

Please note the Award Ceremony of the
International Schrauzer Prize 2005 on Selenium Research
starting on Sunday 4.30 p.m., same location

3rd Symposium

DFG Priority Programme 1087 Selenoproteins

March 19 - 21, 2006

International Review Board

Åkesson, Björn, Lund, Sweden
Burk, Raymond , Nashville, TN, USA
Goody, Roger , Dortmund, Germany
Holmgren, Arne, Stockholm, Sweden
Krol, Alain , Strasbourg, France
Retey, Janos, Karlsruhe, Germany
Schirmer, Heiner, Heidelberg, Germany

Invited Speakers

Blankenburg, Stefan, Mainz, Germany
Burk, Raymond , Nashville, TN, USA
Gladyshev, Vadim, Lincoln, NB, USA
Hatfield, Dolph, Bethesda, MD, USA
Lei, Xingen, Ithaca, NY, USA
Leibundgut, Marc Zurich, CH
Alain Lescure. Strasbourg, F
Mugesh, Govindasamy, Bangalore, India

3rd Symposium DFG Priority Programme Selenoproteins

Sunday, March 19 2006

18:30 Welcome Event SeSPP 1087 Selenoproteins

18:30 Introduction: Dr. Raffler, Bonn, Representative DFG
Josef Köhrle, Berlin, Programme Coordinator

18:45 Summary & Achievements of the Selenoprotein Priority Programme
Josef Köhrle, Berlin

19:30 Drinks, Dinner and Networking

3rd Symposium DFG Priority Programme Selenoproteins

Monday, March 20 2006

Session 1: Structure, biosynthesis and regulation of Selenoproteins

- 8.30 Markus Wahl, Göttingen: Crystal structure analyses of selenoprotein biosynthesis
- 9:05 Marc Leibundgut, Zurich, CH: Structure and function of selenocysteine tRNA-specific elongation factor SelB
- 9:50 Marina Rodnina, Witten-Herdecke: Molecular mechanisms of selenocysteine incorporation in bacterial translation

10:25-11:00 Coffee Break

- 11:00 Gerd Vorbrüggen, Göttingen: Selenoproteins in *Drosophila*: conserved mechanism for incorporation but not essential
- 11:35 Dolph Hatfield, NIH, USA: Novel components of the selenoprotein synthesis machinery

12:20-13:30 Lunch

Session 2 Function of Selenoproteins

- 13:30 Vadim Gladyshev, Lincoln, USA: Novel selenoproteins
- 14:15 Christoph Ufer, Astrid Borchert, Hartmut Kühn, Berlin: Expression regulation of the Phospholipid Hydroperoxide Glutathione Peroxidase
- 14:50 Anja Bräuer & Nicolai Savaskan, Berlin: Selenium targets specific selenoprotein expression in microglial cells

15:25-16:00 Coffee Break

- 16:00 Lisa Dalla Puppa, Antonios Kyriakopoulos, Berlin: Selenoproteins in the microglia cells
- 16:35 Holger Steinbrenner, Philippe Walter, Lirija Alili, Helmut Sies, Lars-Oliver Klotz, Peter Brenneisen, Düsseldorf: Selenoprotein P in liver and brain: regulation and protective functions

17:10 Alain Lescure, Strasbourg, F: Understanding selenium and selenoproteins importance in muscle function

17:55 Regina Ebert & Franz Jakob, Würzburg: Selenium and stem cell aging

18:20 Chats & Drinks

19:00 Dinner

20:30 **After Dinner Lecture:** Raymond Burk, Nashville, USA: Selenoproteins as Biomarkers of Human Selenium Status

21:15 Open end discussion on perspectives of selenoprotein networks and future funding structures

Tuesday, March 20 2006

Session 3: Lessons from transgenic mouse models

8:30 Markus Brielmeier, Neuherberg: "Tissue-specific gene targeting of mitochondrial thioredoxin reductase (TR2) in mice: state of the art"

9:05 Marcus Conrad & Georg Bornkamm, Munich: The nuclear form of phospholipid hydroperoxide glutathione peroxidase is a protein thiol peroxidase and contributes to sperm chromatin stability

9:40 Sandra Pilawa & Leopold Flohe, Braunschweig/Magdeburg: "A genomic and proteomic approach to clarify the transformation of PHGPx during sperm maturation".

10:15-10:45 Coffee Break

10:45 Xingen Lei, Cornell, USA: Transgenic models for evaluating of glutathione peroxidase function

11:30 Lutz Schomburg & Ulrich Schweizer, Berlin: Gender-specific differences in the regulation of selenoprotein expression

12:05 Cornelia Schmutzler, Birgit Mentrup, Josef Köhrle, Berlin: Studies on the expression, function and regulation of selenoproteins of the thyroid

12.40-13:30 Lunch

Session 4: Selenoproteins as therapeutic targets

13:30 Govindasamy Mugesh, Bangalore, India: Selenium-based drugs development

14:15 Regina Brigelius-Flohé, Potsdam: Selenium and sulforaphane: partners in cancer prevention?

14:50 Sabine Urig, Stefan Rahlfs & Katja Becker, Gießen: Selective inhibition of human thioredoxin reductase as novel chemotherapeutic strategy

15:15-15:45 Coffee Break

15:45 Stefan Blankenberg, Mainz: Selenium status and cardiovascular diseases

16:30 Ludger Wessjohann & Wolfgang Brandt, Halle: Synthetic and computational studies on selenopeptides and -proteins.

17:05 **Plenary Discussion:** Perspectives and future plans in Selenium research

17:45 **Summary and Closing Remarks:** DFG Representative & Coordinator

NOTABENE: Every Speaker must keep free 10 (in words: TEN) minutes of his allocated time for discussion!
This meeting is intended to have a workshop character in a communication-friendly environment.

Please note, there might be changes in the programme !

March 7, 2006

Travel Information

Airports

Tegel:

Bus X9 direction S+U Zoologischer Garten until terminal **S+U Zoologischer Garten**

either regional train **RE3** direction Dessau Hauptbahnhof

or regional train **RE1** direction Magdeburg Hauptbahnhof

or urban rail (S-Bahn) **S7** direction Wannsee

until station **Wannsee**

(30 - 40 min)

Schönefeld:

5 min walk from the airport to train station **Flughafen Berlin Schönefeld Bahnhof**

Regional train "RB 5" direction "Stralsund, Bahnhof" until station **S+U Zoologischer Garten**

Proceed as above

(approx. 60 min)

Tempelhof:

Bus 184 direction U Krumme Lanke until station **U Platz der Luftbrücke** (one stop)

Metro U6 direction Alt-Tegel until station **S+U Friedrichstraße**

Regional train **RE 1** direction Magdeburg Hauptbahnhof until station **Wannsee**
(approx. 40 min)

Train Stations

Zoologischer Garten

Either regional train **RE3** direction Dessau Hauptbahnhof

or regional train **RE1** direction Magdeburg Hauptbahnhof

or urban rail (S-Bahn) **S7** direction Wannsee

until station **Wannsee**

(approx. 15 min)

Ostbahnhof

Regional train **RE3** direction Dessau Hauptbahnhof until station **Wannsee**
(approx. 30 min)

Hauptbahnhof

Urban rail (S-Bahn) **S7** direction Wannsee until station **Wannsee**
(approx. 25 min)

Taxis at S-Bahn Stations

Hotel Shuttle Service at arrival and departure (only from Train/S-Bahn Station **Wannsee** to the Hotel !!!)

By Car

Motorway A 115 (AVUS), exit Spanische Allee onto Wannseebadweg to Inselstraße.



Weather: Better be prepared (Berlin is still in the grip of winter since end of December, really unusual !!)