

Programme

MONDAY 27 November

7.00 - 9.00pm Welcome reception including poster viewing at the Hope Street Exchange

TUESDAY 28 November

8.30 – 8.45am Welcome

8.45 – 9.30am C. Roper, Charles River, UK

Introductory lecture: A history and a peer into the future of dermal metabolism

1. Risk assessment

Chairs: Simon Wilkinson & Clive Roper

9.30 – 9.45am

C. Günther, Bayer, Germany

Skin metabolism "why and how" - aspects to be considered during development of dermal and transdermal therapeutics

9.45 – 9.50am

Questions

9.50 – 10.05am

J. Pickles, Unilever, UK

Risk assessment following fate of metabolite with AOPs

10.05 – 10.10am

Questions

10.10 – 10.25am

S. Wilkinson, University of Newcastle, UK

Contribution of dermal metabolism to local toxicities

10.25 – 10.30am

Questions

10.30 – 10.45am

N. Hewitt, Cosmetics, Europe, Belgium

Xenobiotic metabolizing enzyme activities in 3D models and their importance in dermal toxicity tests

10.45 – 10.50am

Questions

10.50 – 11.10am

Coffee Break

2. Impact of skin metabolism on skin pharmacokinetics

Chairs: Joan Eilstein & Clemens Günther

11.10 – 11.25am

U. Gundert-Remy, Charité Berlin, Germany

Extrahepatic metabolism at the body's internal-external interfaces

11.25 – 11.30am

Questions

11.30 – 11.45am

R. Guy, University of Bath, UK

The pharmacokinetics (ADME) of delivering active molecules to the skin

11.45 – 11.50am

Questions

11.50 – 12.05am

A.H. Eriksson, LEO Pharma A/S, Denmark

Using skin metabolism to assess bioavailability

12.05 – 12.10am

Questions

12.10 – 12.25pm

C.E. Wilson, Nestlé Skin Health, France

Challenges and successes of predicting pharmacokinetics following topical dosing

12.25 - 12.30pm

Questions

12.30 – 2.00pm Lunch

3. Drug transporters in the skin

Chairs: Hanan Osman-Ponchet & Sylvain Ghilini

2.00 – 2.15pm H. Osman-Ponchet, Nestlé Skin Health, France
Drug transporters in the skin and their importance in dermal absorption

2.15 – 2.20pm Questions

2.20 – 2.35pm Y.H. Dancik, A*STAR, Singapore
Skin metabolism and active transport in transdermal drug delivery

2.35 – 2.40pm Questions

2.40 – 2.55pm J. Eilstein, L'Oréal, France
Transporters characterization in human skin compared with 3D models

2.55 – 3.00pm Questions

3.00 – 3.30pm Coffee Break

4. Illustration of studies in the skin metabolism field

Chairs: Kalliopi Dodou & Simon Wilkinson

3.30 – 3.45pm J. Soeur, L'Oréal, France
Harmful synergy between UV and pollutants: redox metabolism study of skin cells

3.45 – 3.50pm Questions

3.50 – 4.05pm F. Oesch, Oesch-Tox, Germany
Variation of xenobiotic metabolism in the skin and skin models of various animal species and man and consequences for genotoxicity

4.05 – 4.10pm Questions

4.10 – 4.25pm K. Dodou, University of Sunderland, UK / Kevin Carr, Analutos Ltd
Passive transdermal delivery of low-dose naltrexone; detection of naltrexone and its active metabolite, 6 β -naltrexol, using a novel LC Q-ToF MS assay

4.25 – 4.30pm Questions

4.30 – 4.45pm C. Goebel, Coty, Germany
Skin Metabolism of Aromatic Amine Hair Dyes as Xenobiotics

4.45 – 4.50pm Questions

4.50 – 5.20pm Poster blitz
Chairs: Kalliopi Dodou & Richard Guy

5.20 – 6.30pm Poster session & Cocktail

6.30pm Bus transport to the National Glass Centre

7.00pm Dinner at the National Glass Centre Brasserie

5. Which models can be used to study skin metabolism

Chairs: Carine Jacques-Jamin & Juliette Pickles

8.45 – 9.00am	L. Armstrong, Newcells Biotech Ltd., UK An iPSC generated model of skin – 5 cells are better than 2
9.00 – 9.05am	Questions
9.05 – 9.20am	Y.H. Dancik, A*STAR, Singapore New skin-on-chip platform for high-precision skin permeation testing
9.20 – 9.25am	Questions
9.25 – 9.40am	C. Jacques-Jamin, Pierre-Fabre, France Xenobiotic metabolism in human and pig skin models
9.45 – 9.45am	Questions
9.45 – 10.15am	Student presentations: M. Golam, University of Sunderland, UK: Studies on the skin metabolism of parabens E. Rashdan, Newcastle University, UK: Sunscreens and the effects of electromagnetic radiation exposure on human skin
10.15 – 10.40am	Coffee Break

6. Novel analytical techniques for imaging drugs and metabolites in the skin

Chairs: André Huss Eriksson & Kalliopi Dodou

10.40 – 10.55am	S. Gregoire, L'Oréal, France Advantages and limits of analytical methods to study skin metabolism
10.55 – 11.00am	Questions
11.00 – 11.15am	C. Janfelt, University of Copenhagen, Denmark Mass spectrometry imaging by MALDI and DESI for studies of delivery and metabolism of drugs in skin
11.15 – 11.20am	Questions
11.20 – 11.35am	S. Ghilini, Nestlé Skin Health, France Illustration of advantages of imaging approaches in studying skin metabolism compared to traditional analytical methods
11.35 – 11.40am	Questions
11.40 – 11.55am	J.-P. Lepoittevin, University of Strasbourg, France Metabolism of xenobiotics in human reconstituted epidermis: In situ investigation by HRMAS NMR
11.55-12.00	Questions
12.00 – 12.15pm	Closing session and student poster prize
12.30 – 2.00pm	Lunch and depart