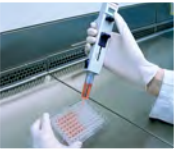




9th

International Conference and Workshop on
Biological Barriers –
in vitro and *in silico* Tools
for Drug Delivery and
Nanosafety Research



29 February - 9 March 2012

Saarland University
Saarbrücken, Germany

Programme Chairs and Organisers:
Prof. Dr. Claus-Michael Lehr, Prof. Dr. Ulrich F. Schäfer,
Jun. Prof. Dr. Marc Schneider, Dr. Nicole Daum

<http://www.uni-saarland.de/biobarriers2012>

Helmholtz Institute for Pharmaceutical Research Saarland



nanomedicine and drug delivery day in G
NanoDDS'12
AUG

stiftung
europrofession

Seminar 1: Skin Barrier

Reaching the Immune System via the Skin: New Vaccines and Adjuvants - Challenges and Opportunities

Relevance of *in vitro* studies for dermatological research

Howard Maibach, University of California, USA

Transdermal hyposensitisation

Thomas Kündig, University Hospital Zurich, Switzerland

Vaccine delivery and the role of new adjuvants

Carlos Guzman, Helmholtz Centre for Infection Research, Braunschweig, Germany

Vaccine delivery in the skin

Véronique Prémat, University of Leuven, Belgium

Emerging Needs and Models in Skin Delivery

Models of the normal skin

Bart de Wever, De Wever Consulting, Monaco

Models of the diseased skin

Hans Christian Korting, LMU, Munich, Germany

Wound healing and infections

Sheila MacNeil, University of Sheffield, UK

Technologies to Overcome the Skin Barrier

Laser ablation

Yogeshvar Kalia, University of Geneva, Switzerland

Follicle targeting

Jürgen Lademann, University Hospital Charité, Berlin, Germany

Patches

Michael Horstmann, Tesa SE, Hamburg, Germany

ROUND TABLE:

Skin Lipids - What is state of the art?

Lars Norlén, Karolinska University Hospital, Stockholm, Sweden

Joke Bouwstra, University of Leiden, The Netherlands

Phil Wertz, University of Iowa, USA

Annett Schröter, University of Halle, Germany

Mila Boncheva, Firmenich SA, Switzerland

Thursday, 1 March 2012

Seminar 1: Skin Barrier

Nanomedicine for Dermal Applications

Photodynamic therapy

Alfred Fahr, Friedrich Schiller University Jena, Germany

SECosomes

Barbara Geusens, Ghent University, Belgium

Nanotechnology and Cosmeceuticals

Johann Wiechers, JW Solutions, NL

Oral Presentations

to be selected from submitted abstracts of participants.

Analytic and Visualisation Tools

Quantifying drug transport and effects by non-invasive imaging

Michael S. Roberts, University of Queensland, Australia

Multiphoton imaging, CARS and Raman

Karsten König, JenLab, Jena & Saarland University, Germany

Electron Spin Resonance at the skin barrier

Martina Meinke, University Hospital Charité, Berlin, Germany

Optical diagnoses of skin diseases

Marica Ericson, University of Gothenburg, Sweden

Thursday, 1 March (afternoon) - Friday, 2 March 2012

Lab Course 1: Methods for the Skin Barrier

"Methods for the Skin Barrier" includes modules on Raman Microscopy, Franz-Diffusion-Cell, Tape-Stripping, *in vivo* and *in vitro* Multiphoton Imaging and CARS.

The number of participants for Lab Course 1 is limited to 30 persons. Early registration recommended!

Saturday, 3 March 2012

Complementary Training Courses, e.g. Scientific Writing, IP Management, Patents and Patent Research

Sunday, 4 March 2012

Excursion to the Saar-Lor-Lux Region

Seminar 2: Nanomedicine and Nanotoxicology

Nanomedicine and Nanotoxicology

Nano-cell-interactions

Wolfgang Parak, Philipps-Universität Marburg, Germany

Non-viral gene delivery systems

Ernst Wagner, Philipps-Universität, Marburg, Germany

Signaling pathways to overcome cellular barriers

Roland Brock, Nijmegen Centre for Molecular Life Sciences (NCMLS), Nijmegen, The Netherlands

Safety of Nanomaterials

Nanotoxicology: challenges and pitfalls

Vicki Stone, Heriot-Watt University Edinburgh, UK

Carbon nanotubes

Kostas Kostarelos, London School of Pharmacy, UK

Silver nanoparticles

Carsten Kneuer, Federal Institute for Risk Assessment (BfR), Berlin, Germany

Microbial and Immunological Barriers

Bacterial adhesion and invasion strategies

Petra Dersch, Helmholtz Centre for Infection Research, Braunschweig, Germany

Inflamed gut mucosa: a susceptible barrier

Roel Schins, IUF - Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany

Microbial biofilms

Susanne Häußler, Helmholtz Centre for Infection Research, Braunschweig, Germany

Nanotechnology and biofilms in dentistry

Matthias Hannig, Saarland University Hospital, Homburg, Germany

Biodegradable nanocapsules for targeting the immune system

Bruno de Geest, Ghent University, Belgium

Smart nanocarriers for targeting of the inflamed intestine

Niren Murthy, Georgia Institute of Technology, USA

nanomedicine and drug delivery day in Germany
NanoDDS'12

BioBarriers meets Nano DDS

Invited Speakers

Aptameres and other new molecules asking for advanced delivery technologies

Michael Famulok, University of Bonn, Germany

Gold nanorod mediated enhanced delivery of polymer therapeutics

Hamid Ghandehari, University of Utah, Salt Lake City, USA

Nanomedicines for Brain Diseases

Alexander Kabanov, University of Nebraska, Omaha, USA

Complex polymeric nanocarriers as obtained by miniemulsion techniques

Katharina Landfester, Max Planck Institute for Polymer Research, Mainz, Germany

Biocompatible Polymers

Andreas Lendlein, HZG Center for Biomaterial Development, Teltow, Germany

Nanobiopolymers for primary and metastatic cancer treatment

Julia Ljubimova, Cedars-Sinai Medical Center, Los Angeles, USA

Cancer stem cells specific therapy: Targeted nanomedicine for simultaneous suppression of CD44 protein and cell death induction

Tamara Minko, Rutgers University, New Brunswick, USA

Thermosensitive liposomes for locally triggered delivery

Dieter Haemmerich, Medical University South Carolina, USA

Engineering Nanoparticles for Sensing, Delivery and Therapeutic Applications

Vincent M. Rotello, University of Massachusetts, Amherst, USA

High throughput synthesis and screening of pharmaceutical polymers

Ulrich Schubert, Friedrich Schiller University Jena, Germany

Oral Presentations

to be selected from submitted abstracts of participants.

Seminar 2: Nanomedicine and Nanotoxicology

**Advanced Cell and Tissue Based
in vitro Models as Alternatives to Animal Testing**

Ethical aspects of animal experiments

N. N.

Immortalization strategies for mammalian cells

Dagmar Wirth, Helmholtz Centre for Infection Research,
Braunschweig, Germany

Macrophage models

Alexandra K. Kiemer, Saarland University,
Saarbrücken, Germany

Complex models of the air blood barrier

Sabine Fuchs, Johannes Gutenberg University,
Mainz, Germany

3D cultures in the rotating wall vessel

Cheryl Nickerson, Arizona State University, USA

Modeling the placenta barrier

Peter Wick, Empa, St. Gallen, Switzerland

Integrated "quasi-vivo" models

Arti Ahluwalia, University of Pisa, Italy

Thursday, 8 March (afternoon) - Friday, 9 March 2012

Lab Course 2: Pharmaceutical Nanomaterials

"Pharmaceutical Nanomaterials" includes modules on the preparation and characterization of nanoparticles and their interaction with biological barriers including modern visualization tools, e.g. AFM, SEM.

The number of participants for Lab Course 2 is limited to 40 persons. Early registration recommended!

Abstracts + Posters

Posters of participants will be on display during the entire workshop. Participants who wish to give a poster presentation must submit a 1-page (A4) abstract.

The poster may have a maximum size of 85 cm (horizontal) and 120 cm (vertical).

- I will submit abstract and poster
 I will NOT submit abstract and poster

Deadline for abstract submission: 1 February 2012.

Please note: Slots for contributed oral presentations of the submitted abstracts are on 1 March in the Seminar on Skin Barrier and on 6 March in Seminar on Nanomedicine and Nanotoxicology.

Accommodation

I am interested in

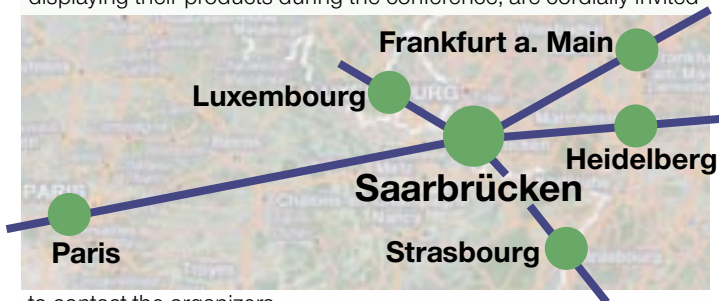
- student housing
 hotel list

Assistance

- I am handicapped and need assistance.

Sponsoring/ Industry Exhibition:

Companies interested in sponsoring this event, as well as in displaying their products during the conference, are cordially invited



to contact the organizers.

Personal Details

Title

Name

First Name

Affiliation

Address

Phone/Fax

e-mail

Payment Information:

Universität des Saarlandes

Bank1Saar

BLZ 591.900.00

Account-No 1011-69006

IBAN: DE87.5919.0000.0101.1690.06

BIC: SABADE5S

For credit card payment (MasterCard and VISA accepted) please see the form on the website.

Fax ++49(681) 302-4270

(affiliation)

Please contact the KWT conference office
for further information, registration and booking.

9th International Conference and Workshop on Biological Barriers

KWT – Conference Office

T: ++49 – 681 – 302 – 2656

F: ++49 – 681 – 302 – 4270

biobarriers2012@mx.uni-saarland.de

www.uni-saarland.de/biobarriers2012



Subscribe to our mailing list to receive the latest news on BB12 (biobarriers2012@mx.uni-saarland.de).

For the course booking, please mark with a cross the seminars and labcourses that you want to attend. Please also register for the optional events if you are interested to join. We can not guarantee that you can participate if you have not registered for these events in advance.

		<input type="checkbox"/> Students/ Academic		<input type="checkbox"/> Industry	
		early	regular	early	regular
<input type="checkbox"/> Seminar 1 – Skin Barrier	29 Feb – 1 Mar	250 €	350 €	400 €	500 €
<input type="checkbox"/> Seminar 1 and LabCourse 1	1 – 2 Mar	550 €	750 €	900 €	1100 €
<input type="checkbox"/> Seminar 2 - Nanomedicine/ -toxicology	5 – 7 Mar	300 €	400 €	500 €	600 €
<input type="checkbox"/> Seminar 2 and LabCourse 2	7 – 9 Mar	600 €	800 €	1000 €	1200 €
<input type="checkbox"/> All-in price		900 €	1200 €	1500 €	1900 €

Free optional bookings:

<input type="checkbox"/> Management Training Course	3 Mar	free for all participants
<input type="checkbox"/> Excursion	4 Mar	free for all participants
<input type="checkbox"/> Conference Dinner	6 Mar	free for all participants

Early registration fees apply when registration is submitted and fee paid before 15 December 2011.

All fees include: A conference dinner, various receptions, basic lunch caterings, coffee and public transportation within Saarbrücken.