Dear colleagues,

Shock wave treatment is a fast emerging field with exciting new results every day. Continuously researchers identify new indications. However, the mechanism how the physical stimulus of SWT is translated into a biological effect remains largely unknown. New pieces will be added to the puzzle at the 2nd ISMST Basic Research Meeting!

We are looking forward to meeting you in Innsbruck!

J. Holfeld, M. Grimm, R. Mittermayr, W. Schaden

Topics

Mechanotransduction
Gene Expression
Systemic Effects
Tissue Engineering
In-Vitro Experiments
Epigenetics
Anti-inflammatory Effects
Stem/ Progenitor Cells
Cell Recruitment

Deadlines

Abstract Submission closed
Registration December 31, 2011
Hotel at special rate December 31, 2011

www.ismst.com
2nd ISMST Basic Research Meeting

Friday, January 27

09:00 Opening words

Keynote: Mechanotransduction – Wilhelm Bloch (Germany)
Chairmen: W. Schaden (Austria), M. Grimm (Austria)
Discussion

Investigation of the correlation between shockwave induced mechanical stress and biological response
Kristin Dietz-Laursonn, A. Houben, R. Beckmann, T. Pufe,
K. Radermacher, M. de la Fuente (Germany)

Dose dependency of low energy vs. high energy ESWT on cutaneous microcirculation
Karsten Knobloch, R. Kraemer, V. Forstmeier, P.M. Vogt (Germany)

Coffee break

Keynote: Gene expression – Ching-Jen Wang (Taiwan)
Chairmen: S. Russo (Italy), V. Auersperg (Austria)
Discussion

Early angiogenic response to unfocused shock waves in a three dimensional model of human microvascular endothelial cells
Maria-Cristina d’Agostino, P. Romeo, L. de Girolamo, F. Siziano,
C. Bonora, E. Tibalt, S. Respizzi, V. Sansone (Italy)

Lunch

Scientific Program

Friday, January 27

Keynote: Angiogenesis vs. Vasculogenesis – Johannes Holfeld (Austria)
Chairmen: M.C. d’Agostino (Italy), M. Gleitz (Luxembourg)
Discussion

Shock waves are safe for cardiac tissue and stimulate its regeneration by activation of cardiac primitive cells
Sergio Russo, F. Di Meglio, S. Montagnani (Italy)

ESWT effects functional improvement by recruitment of endothelial progenitors in chronic hind limb ischemia in rats
Can Tepeköylü, F.-S. Wang, W. Schaden, M. Grimm, C.-J. Wang,
J. Holfeld (Austria/Taiwan)

Coffee break

Chairmen: R. Mittermayr (Austria), J. Holfeld (Austria)
Extracellular ATP release – a potential benefit in shock wave Treatment
Anna M. Weihs, W.G. Junger, W. Schaden, H.H. Sitte, D. Rünzler (Austria/ USA)

Accumulated total energy – an indicator to compare electro-hydraulic and piezoelectric devices?
Kerstin Neumann, H.-J. Duchstein (Germany)

19:30 Festive dinner at The Penz Hotel
2nd ISMST Basic Research Meeting

Saturday, January 28

09:00 Keynote: Epigenetics – tba
Chairmen: H. Weinans (The Netherlands), V. Antonic (USA)
Discussion

Nanoparticles loaded with meso-tetrakis (4-sulfonatophenyl) porphyrin enhance efficacy of sono dynamic therapy in an in vitro cancer model
Loredana Serpe, R. Canaparò, F. Foglietta, M. Ballestri, G. Sotgiu, A. Guerrini, G. Varchi, L. Berta, R. Fraira (Italy)

ESWT alone has no impact on cancer growth in a mouse model
Gerd Silberhumer, W. Schaden, J. Holfeld (Austria)

Coffee break

Keynote: Systemic effects – Rainer Mittermayr (Austria)
Chairmen: C.-J. Wang (Taiwan), W. Bloch (Germany)
Discussion

Remote effects of extracorporeal shock wave therapy on cutaneous microcirculation
Robert Kraemer, V. Forstmeier, P.M. Vogt, K. Knobloch (Germany)

Shockwave mediated non viral gene transfer in vitro and in vivo
Matthias Layr, G. Feichtinger, J. Hartinger, A. Hofmann, S. Pfeifer, H. Redl, R. Mittermayr (Austria)

Lunch

Scientific Program

Saturday, January 28

Keynote: Anti-inflammatory effects – Alexander Stojadinovic (USA)
Chairmen: S. Montagnani (Italy), J. Holfeld (Austria)
Discussion

Coffee break

Chairmen: C. Leal (Colombia), R. Thiele (Germany)
Extracorporeal Shock Waves modulate osteogenic differentiation of human mesenchymal stem cells
Roberto Frairia, M.G. Catalano, F. Marano, O. Bosco, L. Berta (Italy)

Unfocused extracorporeal shock waves in Osteoporosis
Olav P. van der Jagt, J.H. Waarsing, H. Jahr, H. Weinans (The Netherlands)

19:00 Social evening
Venue and Accommodation

The Penz Hotel
Adolf-Pichler-Platz 3
A-6020 Innsbruck
T: +43 512 57 56 57 – 0
F: +43 512 57 56 57 – 9
E: office@thepenz.com
W: www.thepenz.com

Special room rates for Basic Research Meeting participants are guaranteed till December 31, 2011. Just state “ISMST” in your reservation. The room rate is 130,- Euro including breakfast.

The 2nd ISMST Basic Research Meeting takes place at a lecture hall of Innsbruck Medical University, which is in walking distance to the hotel.

Social Program

Festive Dinner, Jan 27, 20:00
The Penz Hotel

Our dinner will be held at the excellent restaurant of The Penz Hotel. Enjoy the fabulous view on the Austrian Alps and the beautiful city of Innsbruck.

Social Evening, Jan 28, 20:00
Tyrolean Alpin Cabin “Buzihütte”

You will experience a historical Tyrolean alpin cabin called “Buzihütte” with traditional food from western Austria and a very warm and homely atmosphere. This evening will be on your own expenses. We kindly ask you to pre-register at our registration desk on-site.

Travel Information

Innsbruck Airport (INN) is located approximately 5 km from the city. Airport transfer is most convenient by taxi which is about 10 minutes to the hotel at a price of approximately Eur 10,-.
Registration

Please send this form until December 31, 2011, to:

Innsbruck Medical University
Department of Cardiac Surgery
Anichstraße 35
6020 Innsbruck, Austria
T: +43 512 504 80800
F: +43 512 504 22528
E: johannes.holfeld@uki.at

Participant:

Full Name, Title:

Institution:

Address:

Postal Code, City:

Phone: Email:

Meeting Fee

Physicians, Scientists: Eur 250,-
Industry Members: Eur 450,-

Meeting fee includes coffee breaks, lunch and festive dinner.
Methods of payment (in Euro): Cash or credit card, both on-site at the registration desk!