



**University of  
Sunderland**

Dodou, Kalliopi (2020) PREDICTIVE MODELING OF LONG-TERM STABILITY OF DRUG-IN-ADHESIVE TRANSDERMAL DRUG DELIVERY SYSTEMS. In: 17th International Perspectives in Percutaneous Penetration Conference, 20-22nd April 2022, La Grande Motte, France.

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# PPP2022

## CONFERENCE PROGRAM



### TUESDAY 19<sup>th</sup> April

- 10.00 **PRECONFERENCE COURSE**
- 19.00 **POT DE BIENVENUE** (*Welcome Reception*)

### WEDNESDAY 20<sup>th</sup> April

- 08.45 **INTRODUCTION** *Keith Brain*

#### PLENARY SESSION

*Chair: Keith Brain*

- 09.00 **History of dermal and transdermal delivery**  
*Kenneth Miller*
- 09.30 **Dermal/transdermal delivery: the unresolved**  
*Howard Maibach*
- 10.00 coffee

#### EXTRACTION OF BIOMARKERS FROM THE SKIN

*Chair: Mike Roberts*

- 10.30 **Macromolecule extraction pathways through the skin**  
*Stuart Jones*
- 11.00 **Microarray patches for minimally-invasive Delivery and extraction of macromolecules**  
*Ryan Donnelly*
- 11.30 **Learnings from accessing the dermis in vivo: From topical bioequivalence to biomarker research**  
*Frank Sinner*
- 12.00 lunch
- 14.00 **SUBMITTED CONTRIBUTIONS** (4x 15 min)  
*Chair: Ken Feld*
- 15.00 coffee

#### ADVANCES IN COSMETIC SCIENCE

*Chair: Vania Leite-Silva and Heather Benson*

- 15.30 **What to know about the new rules governing cosmetic products**  
*Giulio Pirota*

- 16.00 **Advanced nanoformulation technologies in cosmetic science**  
*Reinhard Neubert*
- 16.30 **Natural products and stem cells and their commercial aspects in cosmetics**  
*Bo Michniak-Kohn*

#### POSTER VIEWING WITH WINE AND CHEESE

### THURSDAY 21<sup>st</sup> April

#### TRANSDERMAL PATCH TECHNOLOGY

*Chair: Adrian Williams*

- 09.00 **Transdermal adhesive selection**  
*Sandra Wiedersberg*
- 09.30 **Predictive modelling of long-term stability of drug-in-adhesive transdermal delivery systems**  
*Kalliopi Dodou*
- 10.00 **Flexible delivery patch system based on thermoresponsive hydrogels and submicronic fibre heaters**  
*Ionut Enculescu*
- 10.30 coffee
- 11.00 **SUBMITTED CONTRIBUTIONS** (4 x 15 min)  
*Chair: David Esdaile*
- 12.00 lunch

#### EXPANDING DIMENSIONS

*Chair: Joke Bouwstra*

- 14.00 **3D printing as a manufacturing technique for transdermal systems**  
*Dimitrios Lamprou*
- 14.30 **Considering third and fourth dimensional modelling for optimal skin analysis**  
*Rosalind Hannen*

- 15.00 coffee

#### TRIBUTE TO KENNETH WALTERS

*Jonathan Hadgraft*

#### CONFERENCE DINNER

### FRIDAY 22<sup>nd</sup> April

- 09.00 **SUBMITTED CONTRIBUTIONS** (4x 15 min)  
*Chair: Robert Chilcott*

- 10.00 coffee

#### RELIABILITY OF IN VITRO SKIN PERMEATION MEASUREMENT

*Chair: Gary Moss*

- 10.30 **Design of in vitro skin permeation studies according to the EMA regulatory guidelines on the quality of transdermal patches**  
*Umberto Musazzi*
- 11.00 **Sensitivity of in vitro permeation testing to chemical penetration enhancer concentration changes**  
*Heather Benson*
- 11.30 **An in vitro skin permeation test comparing heat effects on transdermal delivery systems**  
*Audra Stinchcomb*

- 12.00 **CLOSING REMARKS** *Keith Brain*

- 12.10 lunch

## Organising Committee

K.R. Brain, Cardiff, UK  
M. Ginestet, Montpellier, France  
K.A. Walters, Cardiff, UK  
B.E. Williams, Cardiff, UK

## Scientific Advisory Board

J. Bouwstra, Leiden, The Netherlands  
R. Chilcott, Hatfield, UK  
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H. Maibach, San Francisco, USA  
K. Miller, Melrose, USA  
G. Moss, Keele, UK  
R. Pendlington, Sharnbrook, UK  
M. Roberts, Brisbane, Australia  
A. Williams, Reading, UK

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All parts of this meeting will take place in the Palais de Congres, La Grande Motte.

Transport to the Conference Dinner will depart from the Palais de Congres.

Details of the oral communications will be posted in the Reception Area

Poster board numbers are the same as page numbers in the abstract book

# PPP2022

Seventeenth  
International Conference

## Perspectives in Percutaneous Penetration



## PROGRAM

La Grande Motte,  
France

19<sup>th</sup>-22<sup>nd</sup> April, 2022