

## CONTACT

### REGISTRATION (until 16 April 2012)

**There is no conference fee, however, please register in time:**  
conference(at)ea-aw.de

Europäische Akademie GmbH  
Wilhelmstr. 56  
53474 Bad Neuenahr-Ahrweiler  
Telefon +49 (0) 2641 973-300  
Telefax +49 (0) 2641 973-320  
www.ea-aw.de

### BURSARIES

A limited number of bursaries to cover travel and accommodation are available for junior scientists. Please apply before 29 March 2012, including an application letter and your CV, to:

**PD Dr. med. Felix Thiele**

Deputy Director of the Europäische Akademie GmbH  
E-mail: conference(at)ea-aw.de

### ORGANISATION

**PD Dr. med. Felix Thiele**

**Dr. rer. nat. Jan Mehlich**

Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler (consortium partner of the EU-funded NanoDiaRA-project)

### CONFERENCE VENUE

**Berlin-Brandenburg Academy of Sciences and Humanities**

Jägerstr. 22/23  
10117 Berlin  
Telefon +49 (0) 30 20370-0  
Telefax +49 (0) 30 20370-600  
www.bbaw.de

Please make your own hotel reservations (hotels near conference venue are, e.g., Hotel Angletterre, Mercure Checkpoint Charlie, Gendarm, NH Hotel Berlin Mitte or Arcotel John F. For a general overview: [www.hrs.com](http://www.hrs.com)).

### HOW TO GET THERE

#### BY AIR:

##### Flughafen Tegel:

- JetExpressBus TXL -> Unter den Linden/Friedrichstraße
- Bus 128 -> U Kurt-Schumacher-Platz, change to U6 direction Alt Mariendorf -> U Französische Straße
- JetExpressBus X9 -> U Ernst-Reuter-Platz, change to U2 direction Pankow -> U Hausvogteiplatz

##### Flughafen Schönefeld:

- S9 -> S+U Alexanderplatz, change to U2 direction Ruhleben -> U Hausvogteiplatz
- Train RB 14 (direction Nauen -> S+U Friedrichstraße, change to U6 direction Alt Mariendorf -> U Französische Straße
- JetExpressBus X7 -> U Rudow, change to U7 direction Rathaus Spandau -> U Mehringdamm, change to U6 direction Alt-Tegel -> U Französische Straße

#### BY TRAIN:

- Berlin Hauptbahnhof -> S5, S7, S9, S75 to Friedrichstrasse -> U6 direction Alt Mariendorf -> Französische Strasse
- Berlin Zoologischer Garten: U2 direction Pankow -> U Hausvogteiplatz
- Berlin Ostbahnhof: S5, S7, S9, S75 to S+U Alexanderplatz, change to U2 direction Ruhleben -> U Hausvogteiplatz

#### BY CAR:

If you are coming by car, we recommend you use one of the nearby car parks: Friedrichstadt Passagen, Hotel Hilton or Unter den Linden/Staatsoper

Further information: <http://veranstaltungszentrum.bbaw.de/en/directions>

## CONFERENCE

### NANOMEDICINE VISIONS, RISKS, POTENTIAL

**19/20 April 2012**

Berlin-Brandenburg Academy of Sciences and Humanities, Berlin



**NanoDiaRA**  
Particles, Molecules & Cells · Diagnosis in-vitro  
& in-vivo · Rheumatoid Arthritis & Osteoarthritis



# NANOMEDICINE

## VISIONS, RISKS, POTENTIAL

Nanotechnology is frequently judged to be a key technology of the 21<sup>st</sup> century. Although not all research areas that were awarded this honorary title in the past have so far fulfilled all the expectations, thinking of nanotechnology as a highly important research area surely is justified. Especially in the field of medicine nanotechnology may help to develop new and effective applications. However, as with many modern technologies, there are considerable moral concerns about the consequences nanotechnology may have for humans and their environment.

The Spring Conference of the Europäische Akademie Bad Neuenahr-Ahrweiler GmbH aims at discussing recent trends in the development of nanotechnological methods in medical applications with experts from different involved fields of research from an interdisciplinary perspective. There will be sessions on scientific and technical aspects of nanomedicine, on risk and other ethical issues as well as on the social impact of nanomedicine in the context of science, industry and the public.

### Poster Session

We are interested in contributions from scientists from all involved fields. Especially young scientists researching on technical, ethical, social or legal aspects of nanotechnology related to medicine are invited to take part with their "Visions on nanomedicine" (standard poster DIN A0 format). Evaluated by a jury (with the conference's speakers as its members), the best poster will be awarded a book voucher (150,- Euros).

**Application:** Applicants may send an abstract containing contact data (name, institution/company, address, email) and a short description of the project together with their conference registration (deadline poster submission: 29 March 2012).

### The NanoDiaRA consortium

*The interdisciplinary consortium "Development of Novel Nanotechnology Based Diagnostic Systems for Rheumatoid Arthritis and Osteoarthritis (NanoDiaRA)" is subsidized by the European Union (FP7) and consists of 15 European partners from university and non-university institutions. The Europäische Akademie GmbH, organiser of the spring conference, is its administrative coordinator (further information: [www.nanodiara.eu](http://www.nanodiara.eu)).*

## THURSDAY, 19 APRIL 2012

- 9.00 Registration**
- 9.30 Welcome and Introduction**  
(PD Dr. med. Felix Thiele, Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler, Germany)

### SESSION I: TRENDS IN NANOMEDICINE

(Chair: PD Dr. med. Felix Thiele, Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler, Germany)

- 9.45 Nanotechnology in diagnostics and treatment of rheumatoid arthritis and osteoarthritis – visions and potentials**  
Dr. rer. nat. Timo Gaber-Elsner, Charité, Berlin, Germany
- 10.30 Nanoparticles for drug delivery – from fiction to reality in pharma**  
Professor Dr. rer. nat. Rainer Müller, Freie Universität Berlin, Germany
- 11.15 Break**
- 11:30 Thermotherapy with magnetic nanoparticles: from an idea to products up to the market launch**  
Dr. rer. nat. Andreas Jordan, MagForce, Berlin, Germany
- 12.15 Smart nanoparticles in the biomedical research**  
Gianni Ciofani, Ph.D., Istituto Italiano di Tecnologia, Pisa, Italy
- 13.00 Lunch**

### SESSION II: RISK AND OTHER ETHICAL ISSUES

(Chair: Dr. rer. nat. Jan Mehlich, Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler, Germany)

- 14.30 Nanomedicine – nanotoxicology: controversial aspects of nanotechnological applications**  
Professor Dr. rer. nat. Harald Krug, EMPA, St. Gallen, Switzerland
- 15.15 From risks to regulation: Regulatory aspects of nanomedicine**  
Joel D'Silva, Universiteit Twente, Enschede, The Netherlands
- 16.00 Break**
- 16.15 Nanomedicine is more than a matter of risk. The generic tendency to focus on public acceptance and risk perception**  
Professor Harro van Lente, Ph.D., Universiteit Utrecht, The Netherlands
- 17.00 Poster Session**

## FRIDAY, 20 APRIL 2012

### SESSION III: SCIENCE, INDUSTRY AND THE PUBLIC

(Chair: Dr. rer. nat. Stephan Lingner, Europäische Akademie GmbH, Bad Neuenahr-Ahrweiler, Germany)

- 9.30 The (in)visible revolution?! Citizens' making sense of nanomedicine**  
Professor Dr. phil. Ulrike Felt, Universität Wien, Austria
- 10.15 Nanotechnology and society**  
Dr. rer. pol. Joscha Wullweber, Universität Kassel, Germany
- 11.00 Break**
- 11.15 Nanomedicine: An exceptional regulatory and ethical challenge?**  
Professor Roger Brownsword, King's College, London, UK
- 12.00 Lunch**
- 13.00 End of conference**