Organizing Committee

PD Dr. Eike Nagel
Prof. Dr. Kristof Graf
Prof. Dr. Eckart Fleck
German Heart Institute Berlin, Germany

Confirmed Faculty:

Dennis Brümmer
Rudi Busse
Mike Crow
Mat Daemen
Ulrich Dirnagl
Zahi Fayad
Eckart Fleck
Paula Forster
Isabel Gonzalves
Kristof Graf
Michael Gräfe
Sylvia Heeneman
Leo Hofstra
Hans Koch
Dara Kraitchman
Ron Law
Kai Licha
David Maintz
Rainer McDonald
Eike Nagel
Ulrich Pison
Jorge Plutzky
Petra Schmalbrock
Jürgen Schneider
Markus Schwaiger
Frank Seifert
David Sosnovik
Philipp Stawowy
Gustav Strijkers
Matthias Stuber
Matthias Taupitz
Samuel Wickline
Andreas Wunder

Sponsors

Location

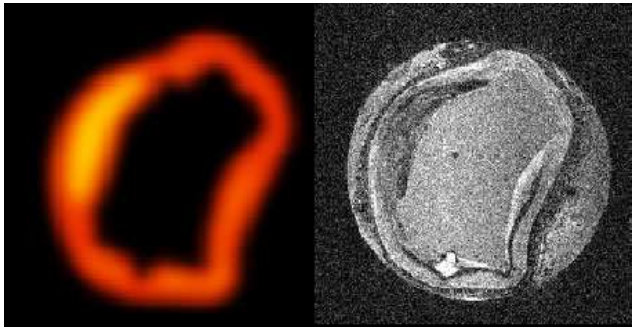
Hermann von Helmholtz Bau
Physikalisch-Technische Bundesanstalt
Abbestr. 2-12
D-10587 Berlin, Germany

By train
Station Berlin Zoologischer Garten is a 20-min. walk from PTB campus. Subway U2 (destination Ruhleben), buses 145 and 245, and express bus X9 connect to Ernst-Reuter-Platz (5 min walk).

By plane
Airport Berlin-Tegel is connected to Ernst-Reuter-Platz and train station Berlin Zoologischer Garten by express bus X9. Airport Berlin-Schönefeld is connected to train station Berlin Zoologischer Garten by railway (Regionalexpress) and by S-Bahn S9.

By car
The PTB campus is located in the City West of Berlin, close to train station Berlin Zoologischer Garten and the Technical University.

Specific Imaging of Vascular Targets Berlin 2006



23. – 24.6.2006

Hermann von Helmholtz Bau
Berlin, Germany

under the auspices of:

Welcome Address

Specific imaging of vascular targets is a major challenge to improve the quality of medicine in the next decade to come. It may for the first time allow us to understand the complex process of plaque development and rupture in humans and give us tools to detect vulnerability, stop or revert the development of vulnerable plaques or even stabilize them.

To overcome the difficulties of reaching this goal, scientists of different specialities have to join forces. They need to overcome the borders of different faculties and backgrounds. The workshop will provide a forum for discussion between physicians, physicists, chemists, biologists, and other specialists.

We will discuss plaque development, different animal models, specific targets expressed in plaques during the process of destabilization, methods to develop new contrast agents for magnetic resonance imaging, near infrared spectroscopy, nuclear imaging techniques and how to optimally visualize those contrast agents. The highly recognized international faculty will provide insight into state of the art results – and problems encountered, solved or unsolved.

We believe, that it is time for such a meeting, and that the Helmholtz Bau at the Physikalisch Technische Bundesanstalt (national metrology institute) in Berlin is the perfect place to meet and discuss – in the end, we want to detect, measure, quantify, and understand!

We are looking forward to an exciting meeting and to welcome you in Berlin,

Eike Nagel; Kristof Graf, Eckart Fleck
German Heart Institute Berlin

Programme

Friday 23.6.2006

What should be marked in the plaque	J. Schrader, Düsseldorf
What role play nuclear receptors in atherosclerosis and diabetes	Jorge Plutzky; Boston, USA
What could be interesting targets in atherosclerotic plaques	Ron Law, Lexington, USA
Apoptosis in cardiovascular systems - Are there targets in the vessel wall?	Mike Crow; Baltimore; USA
Role of endothelium - why endothelial targets?	Rudi Busse; Frankfurt
Osteopontin in atherosclerosis and injury	Dennis Brümmer, Lexington, USA
How to find a target	Sylvia Heeneman; Maastricht, NL
Imaging of inflammation in experimental stroke	Ulrich Dirnagl; Berlin
MR imaging strategies for Fe-imaging	Matthias Stuber; Baltimore; USA
Specific Gd-contrast agents	Samuel Wickline; St. Louis, USA
Gadofluorin	Jörg Meding; Berlin
(Specific) iron oxide contrast agents	Matthias Taupitz; Berlin
Quantitative assessment of contrast agent charateristics	Frank Seifert, Berlin
Lipid based multimodal contrast agents	Gustav Strijkers; Eindhoven, NL
Combination of MR and optical imaging (Why? How?)	Rainer McDonald; Berlin
PET, PET/CT	Ulrich Pison; Berlin
NIR	Kai Licha; Berlin
NUC Options for targeted imaging	Markus Schwaiger; Munich
Optical imaging - results	Andreas Wunder; Berlin

Saturday 24.6.2006

Stem cell imaging	Dara Kraitchman, Baltimore, USA
Annexin imaging	Leo Hofstra; Maastricht, NL
Oxidized LDL imaging	Isabel Gonzalves, Malmö, S
CD 40 imaging	Michael Gräfe; Berlin
EDB-Fibronectin	Kristof Graf; Berlin
PCs - key regulators of cell matrix interaction in atheroscslerosis	Philipp Stawowy; Berlin
Contrast enhanced MR imaging of coronary plaques	David Maintz; Münster
Cellular MRI	Paula Foster; London, Canada
Molecular Imaging (Boston)	David Sosnovik; Boston, USA
Molecular Imaging (New York)	Zahi Fayad; New York, USA
Which animal model is best suited to model human coronary artery plaque - and why	Mat Daemen; Maastricht, NL
(Ultra) High Field Animal Imaging	Juergen Schneider, Oxford, UK
From 3T to 7T and back	Eike Nagel; Berlin
Human 7 Tesla imaging	Petra Schmalbrock, Cleveland; USA
The Future or Imaging in Berlin	Helmut Kunze; Berlin Eckart Fleck; Berlin

Organizational Details

For more information please look at

www.dhzb.de/vascular-targets/

www.cmr-academy.com/vascular-targets/

Please contact Ms. Arts at:
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Conference fee:
210 Euro (until 31.3.2006)
250 Euro (after 31.3.2006)
100 Euro (first / second year of training; student)

Results from the conference will be published in the Journal or Cardiovascular Magnetic Resonance and Cardiovascular Research

Programme

23. Juni 2006

09:00	00:10	09:10	**Welcome Adress - Physikalisch Technische Bundesanstalt**	**Prof. Dr. H. Koch; Berlin**
09:10	00:10	09:20	**Welcome Adress - Technical University Berlin**	**Prof. Dr. Kutzler; Berlin**
09:20	00:10	09:30	**Towards specific plaque imaging in cardiology - 20 years of DHZB**	**Eckart Fleck; Berlin**
09:30	00:50	10:20		**Graf / Wickline**
09:30	00:30	10:00	**What could be interesting targets in atherosclerotic plaques**	**Ron Law, Lexington, USA**
10:00	00:20	10:20	**Panel discussion**	
10:20	00:20	10:40	**break**	
10:40	01:35	12:15		**Graf / Wickline**
10:40	00:15	10:55	**Role of endothelium - why endothelial targets?**	**Rudi Busse; Frankfurt**
10:55	00:15	11:10	**Osteopontin in atherosclerosis and injury**	**Dennis Brümmer, Lexington, USA**
11:10	00:15	11:25	**How to find a target**	**Sylvia Heeneman; Maastricht, NL**
11:25	00:15	11:40	**Imaging of inflammation in experimental stroke**	**Ulrich Dirnagl; Berlin**
11:40	00:15	11:55	**MR imaging strategies for Gd-imaging**	**Rene Botnar; München**
11:55	00:20	12:15	**Panel discussion**	
12:15	01:10	13:25	**lunch**	
13:25	01:50	15:15		**Stuber / Law**
13:25	00:15	13:40	**MR imaging strategies for Fe-imaging**	**Matthias Stuber; Baltimore; USA**
13:40	00:15	13:55	**Specific Gd-contrast agents**	**Samuel Wickline; St. Louis, USA**
13:55	00:15	14:10	**Gadofluorin**	**Jörg Meding; Berlin**
14:10	00:15	14:25	**(Specific) iron oxide contrast agents**	**Matthias Taupitz; Berlin**
14:25	00:15	14:40	**Quantitative assessment of contrast agent charateristics (nuclear, optical, MR-iron, MR-Gd, etc.)**	**Frank Seifert, Berlin**
14:40	00:15	14:55	**Lipid based multimodal contrast agents**	**G.J. Strijkers;Eindhoven, NL**
14:55	00:20	15:15	**Panel discussion**	
15:15	00:20	15:35	**break**	
15:35	01:35	17:10		**Pison / Wunder**
15:35	00:15	15:50	**PET, PET/CT**	**Ulrich Pison; Berlin**
15:50	00:15	16:05	**NUC Options for targeted imaging**	**Markus Schwaiger; Munich**
16:05	00:15	16:20	**Optical imaging - results**	**Andreas Wunder; Berlin**
16:20	00:15	16:35	**NIR**	**Kai Licha; Berlin**
16:35	00:15	16:50	**Combination of MR and optical imaging**	**Rainer McDonald; Berlin**
16:50	00:20	17:10	**Panel discussion**	
17:10			**end of session**	

24. Juni 2006				
09:00	01:50	10:50	**Imaging and Analysis strategies**	**Fayad / Sosnovik**
09:00	00:15	09:15	**Stem cell imaging**	**Dara Kraitchman, Baltimore, USA**
09:15	00:15	09:30	**Endothelial Targets**	**Henning Morawitz; Dresden**
09:30	00:15	09:45	**Oxidized LDL imaging**	**Isabel Gonzalves, Malmö, S**
09:45	00:15	10:00	**CD 40 imaging**	**Michael Gräfe; Berlin**
10:00	00:15	10:15	**EDB-Fibronectin**	**Kristof Graf; Berlin**
10:15	00:15	10:30	**PCs - key regulators of cell matrix interaction in atheroscslerosis**	**Philipp Stawowy; Berlin**
10:30	00:20	10:50	**Panel discussion**	
10:50	00:20	11:10	**break**	
11:10	01:35	12:45		**Stuber / Kraitchman**
11:10	00:15	11:25	**Contrast enhanced MR imaging of coronary plaques in humans**	**David Maintz; Münster**
11:25	00:15	11:40	**Imaging Cells Using MRI and Magnetic Nanoparticles**	**Paula Foster; London, Canada**
11:40	00:15	11:55	**Annexin imaging**	**Leo Hofstra; Maastricht, NL**
11:55	00:15	12:10	**Molecular Imaging (Boston)**	**David Sosnovik; Boston, USA**
12:10	00:15	12:25	**Molecular Imaging (New York)**	**Zahi Fayad; New York, USA**
12:25	00:20	12:45	**Panel discussion**	
12:45	01:15	14:00	**lunch**	
14:00	01:35	15:35		
14:00	00:15	14:15	**Which animal model is best suited to model human coronary artery plaque - and why**	**Mat Daemen; Maastricht, NL**
14:15	00:15	14:30	**(Ultra) High Field Animal Imaging**	**Juergen Schneider, Oxford, UK**
14:30	00:15	14:45	**From 3T to 7T and back**	**Eike Nagel; Berlin**
14:45	00:15	15:00	**Human 7 Tesla imaging**	**Petra Schmalbrock, Cleveland; USA**
15:00	00:15	15:15	**The Future or Imaging in Berlin**	**Helmut Kunze; Berlin** **Eckart Fleck; Berlin**
15:15	00:20	15:35	**Panel discussion**	
15:35	00:30	16:05	**Adjourn**	