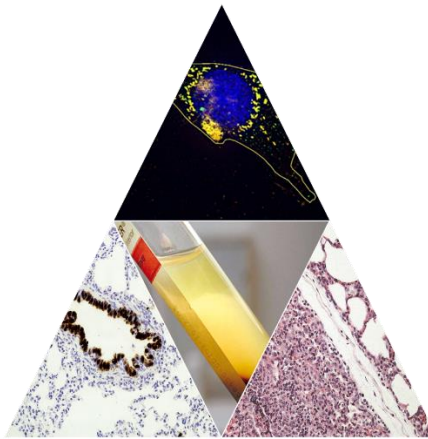




# Toxicology and Molecular Biology Techniques



SNAL is a multidisciplinary programme specially designed to provide both early stage as well as experienced researchers with scientific and transferable skills in cell membrane research field. This event of SNAL Marie Curie ITN Network is dedicated to enable better understanding of *in vitro*, *in vivo* and *ex vivo* research. The workshops will focus on recent discoveries around nano-objects and their interactions with living organisms, as well as impact on the environment and public health – which is not yet completely understood.

We hope that this meeting will inspire discussion and provide a great opportunity for participants to get in touch in a nice, friendly and relaxing environment.

## Meeting Plan

Thursday, 3th of December 2015  
Frankfurt am Main, Germany

- 18:00 Registration Open
- 19:00 Training Welcome and Opening Comments Dr. Shahram Ghanaati
- 19:30 Dinner & visit to the Christmas market

Friday, 4th of December 2015  
Frankfurt Goethe University - Hospital

- 9:00 Reception Open Building 23
- 9:30 Complementary Guided Tour of *Medical Centre of Goethe University* Andre Dias
- 9:45 Coffee / Tea break

### *In vivo session*

- 10:00 Introduction to clinical research Dr. Shahram Ghanaati
- 10:45 Animal experimentation: Past and Future Mike Barbeck
- 11:15 Discussion of the relevance of animal studies
- 11:45 *In vivo* concluding remarks
- 12:00 Lunch and exhibition of lab biomaterial collection  
(Buffet lunch served)

## *In vitro session*

13:30	The Emergence of Alternatives to Animal Research Introduction to <i>in vitro</i> technology	Prof. C. James Kirkpatrick
14:15	Co-culture and three – dimensional culture models	Dr. Eva Dohle
15:00	Discussion of relevance of <i>in vitro</i> studies	
15:15	Coffee/Tea Break	
16:00	Molecular Techniques in cancer tissue models	Dr. Patrick Booms
16:45	Discussion of validation	
17:00	<i>In vitro</i> concluding remarks	
17:15	Closing of the theoretical part	
20:00	Dinner (Restaurant near the hotel)	Dr. Shahram Ghanaati

## Saturday, 5th of December 2015 Frankfurt am Main, Germany

We would like to point out that the attendance to practical session is not mandatory and the activity is recommended for those who would like to gain insight into laboratory techniques available in FORM – Laboratory Frankfurt. The session is designed to give a brief overview of *in vivo* as well as *in vitro* techniques in the lab.

The Saturday session will start with the introduction to health and safety procedure. This activity is recommended to everyone who would like to participate in the following session.

Participants will be randomly split into smaller groups, with a maximum of 5 people per group. In this session, each attendee will get the opportunity to participate in three different sessions: PRF (Platelet Rich Fibrin), *in vitro* and *in vivo* techniques. Each part of the practical session will be held by a different person who will provide you with appropriate training.

We look forward to welcome you in our lab.

Saturday, 5<sup>th</sup> of December 2015

Time	Groups		
	1	2	3
9:00	Opening		
9:15	Introduction to workplace health & safety		
9:45	Coffee/Tea Break & Group division		
10:00	PRF	In vivo	In vitro
12:00	Lunch		
13:00	In vivo	In vitro	PRF
15:00	Coffee/Tea Break		
15:30	In vitro	PRF	In vivo
17:30	Concluding remarks of practical session		