

# 2<sup>nd</sup> JOINT MEETING

February 27 - March 6, 2010



Zürs, Austria

**Topic 2010**  
Aortic Surgery and  
Endovascular  
Interventions

Associated topic: Complications

Selected free presentations

Basics

Innovations

Results

Surgical techniques



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Dear Colleagues,

Cardiac surgery has established itself as a very well developed surgical specialty with excellent patient outcome. On the other hand our profession is increasingly challenged and influenced by rapid achievements of interventional cardiology. It is our task and commitment for the future to promote further development of established techniques and integrate new technologies in cardiac surgical practice. The role of conferences is of paramount importance to disseminate the new knowledge, stimulate discussion and allow exchange with the medical device and pharmaceutical industry.

**We formally invite you to our 2<sup>nd</sup> Joint Meeting of the 28<sup>th</sup> Cardiovascular Surgical Symposium and the 5<sup>th</sup> Cardiac Surgery Update and Progress Meeting (CSUP) in Zürs.**

The meeting will take place from February 27 to March 6, 2010 at the **Hotel and Conference venue Robinson Select Alpenrose Zürs.**

It is also an aim of our meeting to enable and encourage an exchange between cardiac surgery and cardiology. There are many areas of mutual interest. There are the areas of revascularization, valve replacement and now even valve repair, as well as electrophysiology and imaging, which strive to find a new definition and new roles.

Special consideration including particular education of young residents will be offered by the **Interactive Cardiovascular Course with wetlab** facilities.

The main topic in 2010 will be **AORTIC SURGERY AND ENDOVASCULAR INTERVENTIONS**. It should provide leading edge information on current state of the art practice as well as on innovation and research. Each day is dedicated to a specific subcategory of the main topic: **Basics – Surgical Techniques – Results – Innovations – Associated Topics**. Presentations of distinguished invited speakers as well as **free presentations and posters** will be given. Thus we would like to encourage clinicians and scientists to submit abstracts dealing with the treatment of aortic diseases as well as exciting topics in field of cardiovascular surgery and interventional approaches.

This will be conducted in a very relaxed and special atmosphere of the Arlberg so that all participants can openly exchange opinions and experiences and will contribute to a very attractive joint meeting.

Martin Grabenwöger

Günther Laufer

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**GENERAL INFORMATION**

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- Congress Venue**                      Robinson Select Alpenrose Zürs, 6763 Zürs am Arlberg, Austria
- Course Directors**                    **Martin Grabenwöger**  
Department of Cardiovascular Surgery, Hospital Hietzing, Vienna, Austria  
**Günther Laufer**  
Department of Cardiac Surgery, General Hospital Vienna, Vienna, Austria
- Honorary Presidents**              **Manfred Deutsch, Ernst Wolner**
- Scientific Secretariat**              **Martin Czerny**  
Department of Cardiac Surgery, General Hospital Vienna  
Währinger Gürtel 18-20, 1090 Vienna, Austria  
E-mail: martin.czerny@meduniwien.ac.at
- Michael Gorlitzer**  
Department of Cardiovascular Surgery, Hospital Hietzing  
Wolkersbergenstraße 1, 1130 Vienna, Austria  
E-mail: michael.gorlitzer@wienkav.at
- Congress Organizer**                **Karl Landsteiner Institute of Cardiovascular Surgical Research**  
**Johann Meinhart**  
Wolkersbergenstraße 1, 1130 Vienna, Austria  
E-mail: johann.meinhart@wienkav.at
- Congress Secretariat**                 **E&E PCO**  
Nobilegasse 23-25, 1150 Vienna, Austria, E-mail: office@ee-pco.com  
Phone: +43 (1) 867 49 44-0, Fax: +43 (1) 867 49 44-9
- Industrial Exhibition**                The industrial exhibition takes place at Robinson Select Alpenrose Zürs
- Registration Desk**                     **E&E PCO** c/o Robinson Select Alpenrose Zürs, 6763 Zürs am Arlberg  
The congress documents will be handed out to the registered participants  
and on-site registration will be possible during the office hours.  
Saturday, February 27, 13.00 – 19.30  
Sunday, February 28 – Friday, March 5, 8.00 – 11.00, 15.00 – 19.00
- Workshop**                                **Interactive cardiovascular training for residents**  
**Saturday, February 27 – Sunday, February 28, 2010**  
Including wetlab training:  
Every participant has the possibility for training on a model to perform  
coronary bypass anastomosis and aortic valve. The workshop has been  
granted 10 dfp credits for heart surgery.  
Course directors:                        M. Grabenwöger, M. Deutsch, E. Wolner  
Organizers:                                M. Gorlitzer, S. Folkmann  
Course registration fee:                € 50,- (payable on-site)

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#### POSTER VIEWING

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Giant right atrial diverticulum in 50-years old woman

I. Borisov, V. Dalinin (Moscow)

Coronary endarterectomy - our protocol and results

S. Nair, S. Agrawal, P. Srivastava, G.K. Mathew, T. Varghese, A.M. Varkey (Kerala)

Midterm follow up of the Sorin Freedom solo stentless aortic prosthesis

M. Thalmann, N. Taheri, K. Kornigg, F. Veit, F. Waldenberger, M. Grolitzer, M. Grabenwöger (Vienna)

Tight glycemc control in patients undergoing open heart surgery

S. Nair, S. Agrawal, P. Srivastava, G.K. Mathew, T. Varghese, A.M. Varkey (Kerala)

Secondary surgical interventions after endovascular stent-graft placement due to thoracic aortic disease

J. Dumfarth, M.M. Nicolas, J. Holfeld, R. Gottardi, A. Juraszek, T. Dziondzio, M. Funovics, M. Schoder, D. Zimpfer, M. Grimm, M. Czerny (Vienna)

Degenerated bioprostheses in aortic and mitral position

M. Seiffert, O. Franzen, L. Conradi, S. Baldus, J. Schirmer, T. Meinertz, H. Reichenspurner, H. Treede (Hamburg)

1-year follow-up after heart transplantation, including 2 cases with H1N1 infection

Y. Ostrovski (Minsk)

Bypass technique – a single surgeon, single centre, age matched control comparison

M.J. Bennett, P.M. Robbins, M.J. Dalrymple-Hay, C. Rajakaruna, C.T. Lloyd (Plymouth)

Apicoaortic conduit - alternative solution for high risk patients with aortic stenosis - case report and discussion of method

R. Lipovec (Maribor)

Clopidogrel Plavix as an alternative therapy after biological valve replacement

P. Poslusny, S. Folkmann, M.L. Harrer, G. Weiss, B. Heine, W. Polzer, M. Grabenwoeger (Vienna)

Minimally invasive mitral valve repair through right anterolateral mini-thoracotomy is safe and feasible in patients of advanced age

H. Treede, C. Detter, T. Deuse T., L. Conradi L., J. Brickwedel, D. Böhm, H. Reichenspurner (Hamburg)

Medium term outcome of reductive kay anuloplasty of the tricuspid valve in association with mitral valve surgery

P. Nardi, F. Nicolò, A. Pellegrino, S. Grego, J. Zeitani, P. Polisca, A. Scafuri, L. Chiariello (Rome)

Propensity matching confirms that transcatheter aortic valve implantation (TAVI) reduces morbidity and hospital stay for high risk patients requiring aortic valve replacement

P. Sastry, M. Field, J.D. Mills, R.H. Stables, O. Al-Rawi, T. Ridgway, M. Kuduvali, A.Y. Oo (Liverpool)

The Perimount Magna Aortic bioprosthesis in patients with small aortic roots. Single center experience in 128 patients.

R. Moidl, R. Borni, G. Weiss, S. Folkmann, M. Grolitzer, J. Meinhart, M. Grabenwoeger (Vienna)

SealFoam™, a new topical hemostat for bleeding control in surgery

H. Mair; A. Schütz, (Vogtareuth)

Poststenotic aortic aneurysm visualized using flow related magnetic resonance, case report

E. Beran, G. Reiter, H. Mächler, U. Reiter, R. Rienmüller, K.H. Tscheliessnigg (Graz)

Treatment of aortic Stanford dissections type a with the frozen elephant trunk technique - fate of the false lumen

G. Weiss, M. Grolitzer, S. Folkmann, M.L. Harrer, M. Grabenwoeger (Vienna)

Off-pump treatment of the aortic arch

G. Zoffoli, D. Mangino, A. Terrini, A. Asta, A. Venturini, C. Zanchettin, E. Polesel (Venice)

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#### SCIENTIFIC FACULTY

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#### Scientific Faculty – International

Franz Wolfgang **Amann** – Zurich, Switzerland  
Friedhelm **Beyersdorf** – Freiburg, Germany  
Michael Andrew **Borger** – Leipzig, Germany  
Thierry **Carrel** – Berne, Switzerland  
James L. **Cox** – La Grange, USA  
Theodor **Fischlein** – Nuremberg, Germany  
Marian **Gaspar** – Timisoara, Romania  
Christian **Hagl** – Hanover, Germany  
Wolfgang **Harringer** – Braunschweig, Germany  
Heinz **Jakob** – Essen, Germany  
Klaus **Kallenbach** – Heidelberg, Germany  
Philippe H. **Kolh** – Liege, Belgium  
Francesco **Maisano** – Milano, Italy  
Alexander R. **Marmureanu** – Los Angeles, USA  
Anton **Moritz** – Frankfurt/Main, Germany  
Davide **Pacini** – Bologna, Italy  
Jan **Pirk** – Prague, Czech Republic  
Hermann **Reichenspurner** – Hamburg, Germany  
Alberto **Repossini** – Brescia, Italy  
Marc **Schepens** – Brugge, Belgium  
Paul **Sergeant** – Leuven, Belgium  
Paul **Vogt** – Zurich, Switzerland  
Ernst **Weigang** – Mainz, Germany  
Gerhard **Wimmer-Greinecker** – Bad Bevensen, Germany  
Stephan **Windecker** – Berne, Switzerland

#### Scientific Faculty – National

Martin **Czerny** – Vienna  
Manfred **Deutsch** – Vienna  
Sandra **Folkmann** – Vienna  
Martin **Funovics** – Vienna  
Georg **Gaul** – Vienna  
Michael **Gorlitzer** – Vienna  
Martin **Grabenwöger** – Vienna  
Michael **Grimm** – Vienna  
Kurt **Huber** – Vienna  
Ronald **Karnik** – Vienna  
Alfred **Kocher** – Vienna  
Johannes **Lammer** – Vienna  
Günther **Laufer** – Vienna  
Gerard **Mertikian** – Vienna  
Johannes **Mlczoch** – Vienna  
Ludwig **Müller** – Innsbruck  
Peter **Oberwalder** – Graz  
Peter **Probst** – Vienna  
Thomas **Rand** – Vienna  
Raphael **Rosenhek** – Vienna  
Roland **Schistek** – Innsbruck  
Christian **Schwarz** – Wels  
Sylvia **Schwarz** – Vienna  
Gottfried **Sodeck** – Vienna  
Ferdinand **Waldenberger** – Vienna  
Wolfgang **Wandschneider** – Klagenfurt  
Ernst **Wolner** – Vienna



The Austrian Medical Chamber has granted  
53 certified CME credits for heart surgery to the congress.



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**SUNDAY, February 28, 2010 – SCIENTIFIC PROGRAM**

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**15.15 Opening of the Symposium**

M. Deutsch (Vienna), M. Grabenwöger (Vienna), G. Laufer (Vienna)

**15.30 – 19.00 AFTERNOON SESSION**

**15.30 – 17.00 Session A: Imaging and Indication**

Chair: G. Gaul (Vienna), J. Lammer (Vienna)

- History of aortic surgery E. Wolner (Vienna)
- Imaging modalities for aortic disease J. Lammer (Vienna)
- Bleeding control in cardiac surgery F. Maisano (Milano)
- Connective tissue disorders T. Carrel (Berne)

17.00 – 17.30 Break

**17.30 – 19.00 Session B: Imaging and Indication**

Chair: J. Mlczoch (Vienna), S. Schwarz (Vienna)

- Antihypertensive therapy for patients with aneurysms R. Karnik (Vienna)
- Biomarkers G. Sodeck (Vienna)
- Indication for stentless aortic valve replacement A. Repossini (Brescia)
- Five years experience with Sorin Freedom Solo:  
Clinical results and follow up G. Esposito (Lecce)
- X-ray dose, blood loss, dose of radiocontrast agent and  
renal function in a series of 95 consecutive transcatheter  
aortic valve implantation patients R. Hödl (Graz)

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#### MONDAY, March 1, 2010 – SCIENTIFIC PROGRAM

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#### 8.15 – 11.00 Free Presentations

Chair: M. Gorlitzer (Vienna), A. Moritz (Frankfurt/Main)

- Relation of percutaneous coronary intervention and coronary artery bypass grafting based upon 2 years evaluation of the SYNTAX clinical trial F. Tarr (Budapest)
- MRI derived 4-dimensional blood flow pattern in the left ventricle H. Mächler (Graz)
- Role of intraoperative TEE in open heart surgery S. Nair (Kerala)
- A minimized perfusion circuit RocSafe RX - Is there a horizon? J. Skorpil (Pilsen)
- Is mini CPB really less harmful than the conventional CPB? The results of immunological study V. Lonsky (Olomouz)
- Endovascular treatment in acute traumatic thoracic aortic lesions J. Dumfarth (Vienna)
- Minimized circuits for aortic valve and aortic root surgery in the elderly patients I. Kutschka (Hanover)
- Delirium after coronary artery bypass grafting A. Kiryaev (Moscow)

#### 11.00 – 12.30 Poster Viewing

12.30 – 14.00 Break

#### 14.00 – 15.30 Residents Meeting

Chair: S. Folkmann (Vienna)

#### 15.30 – 19.00 AFTERNOON SESSION

#### 15.30 – 17.00 Session A: Aortic Root and Ascending Aorta

Chair: T. Fischlein (Nuremberg), D. Pacini (Bologna)

- Valve sparing aortic root repair: techniques and results W. Harringer (Braunschweig)
- Composite graft implantation: mechanical and biological solutions D. Pacini (Bologna)
- Strategy in bicuspid aortic valves w/o aortic dilatation A. Moritz (Frankfurt/Main)
- Residual type A aortic dissection: endovascular approach with Djumbodis system G. Iannelli (Napoli)
- Limited access in minimal invasive aortic surgery G. Wimmer-Greinecker (Bad Bevensen)

17.00 – 17.30 Break

#### 17.30 – 19.00 Session B: Dissection Type A

Chair: W. Harringer (Braunschweig), A. Repposini (Brescia)

- Different sites of cannulation in type A aortic dissection F. Waldenberger (Vienna)
- Evidence in the surgical treatment of acute type A aortic dissection F. Beyersdorf (Freiburg)
- New operative strategies in aortic dissection H. Reichenspurner (Hamburg)
- Aortic root replacement in acute type A dissection K. Kallenbach (Heidelberg)

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#### TUESDAY, March 2, 2010 – SCIENTIFIC PROGRAM

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#### 8.15 – 11.00 Free Presentations

Chair: R. Schistek (Innsbruck), W. Wandschneider (Klagenfurt)

- Transapical aortic valve replacement is as safe as transfemoral aortic valve replacement in high risk patients A. Parla (Belgium)
- Ten years follow up after aortic valve replacement in octogenarians with severe aortic stenosis J. Llosa (Spain)
- The use of Thrombelastography® and PlateletMapping® in the management of a patient with a platelet aggregation defect undergoing cardiac surgery P. Robbins (Plymouth)
- Aortic valve replacement with miniaturized extracorporeal circulation or standard feasibility of mitral valve repair in marfan patients with severe mitral valve Regurgitation H. Treede (Hamburg)
- A modern concept for aortic valve surgery in patients with severe liver failures J. Kutschka (Hanover)
- Open aortic valve replacement after previous coronary artery bypass grafting: lower operative risk than estimated? N. Khaladj (Hanover)
- One year single center experience with transcatheter aortic valve implantation R. Busund (Tromsø)
- Thorax support vest leads to improved outcome after median sternotomy S. Lehmann (Leipzig)

#### 11.00 – 12.30 Poster Viewing

12.30 – 14.00 Break

#### 14.00 – 15.30 Parallel Workshops: Quality Management in Cardiac Surgery (Part I)

#### 15.30 – 19.00 AFTERNOON SESSION

#### 15.30 – 17.00 Session A: Aortic Arch Treatment

Chair: T. Carrel (Berne), M. Czerny (Vienna)

- Perforation of the aortic arch and retrograde Type A dissection after endovascular stentgraft placement H. Mächler (Graz)
- Conventional versus hybrid arch repair:  
Pro Conventional: M. Grabenwöger (Vienna)  
Pro Hybrid: M. Czerny (Vienna)
- Panel Discussion

17.00 – 17.30 Break

#### 17.30 – 19.00 Session B: Interdisciplinary Discussion: Percutaneous Aortic Valves: Pro and Cons

Chair: K. Huber (Vienna), E. Wolner (Vienna)

- Indication for interventional aortic valve replacement:  
The cardiologist's view S. Windecker (Berne)
- The surgeon's view G. Wimmer-Greinecker (Bad Bevensen)
- Transapical aortic valve replacement T. Fischlein (Nuremberg)
- Short-term results of transapical aortic valve implantation J. Demmer (Linz)
- Development and state of the art 2010:  
Transfemoral transcatheter implantation of aortic valves:  
2 years experience F. W. Amann (Zurich)

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---

#### WEDNESDAY, March 3, 2010 – SCIENTIFIC PROGRAM

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#### 8.15 – 11.00 Free Presentations

Chair: R. Moidl (Vienna), P. Probst (Vienna)

- Transradial percutaneous coronary intervention: consummation and safety in Pakistani population A. Bilawal (Tabba)
- Role of endoscopic vein harvesting in reducing post-operative morbidity in patients undergoing CABG S. Nair (Kerala)
- Endoscopic vein harvesting - lessons from the Derriford experience M. Dalrymple-Hay (Plymouth)
- Completely endoscopic double vessel coronary artery bypass grafting: ready for broader application? N. Bonaros (Innsbruck)
- Mitral valve repair for ischemic or degenerative mitral insufficiency in patients with coronary artery disease: comparison of late outcome and risk factors analysis P. Nardi (Rome)
- Percutaneous mitral valve repair - a bail-out strategy for patients with hemodynamically significant mitral regurgitation following cardiac surgery M. Seiffert (Hamburg)
- Sleep apnea and cardiac surgery: perioperative assessment; overview and updates C. Salanson-Lajos (Chicago)
- Port-access mitral valve surgery; the first 221 cases, how steep is the learning curve T.L. de Kroon (Bilthoven)

#### 11.00 – 12.30 Poster Viewing

12.30 – 14.00 Break

#### 14.00 – 15.30 Parallel Workshops: European Registries of Aortic Aneurysm and Dissections

#### 15.30 – 19.00 AFTERNOON SESSION

#### 15.30 – 17.00 Session A: Descending Aortic Treatment

Chair: H. Jakob (Essen), H. Reichenspurner (Hamburg)

- Cerebral protection and perfusion techniques C. Hagl (Hanover)
- Indication and results of endovascular treatment T. Rand (Vienna)
- Should an acute type B dissection always be treated? M. Funovics (Vienna)
- Angioscopic findings H. Jakob (Essen)
- Mechanism of complicated and uncomplicated type B dissections M. Grimm (Vienna)

17.00 – 17.30 Break

#### 17.30 – 19.00 Session B: Registries

Chair: R. Karnik (Vienna), P. Sergeant (Leuven)

- Can registries replace prospective, randomized studies? P. Sergeant (Leuven)
- The value of the IRAD registry T. Carrel (Berne)
- Development of European Aortic Registry (EURADA) E. Weigang (Mainz)
- Guidelines of coronary artery bypass grafting P. Kolh (Liege)

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---

#### THURSDAY, March 4, 2010 – SCIENTIFIC PROGRAM

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#### 8.15 – 11.00 Free Presentations

Chair: L. Müller (Innsbruck), C. Schwarz (Wels)

- Is increased body surface area a risk for minimal extracorporeal bypass? C. Lloyd (Plymouth)
- Root replacement: BioValsalva valved conduit graft versus handmade Perimount Magna/ Valsalva tube graft P. Sastry (Liverpool)
- Valve sparing vs valve replacing aortic root replacement in marfan patients A. Bernhardt (Hamburg)
- Emergency repair of acute type A aortic dissection in the elderly H. Baumer (Klagenfurt)
- Impact of valve prosthetic-patient mismatch syndrome on left ventricle mass regression in patients with pure aortic valve stenosis V.S. Kucherenko (Moscow)
- Early results of the open stent-graft placement for aortic aneurysm and dissection M. Nishimoto (Osaka)
- Dynamic sinotubular remodeling M. Dzsinih (Budapest)
- Mid-term follow-up after aortic wall sparing root and valve replacement O. Friedrich (Oxford)

#### 11.00 – 12.30 Poster Viewing

12.30 – 14.00 Break

#### 14.00 – 15.30 Parallel Workshops: Quality Management in Cardiac Surgery (Part II)

#### 15.30 – 19.00 AFTERNOON SESSION

#### 15.30 – 17.00 Session A: Thoracoabdominal Aneurysms

Chair: M. Borger (Leipzig), M. Schepens (Brugge)

- Strategies to prevent spinal cord damage in thoracoabdominal aortic surgery M. Schepens (Brugge)
- Role of hybrid thoracoabdominal repair E. Weigang (Mainz)
- Total endovascular TAAA repair M. Funovics (Vienna)
- Role of Echocardiography in aneurysms and dissections R. Rosenhek (Vienna)

17.00 – 17.30 Break

#### 17.30 – 19.00 Session B: Complications and Bail out Strategies

Chair: M. Gaspar (Timisoara), P. Vogt (Zurich)

- Postthorax prevents sternal dehiscence and instability: preliminary results of a prospective randomized multicenter trial S. Pfeiffer (Nuremberg)
- Graft and device infections P. Vogt (Zurich)
- Aortic root repair following type A dissection M. Grimm (Vienna)
- Surgical repair after aortic stentgraft implantation M. Borger (Leipzig)
- Strategies in TEVAR G. Mertikian (Vienna)

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---

#### FRIDAY, March 5, 2010 – SCIENTIFIC PROGRAM

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#### 8.15 – 11.00 Free Presentations

Chair: M. Czerny (Vienna), P. Oberwalder (Graz)

- DESWT- Safety of Myocardial Regeneration by direct epicardial shock wave therapy in combination with coronary artery bypass grafting D. Zimpfer (Vienna)
- First experience of autologous umbilical cord blood using in neonatal cardiac surgery I. Yemets (Kiev)
- Diastolic heart failure: trans-apical implantation of a diastolic assist device A. Elami (Jerusalem)
- Influence of biocompatible coated ECC tubing set on fibrinogen and D-dimers level using TEG I. Flügger (Olomouc)
- Clinical platination: Insight into surgical and spatial anatomy of the aortic root and related structures S. Marchenko (St. Petersburg)
- Clinical governance methodology and database analysis in evaluating the appropriate use of stents S. Meriglioli (Rome)
- Early failure of decellularized pulmonary valve conduits- a word of caution! A. Ruffer (Erlangen)
- Influence of liquid nitrogen in the cryopreserved allograft tissues during the storage R. Jashari (Wemmel)

#### 11.00 – 12.30 Poster Viewing

12.30 – 14.00 Break

#### 14.00 – 15.30 Parallel Workshops: Tissue Engineering and Stem Cell Therapy

Chair: J. Meinhart (Vienna)

#### 15.30 – 19.00 AFTERNOON SESSION

#### 15.30 – 17.00 Session A: Surgical Specialities

Chair: C. Hagl (Hanover), J. Pirk (Prague)

- Development of surgical atrial fibrillation therapy J. Cox (La Grange)
- To MAZE or not to MAZE? Results from long-term follow-up after MAZE surgery using cryoablation P. Olexa (Kosice)
- Current approaches to aortic aneurysms and dissections A. Marmureanu (Los Angeles)
- Hybrid approach on Type A acute aortic dissection: the Lupiae technique G. Esposito (Lecce)
- Chronic Type B dissections should be operated P. Oberwalder (Graz)

17.00 – 17.30 Break

#### 17.30 – 19.00 Session B: Experimental Forum

Chair: M. Grabenwöger (Vienna), G. Laufer (Vienna)

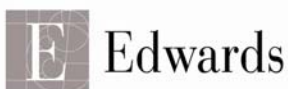
- Deep versus moderate hypothermia in circulatory arrest C. Hagl (Hanover)
- Program of endovascular surgery at IKEM J. Pirk (Prague)
- Sheet based tissue engineering for aneurysm repair A. Kocher (Vienna)
- Experimental aspects of acute aortic dissections M. Czerny (Vienna)

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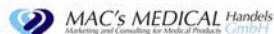
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