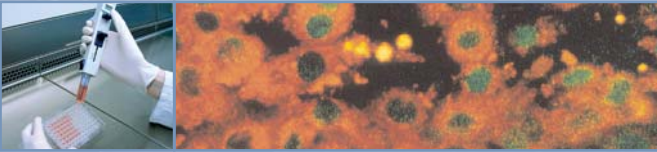




**8<sup>th</sup>**

international Conference and Workshop on  
**Biological Barriers –**  
*in vitro* Tools,  
Nanotoxicology, and  
Nanomedicine



**21 March – 1 April 2010**  
Saarland University  
Saarbrücken, Germany

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



[www.uni-saarland.de/biological-barriers2010](http://www.uni-saarland.de/biological-barriers2010)



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## Scope and Aim

The 8th International Conference and Workshop on Biological Barriers 2010 is committed to the pulsating questions in the triangle of *in vitro* tools, nanotoxicology, and nanomedicine. Due to the increasing need to investigate the safety and potential risks of new nanomaterials a new area of science - nanotoxicology - is currently



emerging. Although the expected answers might be different, nanotoxicology in many cases asks similar questions as nanomedicine and the same *in vitro* tools of biological barriers are obviously most relevant. Substantial part of the programme will therefore be dedicated to this topic and addressed by well known international experts, making

the conference and workshops most interesting to pharmaceutical scientists, material scientists, biologists, and toxicologists.

## Partner Organisations

The topic nanomedicine will be addressed in collaboration with the EC FP 7 integrated project MediTrans. Furthermore, this conference is co-organised with the CRS Local Chapter Germany giving an outstanding platform for young researchers to present their work and to meet experts from the area of controlled release. The special session dedicated to pulmonary drug delivery will be organised together with the International Society of Aerosols in Medicine (ISAM).



The event is split into two seminars and two lab courses that can be booked separately for those only interested in specific parts of the programme. Keynote lectures by international experts will address the most recent scientific developments in their particular

fields. In addition, attendees are encouraged to present and discuss their own research as posters. A few papers may also be selected for a short podium presentation. The organizers aim to provide an attractive forum both for experts and beginners to interact and discuss in a free and inspiring atmosphere.

The laboratory courses offer outstanding value and a unique training opportunity, but have limited capacity (!). They will provide the attendants with the opportunity to gain hands-on experience of advanced contemporary laboratory methods. Techniques include working with human skin and epithelial cell cultures, preparation and characterisation of nanoparticles, and important analytical and visualisation tools such as confocal, Raman, multiphoton, and atomic force microscopy.



## Preliminary Programme

**21 March: Arrival and welcome reception**

**22 – 24 March: Seminar I**

- Targeting and imaging (in cooperation with MediTrans)
- Pulmonary barriers and drug delivery (in cooperation with ISAM)
- Mechanisms and models of biological barriers
- Nanotoxicology
- CRS-Local Chapter Germany day on drug delivery with selected podium presentations

**25 – 26 March: Lab course I**

- Preparation and characterisation of nanoparticles and their interaction with biological barriers *in vitro*

**29 – 30 March: Seminar II**

- Skin barrier and drug delivery
- Analytical visualisation tools
- *in silico* modelling

**31 March – 1 April: Lab course II**

- *in vitro* models of human skin and application of modern visualisation tools

## Further information

8th International Conference  
and Workshop on Biological Barriers  
KWT - Conference Office  
T: ++49-681-302-2656  
F: ++49-681-302-4270



[biological-barriers2010@mx.uni-saarland.de](mailto:biological-barriers2010@mx.uni-saarland.de)

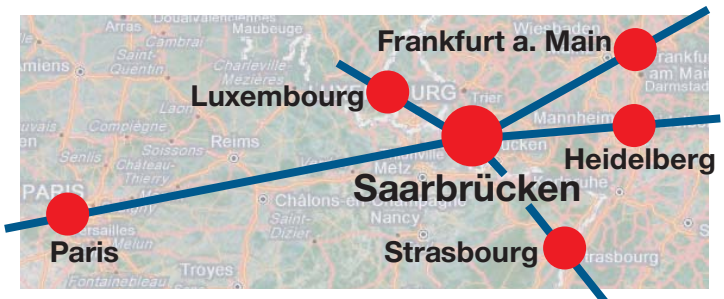
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Saarland University is located in the Saar-Lor-Lux region spoiled from a unique exposure at the heart of Europe - surrounded by



France with its lovely Alsace and challenging Lorraine, Luxembourg as the political heart of Europe and Rhineland-Palatinate with the famous wine route and the longest coherent area of forest in Germany. Participants of the

8th International Conference and Workshop on Biological Barriers will benefit from this truly worthwhile opportunity to visit the region and experience the “Saar-voir vivre” during the social programme.



### **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.