



Welcome to the 1st ISMST Basic Research Meeting!

Dear Colleagues,

“Composing a symphony” means to unite different resonances to a concerted appearance. As a theme of this meeting it means to us to consolidate our individual efforts in shock wave basic research. We want to abstract what is already known in the special fields of shock wave science and find out what would be the most important steps for future experiments. Thereby hopefully some cooperations will be established. This meeting is rather meant to be a workshop than a congress.

We feel privileged that many of the leading investigators in the field have accepted our invitation to actively participate by giving review lectures and many others sent us their highly interesting abstracts on emerging fields. We want to encourage you as well to bring your own slides about your most recent research work even if it is very preliminary to discuss it with other specialists.
(See “Your Short Presentation” stated below.)

We are very much looking forward to meeting you in January 2010 in Vienna!

Organizing Committee:

Michael Grimm, Johannes Holfeld, Wolfgang Schaden, DS.4 -4 (V)e.4 -4 (i) -4 (m) -5 (o) -9(l) -4) -8 (:) -4 () :TJ ET :q

Meeting Fee

Scientists, Physicians: Euro 200,-

Industry Members: Euro 400,-

Meeting fee includes coffee breaks, lunch and social evening.

Methods of payment (in Euro): Cash or credit card, both on-site at the registration desk!

Venue and Accommodation



Mercure Grand Hotel Biedermeier

Landstrasser Hauptstrasse 28

1030 Vienna, Austria

Phone : (+43) 1/ 716710

Fax : (+43) 1/ 71671503

www.mercure.com

Travel Information

Vienna International Airport (VIE) is located approximately 20 km from the city. Airport transfers are either 25 min. by taxi or 20 min. by City Airport Train. Its terminal called "Wien-Mitte" is about 5 min. walking distance to the hotel. www.cityairporttrain.com

Your Short Presentation

After each review lecture we want to have an open discussion to achieve a consensus on the most interesting questions and decide who will work on these issues till the next meeting. **Therefore we kindly ask you to prepare 3 to 5 slides if your research fits to one of the review lectures. Everyone who can share some interesting - even with very preliminary - data is welcome to support this discussion.** Your experience shall be the basis to plan future research steps together.

Please provide your slides at media check times at the venue.

Media Check

Please prepare your slides as a Microsoft PowerPoint presentation and provide it on a USB stick during registration times at the beginning of the meeting (Thursday evening and Friday morning, see program!). For video presentations please use common file formats only!



Scientific Program

Thursday, January 21

18:00 – 20:00 Registration, Media Check

19:00 Welcome Cocktail

Friday, January 22

08:30 – 09:00 Registration, Media Check

09:00 – 09:30 Opening words, Introduction

09:30 – 10:00 Mechanotransduction - Wilhelm Bloch (Germany)

Chairmen: Sergio Russo (Italy), Wolfgang Schaden (Austria)

10:00 – 10:30 Discussion

10:30 – 11:00 Coffee Break

11:00 – 11:45 Molecular Reactions - Ching-Jen Wang (Taiwan)

Chairmen: Carlos Leal (Columbia), Helmut Neuland (Germany)

11:45 – 12:30 Discussion

12:30 – 14:00 Lunch

14:00 – 14:30 Free Radicals - Hans-Jürgen Duchstein (Germany)

Chairmen: Roberto Frairia (Italy), Johannes Holfeld (Austria)

14:30 – 15:00 Discussion

15:00 – 15:30 Angiogenesis - Carlos Leal (Columbia), Manuel Brañes (Chile)

Chairmen: M. Cristina d'Agostino (Italy), Michael Grimm (Austria)

15:30 – 16:00 Discussion

16:00 – 16:30 Coffee Break

Scientific Program

Friday, January 22

- 16:30 – 17:00** **Repair versus Regeneration - Rainer Mittermayr (Austria)**
Chairmen: Hans-Jürgen Duchstein (Germany), Robert Schmidhammer (Austria)
- 17:00 – 17:30 Discussion
- 17:30 – 19:00** **Emerging Fields – In Vitro**
Chairmen: Richard Thiele (Germany), Wolfgang Schaden (Austria)
- Johannes Holfeld (Austria)
- Introduction: Rationale for In Vitro Shock Wave Trials (IVSWT)**
- Thomas J. Matula, H. Chen, W. Kreider, M. Bailey, A. Brayman (USA)
- Interaction of cavitation bubbles with blood vessels and surrounding tissue**
- Anna Weihs, S. Wolbank, D. Rünzler (Austria)
- Establishment of an In Vitro Experimental Set-up to Evaluate the Biological Effects of Extracorporeal Shock Wave Treatment**
- Sandra Münch, C. Ottomann, C. Belfekroun, B. Petschke, M. Smith, B. Hartmann (Germany)
- Influence of Extracorporeal Shock Waves on In Vitro Keratinocytes – Preliminary Results**
- Barbara Kapeller, J. Holfeld, C. Tepeköylü, F. Hack, B. Thometich, W. Schaden, M. Grimm, K. Macfelda (Austria)
- Influence of Shock Wave Treatment on Connexine Expression of Cardiac Cells In Vitro**
- Discussion about In Vitro Models**
- 20:00** **Social Evening at “Stadtwirt”**

Scientific Program

Saturday, January 23

- 09:00 – 09:30** **Osteogenesis and Bone Turnover - M. Cristina d’Agostino (Italy)**
Chairmen: Donald J. Ferguson (Dubai), Heinz Kuderna (Austria)
- 09:30 – 10:00 Discussion
- 10:00 – 10:30** **Coffee Break**
- 10:30 – 11:00** **Stem and Progenitor Cells - Johannes Holfeld (Austria)**
Chairmen: Ludger Gerdesmeyer (Germany), Rainer Mittermayr (Austria)
- 11:00 – 11:30 Discussion
- 11:30 – 13:00** **Round Table: “Treatment Parameters” – moderation: Wolfgang Schaden (Austria)**
 Ludger Gerdesmeyer (Germany), Thomas J. Matula (USA), Helmut Neuland (Germany), Sergio Russo (Italy), Richard Thiele (Germany), Ching-Jen Wang (Taiwan)
- 13:00 – 14:30** **Lunch**
- 14:30 – 15:00** **Malignant Tumors - Roberto Frairia (Italy)**
Chairmen: Ching-Jen Wang (Taiwan), Wolfgang Schaden (Austria)
- 15:00 – 15:30 Discussion
- 15:30 – 16:00** **Translational ESWT: experimental ↔ clinic - Ludger Gerdesmeyer (Germany)**
Chairmen: Wilhelm Bloch (Italy), Daniel Zimpfer (Austria)
- 16:00 – 16:30 Discussion
- 16:30 – 17:00** **Coffee Break**

Scientific Program

Saturday, January 23

17:00 – 18:30

Emerging Fields – In Vivo

Chairmen: Sergio Russo (Italy), Vinzenz Auersperg (Austria)

Donald J. Ferguson (Dubai)

Osteopenic Response to Alveolar Stimulation & Implications for Shockwave

Olav P. Van der Jagt, J.H. Waarsing, N. Kops, W. Schaden, J.A.N. Verhaar, H. Weinans (The Netherlands)

Unfocused Extracorporeal Shock Waves as a Potential Treatment for Osteoporosis

Thomas Hausner, K. Pajer, W. Schaden, G. Halat, H. Redl, A. N6grádi, R. Schmidhammer (Austria)

Treatment with de-focused Low Energy Shock Wave Applied Immediately after Nerve Repair Enhances Axonal Elongation and Improves Functional Outcome in an Experimental Study in the Rat

Daniel Zimpfer, J. Holfeld, J. Dumfarth, S. Aharinejad, H. Tschernich, M. Czerny, W. Schaden, M. Grimm (Austria)

Direct Epicardial Shock Wave Therapy in Humans

19:30

Dinner

Social Program

Welcome Cocktail

Thursday, January 21, 19:30 at the hotel

Social Evening

Friday, January 22, 20:00 at a typical Viennese tavern

Dinner

Saturday, January 23, 19:30

Brunch

Sunday, January 24



Social Evening, January 22:

In a traditional Viennese tavern called “Stadtwirt” we will celebrate a marvellous evening with typical Austrian wine and culinary specialties. You will enjoy this homely atmosphere having a relaxing time with your shock wave research friends!

The tavern is located in a 5 min. walking distance to the hotel.

www.stadtwirt.at

Brunch, January 24:

If you can't stop discussing shock wave research we will arrange a little brunch at a typical Viennese Café on Sunday morning before everyone has to take his flight back home. This event will be on your own costs.

