SKIN SCIENCE

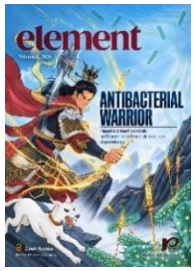
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SCIENTIFIC THEMES
Inflammation; Skin Ecosystem Dynamics; Microbiome; Photonics; Drug Delivery; Microneedles; Precision Dermatology; Regenerative Medicine

Scientific Programme

Skin@Bath
SKIN & SYNOVIUM
NETWORK SYMPOSIUM

Venue: Guildhall (High Street, Bath BA1 5AW)

Thursday 10 December 2026 (DAY 1)

Registration Desk ⏱ Open from 7:45 AM-6:00 PM @ Aix-en-Provence Room
Conference Venue ⏱ Open from 8:00 AM -7:00 PM @ Banqueting Room
Keynote Talks ⏱ 23 min (20 min talk + 3 min Q&A-Discussion)
Invited Talks ⏱ 15 min (13 min talk + 2 min Q&A-Discussion)
Short Oral Presentations ⏱ (8 min + 2 min Q&A-Discussion)
Industrial Podium Presentations ⏱ (12 min + 3 min Q&A-Discussion)

08:00–08:30 Welcome & Opening

08:00-08:10 -Charareh Pourzand, William Tillett, Tian Cui, and Charlotte Gollins, Skin@Bath Organisers

08:10-08:20 - Amanda Mackenzie, Head of Life Sciences Department, University of Bath

08:20-08:30 - Celia Mead, Director of Bath Institute for Rheumatic Diseases

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DAY 1 Theme – Inflammation, the Exposome and Skin Ecosystem Dynamics

Session 1a. Innovations in Skin Health: From Biological Mechanisms to Therapeutic Strategies
Integrating microbiome science, redox biology, environmental stressors and advanced therapeutic approaches

Chairs: Dr Faiza BENAOUDA & Dr Charlotte GOLLINS

08:30–08:53 — Keynote Speaker 1 **Toby JENKINS**
A PROBIOTIC BASED SKIN CREAM DESIGNED TO INHIBIT UREASE AND PROTECT SKIN FROM AMMONIA SECRETING BACTERIA
Department of Chemistry, University of Bath, Bath, UK.

08:53–09:16 — Keynote Speaker 2 **Christopher E.M. GRIFFITHS**
CAN WE CURE PSORIASIS?
Centre for Dermatology Research, University of Manchester, Manchester, UK; Department of Dermatology, King's College Hospital, King's College London, London, UK.

09:16–09:31 — Invited Speaker 1 **Helen ALEXANDER**
TARGETING THE SKIN MICROBIOME: NEW THERAPEUTIC FRONTIERS IN ATOPIC DERMATITIS.
Unit for Paediatric and Population-Based Dermatology Research, St John's Institute of Dermatology, King's College London and Guy's and St Thomas' Hospitals, London, UK.

09:31–09:46 — Invited Speaker 2 **Faiza BENAOUDA**
NON-INVASIVE SKIN DRUG DELIVERY: ENABLING ADVANCED THERAPEUTICS AND MICROBIOME-BASED INTERVENTIONS

Centre for Pharmaceutical Medicine Research, Institute of Pharmaceutical Science, Franklin-Wilkins Building. King's College London, Faculty of Life Sciences & Medicine, London, UK.

09:46–10:01 — Invited Speaker 3 **Paul WINYARD**
REDOX SIGNALLING AND INFLAMMATION IN SKIN PATHOLOGY: FROM MECHANISM TO THERAPEUTIC TARGETING.
Inflammation Research Group, University of Exeter Medical School, UK; Watercress Research Limited, Exeter, UK.

10:01–10:20 — Tea/Coffee Break & Poster Session

Session 1b. Environmental Stressors, Skin Ageing and Therapeutic Strategies

Chairs: Prof Tian CUI & Dr Caoimhe FAHY

10:20–10:43 — Keynote Speaker 3 **Giuseppe VALACCHI**
THE EXPOSOME AND SKIN HEALTH: ENVIRONMENTAL STRESSORS AND INFLAMMAGING.
NC State University, Plants for Human Health Institute, Animal Science Dept. Kannapolis, NC 28081, Department of Environmental and Prevention Sciences University of Ferrara, Ferrara, Italy, Department of Food and Nutrition Kyung Hee University, Seoul - South Korea

10:43–10:58 — Invited Speaker 4 **Premrutai THITILERTDECHA**
FROM ENERGY TO EFFICACY: HARNESSING FRACTIONAL Er:YAG LASER AND RF MICRONEEDLING FOR DRUG DELIVERY
Siriraj Research Group in Immunobiology and Therapeutic Sciences, Research Department, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand.

10:58–11:13 — Invited Speaker 5 **Leah VARDY**
TARGETING POLYAMINES FOR THE TREATMENT OF HYPERPIGMENTATION.
*A*STAR Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Singapore, Singapore; Skin Research Institute of Singapore (SRIS), Immunos, Singapore.*

11:13–11:28 — Invited Speaker 6 **Alexander NYSTRÖM**
***EPIDERMOLYSIS BULLOSA* AS A PARADIGM OF EXTRACELLULAR MATRIX DYSFUNCTION IN SKIN DISEASE: MECHANISMS AND THERAPEUTIC OPPORTUNITIES.**
Department of Dermatology, Medical Faculty, Medical Center - University of Freiburg, Freiburg, Germany.

Selected Short Oral Presentations (SOPs)

Chairs: Prof Nikoletta FOTAKI & Dr Sara ANJOMANI-VIRMOUNI

11:32–11:42 — SOP 1 **Mark CRONSHAW**
CUTANEOUS PHOTOBIOMODULATION IN THERMAL INJURIES: TRANSDUCTION PATHWAYS AND A DOSIMETRIC AUDIT OF THE BURNS LITERATURE.
Leicester School of Pharmacy, De Montfort University, UK.

11:42–11:52 — SOP 2 **Swarna BALLIMOGARU SURESH**

HARNESSING PYOCYANIN FOR HYPERPIGMENTATION: DEVELOPMENT OF A NANOEMULGEL TARGETING MELANOGENESIS.
Department of Public Health Genomics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India ; Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India; Department of Biotechnology, Manipal Institute of Technology, Manipal

Academy of Higher Education, Manipal, Karnataka, India; Department of Dermatology, Venereology and Leprosy, Kasturba Medical College, Manipal Academy of Higher Education, Manipal, Karnataka, India.

11:52–12:02 — SOP 3 **Roshan KESHARI**

ANTI-INFLAMMATORY AND ANTI-PROLIFERATIVE ROLE OF BIOMATERIALS DERIVED PHYTOCHEMICAL DRUG ATTENUATED LIPID NANOPARTICLES TO AMELIORATE IMIQUIMOD INDUCED PSORIASIS-LIKE SKIN INFLAMMATION IN MICE MODEL.

Department of Biosciences and Bioengineering; Indian Institute of Technology Bombay, Mumbai, 400076, Maharashtra, India.

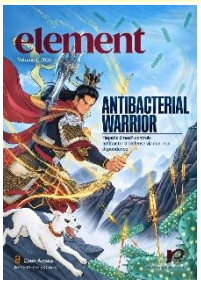
12:02–12:12 — SOP 4 **Jing Yi LEE**

ENHANCING DERMAL DELIVERY OF TOCOTRIENOL VIA NANOEMULSION AND MICRONEEDLES: IS TWO BETTER THAN ONE?

Discipline of Pharmaceutical Technology, School of Pharmaceutical Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia; School of Pharmacy, Faculty of Medical Sciences, Newcastle University, Newcastle upon Tyne, NE1 7RU, United Kingdom; Department of Life Sciences, University of Bath, Bath, BA2 7AY, United Kingdom; Product Development and Advisory Department, Malaysian Palm Oil Board, 6 Persiaran Institusi, Bandar Baru Bangi, 43000 Kajang, Selangor, Malaysia.

12:50–13:40 — Lunch & Poster Session

For delegates attending the Satellite Session, lunch will be available throughout the session.



12:50–13:30 — Satellite Lunch Meeting 1 **Element**

The Future of Skin Therapeutics: Ferro-Aging, Light-Induced Responses and Precision Skin Medicine

Chairs: Prof Rex Tyrrell & Prof Julia Li Zhong

12:50–13:00 — Element Selected presentation 1 **Batool ALBADAINEH**

WHEN SKIN RUSTS: COMPARING THE FERRO-AGING POTENTIAL OF UVA AND NIR.

Department of Life Sciences, University of Bath, Bath, UK.

13:00–13:10 — Element Selected presentation 2 **Maiza VON DENTZ**

OPN3 MEDIATES RETINAL-DEPENDENT LIPOFUSCIN ACCUMULATION AND BLUE-LIGHT INDUCED PROTEOMIC REMODELING IN HUMAN KERATINOCYTES.

Department of Biochemistry, Institute of Chemistry, University of São Paulo, São Paulo, Brazil; Department of Chemistry and Molecular Biology, University of Gothenburg, Gothenburg, Sweden; Proteomics Core Facility (PCF) and BioMS, Sahlgrenska Academy, University of Gothenburg, Sweden; Glycoproteomics and MS Proteomics, Science for Life Laboratory (SciLifeLab), University of Gothenburg, Sweden; Laboratory of Comparative Physiology of Pigmentation, Department of Physiology, Institute of Biosciences, University of São Paulo, São Paulo, Brazil; Wallenberg Centre for Molecular and Translational Medicine, University of Gothenburg, Gothenburg, Sweden; Institute of Neurobiology, Center of Brain Behavior & Metabolism, University of Lübeck, Germany; University Hospital Schleswig-Holstein, Campus Lübeck, Lübeck, Germany.

13:10–13:20 — Element Selected presentation 3 **David GUREVICH**

NEXT-GENERATION MITOCHONDRIAL PROBE FOR NON-INVASIVE, DYNAMIC IN VIVO MEASUREMENT OF LABILE IRON.

The Quzhou Affiliated Hospital of Wenzhou Medical University, Quzhou People's Hospital, Quzhou, Zhejiang, China; Department of Life Sciences, University of Bath, Bath, UK; Centre for Bioengineering and Biomedical Technologies, University of Bath, Bath, UK; Department of Chemistry, University of Bath, Bath, UK; Institute of Pharmaceutical Science, King's College London, London, UK; Institute of Advanced Studies, School of Pharmaceutical and Chemical Engineering, Taizhou University, Taizhou, China.

13:20–13:30 — Element Selected presentation 4 **Pooyan MAKVANDI**

TOPICAL NANO-ZNO/VITAMIN THERAPY FOR WOUND HEALING: HISTOLOGICAL, MOLECULAR, AND ANALGESIC EVIDENCE.
The Quzhou Affiliated Hospital of Wenzhou Medical University, Quzhou People's Hospital, Quzhou, Zhejiang, China.

Session 1c. Precision Medicine in Dermatology

Optimising biologic therapies through therapeutic drug monitoring and personalised treatment strategies
Chair: Dr Charlotte GOLLINS

13:40–13:55 — Invited Speaker 7 **Hannah E WAINMAN**
PRECISION BIOLOGICS IN HIDRADENITIS SUPPURATIVA: THE ROLE OF DOSE ESCALATION AND DRUG MONITORING.
Centre for Applied Excellence in Skin and Allergy Research, University of Bristol, Bristol, UK; Bristol Dermatology Centre, Bristol Royal Infirmary, University Hospitals Bristol and Weston NHS Foundation Trust, Bristol, UK.

Session 2. Photonics and Light-Based Technologies for Skin Health and Precision Medicine

From pathogen detection to antimicrobial and precision light-based interventions
Chairs: Prof Ian White & Prof Tian CUI

13:58–14:18— Keynote Speaker 4 **Ian WHITE**
PHOTONICS FOR HEALTH: ENABLING AIRBORNE PATHOGEN DETECTION AND LIGHT-ACTIVATED THERAPEUTICS.
University of Bath, Claverton Down, Bath, UK.

14:18–14:41 — Keynote Speaker 5 **Tian CUI**
WEARABLE VIRUS SENSING AND PHOTONIC TECHNOLOGIES FOR REAL-TIME DETECTION AND INACTIVATION.
University of Minnesota, Minneapolis, USA; University of Bath, Bath, UK.

14:41–14:56 — Invited Speaker 8 **Michelle MACLEAN**
ANTIMICROBIAL PHOTONICS FOR PATHOGEN CONTROL.
The Robertson Trust Laboratory for Electronic Sterilization Technologies, Department of Electronic and Electrical Engineering, University of Strathclyde, Glasgow, UK; Department of Biomedical Engineering, University of Strathclyde, Glasgow, UK.

14:56–15:11 — Invited Speaker 9 **Ewan EADIE**
GERMICIDAL ULTRAVIOLET WAVELENGTHS AND THE SKIN.
NHS Tayside, Photobiology Unit, Ninewells Hospital and Medical School, Dundee, UK.

Selected Short Oral Presentations (SOPs)

Chair: Prof Nikoletta FOTAKI

15:15–15:25 — SOP 5 **Karl P. LAWRENCE**
NON-INVASIVE EXTRACTION OF DERMAL INTERSTITIAL FLUID ENABLES MOLECULAR PROFILING OF RESPONSE TO UV-INDUCED SKIN DAMAGE.
Institute of Pharmaceutical Sciences, School of Cancer and Pharmaceutical Sciences, King's College London, London, UK; St John's Institute of Dermatology, School of Basic & Medical Biosciences, King's College London, London, UK; School of Chemistry & Chemical Engineering, University of Surrey, Guildford, UK; School of Sustainability, Civil and Environmental Engineering, University of Surrey, Guildford, UK.

15:25–15:35 — SOP 6 **Simon BOOTH**
DEVELOPMENT OF A NON-MAMMALIAN, *IN-VIVO* WOUND MODEL USING THE *GALLERIA MELLONELLA* LARVAE.
Department of Chemistry, University of Bath, Bath, UK.

15:35–15:55 — Tea/Coffee Break & Poster Session

Industry & Innovation Showcase: Translating Skin Science into Impact

Chair: Prof Tian CUI

15:55–16:10 — Industry talk 1 **Nicola KINGSWELL**
Labskin-S: ONE MODEL, MULTIPLE APPLICATIONS.
Director, Labskin Ltd, Wetherby, UK.

16:10–16:25 — Industry talk 2 **Michael CONNEELY**
SKIN UNDER TENSION: EXPLORING HUMAN SKIN PHYSIOLOGY AND FUNCTION EX VIVO
COO, TenBio Ltd, Dundee, UK.

16:25–16:40 — Industry talk 3 **Joe RASTRICK**
Talk Title to Be Confirmed
Head of Resolution of Inflammation, UCB Pharma.

Session 3. Light, Redox and Mitochondrial Pathways in Skin Ageing and Disease

From environmental stressors to therapeutic targeting in inflammaging and skin pathology
Chairs: Prof Rex Tyrrell & Dr Sara Anjomani-Virmouni

16:44–17:07 — Keynote Speaker 6 **Maurício BAPTISTA**
MITOCHONDRIAL PATHWAYS AS KEY MEDIATORS OF VISIBLE-LIGHT EFFECTS IN EXPOSED SKIN.
Institute of Chemistry, University of São Paulo, São Paulo, Brazil

17:08–17:31 — Keynote Speaker 7 **Antony YOUNG**
SUNLIGHT DAMAGE AND PHOTOPROTECTION – REVISITING THE MISCONCEPTIONS.
St. John's Institute of Dermatology, King's College London, London, UK.

17:31–17:46 — Invited Speaker 10 **Daniela R. TRUZZI**
PHOTOLABILE NITRIC OXIDE RESERVOIRS IN KERATINOCYTES: THE POTENTIAL ROLE OF DINITROSYL IRON COMPLEXES.
Departamento de Bioquímica, Instituto de Química - Universidade de São Paulo, São Paulo, Brazil.

17:46–18:01 — Invited Speaker 11 **Bey Hing GOH**
REVOLUTIONISING COSMECEUTICALS THROUGH SINGLE-CELL TECHNOLOGY: FROM CELLULAR RESOLUTION TO PRECISION SKINCARE.
Sunway Biofunctional Molecules Discovery Centre, Faculty of Medical and Life Sciences, Sunway University, Sunway City, Malaysia; Faculty of Health, Australian Research Centre in Complementary and Integrative Medicine, University of Technology Sydney, Ultimo, NSW, Australia; Graduate Institute of Cancer Biology and Drug Discovery, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan.

18:01–18:24 — Element Distinguished Lecture **Fudi WANG**
IRON DYSREGULATION AND FERROPTOSIS IN DISORDERS OF AGED ORGANS.

Zhejiang University School of Medicine, Hangzhou, China; Global Innovation Institute of Element Science (GIIES-JLU), The First Hospital of Jilin University, Changchun, China.

18:25–18:45 —Pro Vice-Chancellor & Provost Welcome Prof Marcus Munafo

Pro-Vice-Chancellor (Research) Welcome - Prof Jianzhong Wu

Chair: Charareh POURZAND

18:45–19:00 — Walk to Apex Hotel for combined Drinks/Dinner Reception

19:00–22:30 — Drinks Reception & Banquet Dinner (Ticket Holders Only)

The combined drink reception (19:00-19:30) and Banquet dinner (19:30-22:30) tickets must be purchased via the Registration link. Please bring your banquet dinner ticket to the venue.

Venue: Apex City of Bath Hotel, James Street West, Bath BA1 2DA

END of Day 1

Friday 11 December 2026 (DAY 2)

Registration Desk ⏱ Open from 8:00 AM-5:00 PM @ Aix-en-Provence Room
Conference Venue ⏱ Open from 8:00 AM -6:00 PM @ Banqueting Room
Keynote Talks ⏱ 23 min (20 min talk + 3 min Q&A-Discussion)
Invited Talks ⏱ 15 min (13 min talk + 2 min Q&A-Discussion)
Short Oral Presentations ⏱ (8 min + 2 min Q&A-Discussion)

DAY 2 Theme – Engineering Skin Health and Precision Dermatology

Session 4. Advanced Drug Delivery and Skin Interface Technologies

From nanofabrication and microneedles to targeted transdermal and subcutaneous therapies

Session 4a. Advanced Drug Delivery, Nanofabrication and Microneedle Technologies for Tissue Regeneration and Dermatology

Chairs: Dr Choon Fu GOH & Prof Stuart JONES

08:00–08:23 — Keynote Speaker 8 **Ryan DONNELLY**
HYDROGEL-FORMING MICRONEEDLE ARRAYS FOR TRANSDERMAL DELIVERY.
School of Pharmacy, Queen's University Belfast, Belfast, UK

08:23–08:38 — Invited Speaker 12 **Keng Wooi NG**
DUAL-DOMAIN, SEMI-DISSOLVING AND HYDROGEL-FORMING MICRONEEDLES FOR SUSTAINED DRUG RELEASE.
School of Pharmacy, Newcastle University, King George VI Building, Queen Victoria Road Newcastle Upon Tyne, UK

08:38–08:53 — Invited Speaker 13 **Choon Fu GOH**
ENHANCING SKIN PENETRATION FOR THERAPEUTIC EFFICACY.
Discipline of Pharmaceutical Technology, School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, Malaysia.

08:53–09:16 — Keynote Speaker 9 **Duncan CRAIG**
NANOFABRICATION TECHNOLOGIES TO OPTIMISE DRUG DELIVERY AND POLYMER-TISSUE INTERACTIONS.
Faculty of Sciences, University of Bath, Bath, UK

09:16–09:31 — Invited Speaker 14 **Panagiota ZARMPI**
EXPANDING THE CAPABILITIES OF RAMAN-BASED DERMATOPHARMACOKINETICS.
University of Bath, Department of Life Sciences, Bath, UK; University of Surrey, School of Chemistry & Chemical Engineering, Guildford, UK.

09:31–09:46 — Invited Speaker 15 **Haifeng YE**

THE NEGLECTED SUBCUTANEOUS TISSUE – FASCIA LAYER: A NEW TARGET FOR TISSUE REPAIR AND REGENERATION.

School of Basic Medical Sciences; Institute of Biomedical Innovation; Medical Center of Burn Plastic and Wound Repair, The First Affiliated Hospital, Jiangxi Medical College, Nanchang University, Nanchang, Jiangxi 330031, China

09:46–10:10 — Tea/Coffee & Poster Session

Session 4b. Translational Drug Delivery
Chair: Dr Choon Fu GOH

10:10–10:33 — Keynote Speaker 10 **Stuart JONES**
PREVENTING ALLERGEN DELIVERY INTO THE SKIN: DEVELOPMENT OF A NEW BARRIER CREAM TO PREVENT MASSAGE-FACILITATED CUTANEOUS SENSITISATION.
Centre for Pharmaceutical Medicine Research, Institute of Pharmaceutical Science, Franklin-Wilkins Building. King's College London, Faculty of Life Sciences & Medicine, London, UK

Selected Short Oral Presentation (SOP)

Chair: Dr Choon Fu GOH

10:36–10:46 — SOP 7 **Naing Tun THET**
COLD ATMOSPHERIC PLASMA-ACTIVATED COMPOSITE HYDROGEL FOR SKIN INFECTION CARE AND TRANSDERMAL DRUG DELIVERY FOR MANAGING EARLY-STAGE SKIN CANCERS.
Department of Chemistry, University of Bath, BA2 7AY, Bath, UK

10:46–10:56 — SOP 8 **Chunhui YAO**
ON-CHIP SPECTROSCOPY FOR NON-INVASIVE BIOMEDICAL SENSING AND SKIN CHARACTERISATION.
Centre for Photonic Systems, University of Cambridge, Cambridge, UK.

China-UK Skin Consortium: Building Strategic Partnerships for Global Impact

Chairs: Dr Choon Fu GOH and Prof Tian CUI

11:00–11:15 — Invited Speaker 16 **Jun YANG**
MACROPHAGE FERROPTOSIS POTENTIATES GCN2 DEFICIENCY INDUCED VENOUS ARTERIALIZATION.
Department of Physiology, and Department of Cardiology of the Second Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China.

11:15–11:30 — Invited Speaker 17 **Wuquan DENG**
CROSS-ORGAN REGULATION AND UNDERLYING MECHANISMS IN DIABETIC FOOT ULCERS.
Chongqing University Central Hospital, Yuzhong District, Chongqing, China

11:30–11:45 — Invited Speaker 18 **Julia Li ZHONG**
THE CHINESE BODY SURFACE SOCIETY: BUILDING INTERNATIONAL COLLABORATION IN SKIN RESEARCH.
National Innovation and Attracting Talents "111" base, Key Laboratory of Biorheological Science and Technology of Ministry of Education, Bioengineering College, Chongqing University, Chongqing, China.

Session 5. Precision and Regenerative Skin Biology
Integrating genomics, redox sensing, tissue remodelling and advanced therapeutics for next-generation dermatology
Session 5a. Precision Skin Biology: From Redox Signalling and Genomics to Targeted Therapies

Chairs: Prof Sofia PASCU & Prof Nikoletta FOTAKI

11:48-12:11 — Keynote Speaker 11 **Tony JAMES**
SENSING DISEASE: ILLUMINATING REDOX BIOLOGY THROUGH MOLECULAR DESIGN IN COMPLEX TISSUES.
Department of Chemistry, University of Bath, Bath, UK

12:11-12:34 — Keynote Speaker 12 **Edel O'TOOLE**
GENOMICS TO THERAPEUTICS: TRANSLATING SKIN BIOLOGY INTO PRECISION DERMATOLOGY.
Centre for Cell Biology and Cutaneous Research, Blizard Institute, Queen Mary University of London, London, UK

12:35–13:55 — Lunch & Poster Session
For delegates attending the Satellite Session, lunch will be available throughout the session.

13:00–13:50 — **Satellite Lunch Meeting 2 –**
Clinical Dermatology and Rheumatology Research in the UK
Chairs: Dr Charlotte GOLLINS and Dr Caoimhe FAHY

13:00–13:15 — Satellite Lunch Meeting 2 - Speaker 1 **Ellie DODSON**
USING FLASHCARDS TO REDUCE DERMATOLOGICAL DIAGNOSTIC INEQUALITY IN DARKER SKIN TYPES.
Royal Berkshire NHS Foundation Trust, Reading, UK

13:15–13:30 — Satellite Lunch Meeting 2 - Speaker 2 **Sweta RAI**
SCAR OPTIMISATION IN DERMATOLOGIC SURGERY.
Dermatology Department, Kings College Hospital NHS Foundation Trust, London, UK.

13:30–13:40 — Satellite Lunch Meeting 2 – *Short Oral Presentation 1* **Ifunanya AGU-JEFFERSON**
DIAGNOSTIC DISCORDANCE IN CUTANEOUS LEISHMANIASIS: PCR CONFIRMED LEISHMANIA MAJOR DESPITE NEGATIVE HISTOLOGY IN A UK PATIENT.
North Cumbria Integrated Care NHS Trust Foundation, UK

13:40–13:50 — Satellite Lunch Meeting 2 - *Short Oral Presentation 2* **James KIMPTON**
USING SOCIAL MEDIA TO UNDERSTAND THE LIVED EXPERIENCE OF PEOPLE WITH PSORIATIC ARTHRITIS RECEIVING BIOLOGIC THERAPIES AND WEIGHT MANAGEMENT INTERVENTIONS.
University of Bath; Royal National Hospital for Rheumatic Diseases, Bath; White Swan Charity; Bath Institute for Rheumatic Diseases (BIRD); University of the West of England; Luton and Dunstable Hospital; Queen's University Belfast; University of Manchester; Manchester University NHS Foundation Trust; East Suffolk North Essex NHS Foundation Trust; University of Essex; Midlands Partnership University NHS Foundation Trust; University Hospitals Dorset NHS Foundation Trust; The Royal Wolverhampton NHS Foundation Trust; Patient Partner (BritPACT, EULAR) & Physiotherapist, Cardiff Metropolitan University; Leeds Teaching Hospitals NHS Trust; University Hospitals Coventry & Warwickshire; University of Oxford.

Session 5b. Skin Repair and Regenerative Innovation: From Matrix Biology to Predictive and Cell-Based Therapies
Chairs: Prof Sofia PASCU & Prof Nikoletta FOTAKI

13:55–14:18 — Keynote Speaker 13 **Rachel WATSON**
ASIAN SKIN AGEING: THE SINGAPORE EXPERIENCE.
*A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), National Skin Centre & Skin Research Institute of Singapore (SRIS), Singapore, Republic of Singapore.*

14:18–14:41 — Keynote Speaker 14 **Keshav SINGH**
MITOCHONDRIA: THE REVERSIBLE REGULATORS OF AGING IN SKIN
Department of Genetics, Heersink School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, USA.

14:41–14:56 — Invited Speaker 19 **Mark OSBORN**
ENGINEERING THE FUTURE OF SKIN THERAPY: GENE EDITING, CELL THERAPY, AND REGENERATION.
Division of Blood and Marrow Transplant and Cellular and Gene Therapy, University of Minnesota, Minneapolis, MN 55455, USA.

Session 6. Advancing Precision Dermatology in Psoriatic Disease

Optimising biologics, integrating clinical insights, and translating innovation into improved patient outcomes

Chairs: Dr William TILLETT & Dr Caoimhe FAHY

15:00–15:23 — Keynote Speaker 15 **Philip S. HELLIWELL**
PSORIATIC ARTHRITIS AND THE THERAPEUTIC OPPORTUNITY OF OBESITY INTERVENTION.
NIHR Leeds Biomedical Research Centre, Leeds Teaching Hospitals NHS Trust, Leeds, UK; Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds, UK.

15:23–15:38 — Invited Speaker 20 **William TILLETT**
DIFFICULT-TO-TREAT PSORIATIC ARTHRITIS: WHY THERAPIES FAIL AND WHAT WE CAN DO ABOUT IT.
Royal National Hospital of Rheumatic Diseases, Bath, UK; Department of Life Sciences, University of Bath, Bath, UK.

15:38–15:53 — Invited Speaker 21 **Laura SAVAGE**
ADVANCES IN PSORIASIS THERAPEUTICS.
Department of Dermatology, Leeds Teaching Hospitals NHS Trust and University of Leeds, Leeds, UK.

15:53 –16:15 — Tea/Coffee Break & Poster Session

16:15–16:30 — Invited Speaker 22 **Marijn Vis**
ADVANCES IN PSORIATIC ARTHRITIS TREATMENT STRATEGY.
Department of Rheumatology, Erasmus MC, Rotterdam, Netherlands.

16:30–16:45 — Invited Speaker 23 **Charlotte GOLLINS**
SEQUENTIAL BIOLOGIC TREATMENTS IN PSORIATIC DISEASE.
Department of Life Sciences, Centre for Therapeutic Innovation, University of Bath, Bath, UK; Royal National Hospital for Rheumatic Diseases, Royal United Hospitals Bath NHS Foundation Trust, Bath, UK.

Session 7. Global Perspectives and Future Directions in Dermatology

Integrating advanced therapeutics, device-enabled delivery and biologically inspired interventions

Chair: Dr Martin JOHN & Prof Julia Li ZHONG

16:48–17:03 — Invited Speaker 24 **David R PEARSON**
CAR-T AND OTHER CELLULAR THERAPIES IN AUTOIMMUNE DERMATOLOGY
Department of Dermatology, University of Minnesota, Minneapolis, Minnesota, US

17:03–17:18 — Invited Speaker 25 **Duarte BARRAL**
TARGETING LYSOSOME EXOCYTOSIS TO IMPAIR CUTANEOUS MELANOMA PROGRESSION.

iNOVA4Health, NOVA Medical School, Faculdade de Ciências Médicas, NMS, FCM, Universidade NOVA de Lisboa, Lisboa, Portugal

17:18–17:33 — Invited Speaker 26 **Somdet SRICHAIRATANAKOOL**
THAI PLANT EXTRACT EFFECTS ON HUMAN OXIDATIVE STRESS.
Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand.

17:33–17:48 — Invited Speaker 27 **Muhammad Farrukh NISAR**
NUMTOGENESIS IN SKIN PHOTOAGING: AN EMERGING GENOMIC PARADIGM FOR NATURAL DRUGS INTERVENTION.
Chongqing Technical Innovation Center for Quality Evaluation and Identification of Authentic Medicinal Herbs, Clinical Research Center, Medical Pathology Center, Cancer Early Detection and Treatment Center and Translational Medicine Research Center, Chongqing University Three Gorges Hospital, Chongqing University, Wanzhou District, Chongqing 404100, China; Chongqing University Three Gorges Hospital & Academy for Advanced interdisciplinary Technology, CQU-Ferenc Krausz Nobel Laureate Scientific Workstation.

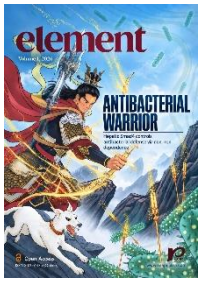
17:48–17:58 — Invited Speaker 28 **Yong LIU**
LESSONS TO LEARN FROM TRADITIONAL CHINESE MEDICINE.
Chongqing Jiangjin District, First People's Hospital, Dermatology Department, Chongqing Jiangjin District First People's Hospital (Chongqing Shuang Fu)

Closing Ceremony

18:00–18:15 — Award Presentation [Best Oral and Poster Presentations]
Chairs: Prof Ian WHITE & Prof Tian CUI

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18:15–18:20 — Award Presentation [Best Element Presentations]
Chairs: Prof Fudi WANG & Prof Charareh POURZAND



18:20–18:30 — Closing Panel & Final Remarks

END of Day 2

List of Poster Presentations

Skin@Bath
SKIN & SYNOVIUM
NETWORK SYMPOSIUM

POSTER 1

LABSKIN[MAC]: DEVELOPMENT OF AN IMMUNE-COMPETENT 3D HUMAN SKIN MODEL.

Simms Adu[1,2], Vinay Thoree[1], Raphael Slip[1], Nicola Kingswell[1], Ivana Milic[2], Andrew Devit[2].
[1]Labskin UK Ltd, Unit 20 Ash Way, Avenue C West, Thorp Arch Estate, Wetherby, LS23 7FA
[2]Aston University, The Aston Triangle, Birmingham, UK

POSTER 2

MICRONEEDLING VS CHEMICAL PEELS FOR ATROPHIC ACNE SCARS: A SYSTEMATIC REVIEW AND META-ANALYSIS.

Ifunanya Agu-Jefferson, Tsedena T. Gebregiorgris, Lilian Ozumba, Osagioduwa Mike Atoe-Imagbe, Omotoyosi N. Ilesanmi
North Cumbria Integrated Care NHS Trust Foundation, Pillars Building, Cumberland Infirmary, Infirmary Street, Carlisle, Cumbria, CA2 7HY, UK.

POSTER 3

FORMULATION AND EVALUATION OF RESVERATROL-LOADED SOLID LIPID NANOPARTICLES WITH COBNUT OIL IN A TOPICAL CREAM: ENHANCED SKIN DELIVERY FOR ANTIOXIDANT AND ANTICANCER APPLICATIONS.

Amniyah Al-Imam, Bruce Alexander
University of Greenwich, Old Royal Naval College, London, UK.

POSTER 4

NEEDLE-FREE DERMAL INTERSTITIAL FLUID SAMPLING FOR AGE-ASSOCIATED ZINC CHANGES AND UV-INDUCED DNA DAMAGE PROFILING IN HUMAN SKIN.

Rawan Alosaimi[1], Karl Lawrence[1], Stuart A. Jones[1], Faiza Benaouda[1]
[1]Institute of Pharmaceutical Sciences, Faculty of Life Sciences & Medicine, King's College London, London, UK.

POSTER 5

A NOVEL HYDROGEN SULPHIDE-RELEASING APPROACH FOR TARGETED TREATMENT OF ONYCHOMYCOSIS.

Alyaa Al-Tabatabai[1], Osamah Malallah[1], Mazen Aly[1], Sara Nasereddin[1], Mohamad Alhnan[1], Albert Bolhuis[2], Stuart A. Jones[1]
[1]Institute of Pharmaceutical Sciences, Faculty of Life Sciences & Medicine, King's College London, London, UK;
[2]Department of Life Sciences and the Centre for Therapeutic Innovation, University of Bath, Bath BA2 7AY, UK.

POSTER 6

EXPLORING GENOTYPE-PHENOTYPE CORRELATIONS IN ZEBRAFISH SOX10 MUTATIONS.

Jennika Bates[1], Rebecca Richardson[2], Keith Vance[1] and Robert N. Kelsh[1]
[1]Department of Life Sciences, University of Bath, Claverton Down, Bath, UK; [2]School of Physiology, Pharmacology and Neuroscience, University of Bristol, Biomedical Sciences Building, University Walk, Bristol, UK.

POSTER 7

FROM CALCINOSIS TO HEALING: MULTIDISCIPLINARY MANAGEMENT OF SEVERE CALCINOSIS CUTIS AND WOUNDS IN ANTI-NXP2 DERMATOMYOSITIS.

William Boyd-Carson
Specialty Doctor, Dermatology, Royal United Hospitals Bath NHS Foundation Trust, Bath, UK; Research Lead, BSW; GPwER, Cotswold Surgical Partnership, UK.

POSTER 8

CURCUMIN–SILVER NANOPARTICLE (CUR-AGNP) TOPICAL SPRAY: SYNERGISTIC ANTIMICROBIAL-ANTIBIOFILM ACTIVITY, PHYSICOCHEMICAL STABILITY, PRESERVATIVE EFFICACY, AND POLYMERIC SUSPENSION OPTIMIZATION FOR VETERINARY WOUND CARE.

Ria Deshpande[2], Siddhi Chande[1], Gaythri Muddala[1], Roshan Keshari[1], Rohit Srivastava[1]
[1]Indian Institute of Technology, Bombay, Powai, 400076, Mumbai, Maharashtra; [2]Seven Isles International School, Mulund, 400081, Mumbai, Maharashtra.

POSTER 9

CELL-FREE SUPERNATANT FROM *STAPHYLOCOCCUS EPIDERMIDIS* LOWERS UVB-INDUCED γH2AX SIGNAL IN HaCaT KERATINOCYTES WHEN APPLIED AFTER IRRADIATION.

Seyedeh Bahareh Fatemi, John Murphy, Godfrey Kyazze, Tajalli Keshavarz
School of Life Sciences, University of Westminster, London, UK

POSTER 10

POLYAPHRON DISPERSION FORMULATIONS ENHANCE THE DELIVERY OF LIPOPHILIC MATERIALS INTO THE SKIN.

Christopher Harrison[1], Alan Brooks[1] and Lars Iversen[2]
[1] MC2 Therapeutics Ltd, United Kingdom; [2] MC2 Therapeutics A/S, Copenhagen, Denmark

POSTER 11

DIAGNOSTIC YIELD OF CUTANEOUS DIRECT IMMUNOFLUORESCENCE VARIES MARKEDLY BY SUSPECTED DISEASE.

Joe Hartnett[1,2], Richard I. Crawford[2,3]
[1]School of Medicine, University College Cork, Ireland; [2]Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, Canada; [3]Department of Dermatology and Skin Science, University of British Columbia, Vancouver, Canada

POSTER 12

DIFFERENCES IN CLINICAL RESPONSE SWITCHING WITHIN AND BETWEEN B/TSDMARD CLASS IN PSA: POST-HOC ANALYSIS.

Rosa Hellin[1], Charlotte Gollins[2], Andrew Challenger[1], James Kimpton[2], Annie Russel[1], Theresa Smith[1], William Tillett[2]
[1]Department of Mathematical Sciences, University of Bath, Bath, UK; [2]Department of Life Sciences, University of Bath, Bath UK

POSTER 13

SALT FORMATION ENABLES HUMAN SKIN PERMEATION OF VITAMIN D_3 PHOSPHATE.

Mai Jaber[1], Karl Lawrence[1], Karen O'Callaghan [2], Stuart Jones[1]

[1] Institute of Pharmaceutical Sciences, School of Cancer and Pharmaceutical Sciences, King's College London, London, UK; [2] Department of Nutritional Sciences, King's College London, London, UK.

POSTER 14

CONFOCAL RAMAN MICROSCOPIC INVESTIGATION OF POST-APPLICATION METAMORPHOSIS OF TOPICAL METRONIDAZOLE GELS.

R. Jamaledin[a], A.C. Williams[b], A.L. Bunge[c], R.H. Guy[a], M. Pettarin[d], J. Spires[d], V. Lukacova[d], P. Ghosh, E. Tsakalozou[e], M.B. Delgado-Charro[a].

[a] University of Bath, UK; [b] University of Reading, UK; [c] Colorado School of Mines, USA; [d] Simulations Plus, Inc, NC, USA; [e] Office of Research and Standards, Office of Generic Drugs, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, Maryland, USA.

POSTER 15

STRETCH-FACILITATED CHECKPOINT INHIBITOR DELIVERY TARGETS AN EARLY INTERVENTION WINDOW IN MELANOMA.

YX. Li[1], M. Aly[1], B. Hamzi[2], Y. Mostafa Kamel[1], S. Lynham[1], F. Benaouda[1], and S. A. Jones[1]

[1] Institute of Pharmaceutical Sciences, School of Cancer and Pharmaceutical Sciences. King's College London, London, UK.; [2] Dept. of Computing and Mathematical Sciences, Caltech, CA, USA.

POSTER 16

INVESTIGATION INTO INFLAMMATORY ASSOCIATED PIGMENTARY CHANGES IN MULTIETHNIC SKIN *IN VITRO*.

Laura Millar[1], Victoria Maltman[1], Kirsty Goncalves[1], Jason Allen[2], Stefan Przyborski[1].

[1]Department of Biosciences, Durham University, Durham, UK; [2]Procter & Gamble, Cincinnati, Ohio, USA.

POSTER 17

WEARABLE UV SENSORS- THE FITBIT OF SKIN CANCER PREVENTION?

LK. Nolan, L. Neilan, K. Joyce

Department of Plastic and Reconstructive Surgery, Galway University Hospital

POSTER 18

LYSOSOME EXOCYTOSIS INHIBITION AS A NOVEL STRATEGY TO IMPAIR CUTANEOUS MELANOMA INVASION.

Ana R. Rodrigues, Cristina Escrevente, Mariana Feliciano, Teresa Barona, Duarte C. Barral

iNOVA4Health, NOVA Medical School, Faculdade de Ciências Médicas, NMS, FCM, Universidade NOVA de Lisboa, Lisboa, Portugal.

POSTER 19

ENDOTHELIAL GDF15 RESTORES VASCULAR REPAIR AND ACCELERATES DIABETIC WOUND HEALING THROUGH SRC-AKT SIGNALING.

Shunli Rui[1]*, Wuquan Deng[1, 2†]

[1]Department of Endocrinology and Metabolism, School of Medicine, Chongqing University Central Hospital, Chongqing Emergency Medical Centre, Chongqing Key Laboratory of Emergency Medicine, Chongqing 400014, China; [2]Department of Population Health Sciences, King's College London, London, UK.

POSTER 20

ALLERGEN IMMUNOTHERAPY IN ALLERGIC RHINITIS WITH ATOPIC DERMATITIS: A PILOT STUDY.

Hooi-Leng Ser[1], Siu Jung Au Yong[1], Salina Husain[2], Kavita Reginald[1]

[1]Department of Biomedical Sciences, Jeffrey Cheah Sunway Medical School, Faculty of Medical and Life Sciences, Sunway University, Bandar Sunway 47500, Selangor, Malaysia [2]Department of Otorhinolaryngology-Head and Neck Surgery, Faculty of Medicine, Universiti Kebangsaan Malaysia, Cheras 56000, Kuala Lumpur, Malaysia.

POSTER 21

DIGITAL EXPOSURE AND SKIN HEALTH IN CHILDREN AND ADOLESCENTS: A STATE-OF-THE-ART REVIEW.

Collin Yee[1], Rasya Reddy[2], Razia Sultana[3], Zeliha Karabudak Ozbakir[4], Chineche R. Anigbo[5], Ainaz Kolesnikova[6], Shreeya Subba Rai[7], Sofia L. Rivera-Torres[8], Manju Rai[9]

[1] Internal Medicine, Tulane University School of Medicine, New Orleans, USA; [2] Internal Medicine, Kasturba Medical College, Manipal, Manipal, India; [3] Internal Medicine, Anwer Khan Modern Medical College, Dhaka, Bangladesh; [4] Internal Medicine, Gazi University Hospital, Ankara, Turkey; [5] Dermatology, Enugu State University Teaching Hospital, Enugu, Nigeria; [6] Internal Medicine, Kazan Federal University Institute of Fundamental Medicine and Biology, Tatarstan, Russia; [7] Internal Medicine, Central American Health Sciences University, Ladyville, Belize; [8] Internal Medicine, Universidad de Monterrey, San Pedro Garza García, Mexico; [9] Biotechnology, Shri Venkateshwara University, Gajraula, India

POSTER 22

CASE PRESENTATION: DILTIAZEM-ASSOCIATED DRUG REACTION WITH EOSINOPHILIA AND SYSTEMIC SYMPTOMS (DRESS) SYNDROME IN A 63-YEAR-OLD-WOMAN.

Molly de Paor Kavanagh

HSE, Cork University Hospital, Wilton, Cork, Ireland

POSTER 23

METAMORPHOSIS OF TOPICAL PRODUCTS: ASSESSMENT OF SOLVENT EVAPORATION TO PREDICT RESIDUAL PHASE COMPOSITION.

F.M. Mousli[a]; A.C. Williams[a]; A.L. Bunge[b]; R.H. Guy[c]; M. Pettarin[d]; J. Spires[d]; V. Lukacova[d]; P. Ghosh[e]; E. Tsakalozou[e], M.B. Delgado-Charro[c]

[a] University of Reading, UK; [b] Colorado School of Mines, USA; [c] University of Bath, UK; [d] Simulations Plus, Inc, NC, USA; [e] Office of Research and Standards, Office of Generic Drugs, Center for Drug Evaluation and Research, U.S. Food and Drug Administration, Silver Spring, Maryland, USA.

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