

FINAL PROGRAM

# 2<sup>nd</sup> International Meeting on Aortic Diseases

New insights into an old problem

Course Director:

Natzi SAKALIHASAN

Co-Directors:

Jean-Olivier DEFRAIGNE

Helena KUIVANIEMI

Jean-Baptiste MICHEL



September 30  
& October 1-2

2010

Congress center  
Liège, Belgium

[www.chuliege-ima.be](http://www.chuliege-ima.be)

ACCREDITATION



18 credits

CHU  
de Liège

# 2<sup>nd</sup> International Meeting on Aortic Diseases

New insights into an old problem

September 30 & October 1-2 2010  
Congress center, Liège, Belgium

# W

elcome to IMAD 2010.

For its 2<sup>nd</sup> edition, the congress is focusing on the new pathophysiological concepts in aortic valves, aortic dissections and aortic aneurysmal remodelling, targeting cells and molecules, linking genetics with aneurysmal phenotypes, leading to the development of new tools for diagnosis, prognosis and therapeutics in aortic valve diseases, aneurysmal and occlusive aortic diseases as well as aortic dissections.

We invite you to join the symposium and hands-on workshop organized by the industry after lunch.

We are proud to welcome once more the abstracts and posters competitions and to give a unique opportunity to young fellows to present their experience to an international audience.

Finally, do not miss our official Gala dinner on Friday night at the Salons du Palais Provincial and the opportunity to meet the Faculty in a relaxed atmosphere in a historical place.

Once again, welcome to Liège.

**Natzi Sakalihasan**

## Under the patronage of:

- University of Liège: Bernard Rentier, Rector
- Cardiovascular Surgery Department of CHU of Liège: Pol Louis, CEO
- Province of Liège: Georges Pire, Provincial Deputy
- FAD (Fighting Aneurysmal Disease)
- APF (Aneurysmal Pathology Foundation)



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Ube, Japan

# T hursday September 30

07.30 Welcoming coffee

08.00 Welcome address

Jean-Olivier Defraigne, Liège, Belgium

Helena Kuivaniemi, Danville, USA

## GENETICS AND GENOMICS OF TAAD AND AAA

Moderators:

Helena Kuivaniemi & Gerard Tromp

08.10 Genetic basis of syndromic TAAD

Bart Loeys, Gent, Belgium

08.30 Genetic basis of thoracic aortic aneurysms and aortic dissections: gene-based management

Dianna Milewicz, Houston, USA

08.50 Gene expression profiles associated with TAA in patients with bicuspid aortic valve

Per Eriksson, Stockholm, Sweden

09.10 3'-UTR and coding-sequence miR-29 binding sites repress elastin gene expression in postnatal aortic development

Peter N. Robinson, Berlin, Germany

### Short presentations

09.30 The role of complement cascade in abdominal aortic aneurysm, Irene Hinterseher

09.35 Genotype-phenotype correlation in 104 patients with vascular Ehlers-Danlos syndrome in a French cohort: evidence for a mild form of the disease, Laurence Bal

09.40 High resolution melting analysis to detect rare genetic variants associated with abdominal aortic aneurysm, Seamus Harrison

09.50 Coffee break

10.20 Genome wide study on AAA  
Solveig Gretarsdottir, Reykjavik, Iceland

10.40 The aneurysm consortium AAA GWAS  
Matthew Bown, Leicester, United Kingdom

11.00 Assessing the potential value of tissue and circulating markers of abdominal aortic aneurysm  
Jonathan Golledge, Townsville, Australia

11.20 Genetic and genomic studies of AAA  
David Carey, Pennsylvania, USA

11.40 Distinct defects in collagen micro architecture underlie vessel wall failure in AAA and aneurysms in Marfan syndrome  
Jan Lindeman, Leiden, The Netherlands

12.00 Differential regulation of Lamin A/C in AAA - a putative new target for therapy  
Gillian Cockerill, London, United Kingdom

### Short presentations

12.20 Relationship between osteopontin plasma levels and ascending aortic dilation, Stefano Bevilacqua

12.25 Altered microRNAs in bicuspid aortic valve, Salaheldien Ali Mohamed

12.30 Lunch

13.30 **Industry Symposium**   
A new medical approach to treat AAA  
Moderator: Jesper Swedenborg

13.30 Introduction, Jesper Swedenborg

13.35 Pharmacological approaches in AAA, Johan Raud

13.45 The role of mast cells in AAA, Jesper Swedenborg

14.05 A clinical study of a mast cell inhibitor in AAA, Carl-Johan Dalsgaard

14.15 Questions & closing remarks, Jesper Swedenborg

### 13.30 Posters presentations

Moderators:

Betty Nusgens & Per Eriksson

- Cystatin C correlates with short-term abdominal aortic aneurysm growth, Melina Vega de Céniga



- Apoptotic tendency and genomic abnormalities of smooth muscle cells in thoracic aortic aneurysms, **Ceyda Acilan**
- C-reactive protein (CRP) and aortic aneurysm: real-time PCR analysis, **Matteo Tozzi**
- Apoptosis and elevation of matrix-metalloproteinases in ascending aneurysms with a bicuspid aortic valve, **Salaheldien Ali Mohamed**
- Expression of Matrix metalloproteinase-2, -9 and Collagen I, III in ascending thoracic aortic aneurysms, **Kemal Baysal**
- Discovery of a novel circulating biomarker in patients with abdominal aortic aneurysm, **Jonas Wallinder**

## PHYSIOPATHOLOGY OF AORTIC DISEASES

### Moderators:

Gillian Cockerill & Jean-Baptiste Michel

- 14.30 Physiopathology of ascending aorta with bicuspid and tricuspid aortic valve  
**Alessandro Della Corte, Naples, Italy**
- 14.45 Involvement of the intra luminal thrombus in aneurysmal acceleration towards rupture  
**Jean-Baptiste Michel, Paris, France**
- 15.00 Blood tests for thoracic aortic aneurysm  
**John Elefteriades, New Haven, USA**
- 15.15 Novel biomarkers of AAA evolution  
**Jose Luis Martin-Ventura, Madrid, Spain**
- 15.30 2 D electrophoresis based proteomic investigation of serum in AAA-patients  
**Sigita Urbonavicius, Viborg, Denmark**
- 15.45 Molecular pathogenesis of AAA  
**Koichi Yoshimura, Ube, Japan**

## Short presentations

- 16.00 Impaired splicing of fibronectin is associated with thoracic aortic aneurysm formation in patients with bicuspid aortic valve, **Valentina Paloschi**
- 16.05 Fibrin architecture is altered in abdominal aortic aneurysms and correlates with aneurysm size, **Robert A. S. Ariens**
- 16.10 Uptake of 18-fluorodeoxyglucose (FDG) as detected by Positron Emission Tomography (PET) is correlated to an increased expression of proteolytic enzymes in the wall of abdominal aortic aneurysms (AAA), **Audrey Courtois**
- 16.15 Discussion
- 16.30 Coffee break

## MANAGEMENT OF THORACIC AORTIC DISEASES – PART ONE

### SESSION I

### ASCENDING AORTA AND ARCH

#### Moderators:

John Elefteriades & Guido Van Nooten

- 17.00 Place of the endovascular treatment in type A dissection  
**Stephan Haulon, Lille, France**
- 17.15 EVAR in the aortic arch  
**Tilo Kölbel, Hamburg, Germany**
- 17.30 Outcomes of the endovascular management of aortic arch aneurysm  
**Matthew Thompson, London, United Kingdom**
- 17.45 Bovine aortic arch: not a benign variant  
**John Elefteriades, New Haven, USA**
- 18.00 Management of complicated type B dissection  
**Christoph Nienaber, Rostock, Germany**
- 18.15 Discussion

# Friday October 1

07.30 Welcoming coffee

## MANAGEMENT OF THORACIC AORTIC DISEASES

### PART TWO – SESSION II

#### MANAGEMENT OF THORACIC AORTIC DISEASES

Moderators:

Francine Blaffart & Christophe Decoene

- 08.00 Medical management of type A dissection  
**John Elefteriades, New Haven, USA**
- 08.15 Contribution of endovascular treatment in acute thoracic aorta syndromes  
**Guy Leseche, Paris, France**
- 08.30 Cannulating techniques for acute type A dissection and ascending aortic aneurysms extending in the arch  
**Marc A. Radermecker, Liège, Belgium**
- 08.45 Anaesthesiological considerations during thoracic aortic surgery  
**Jose Coddens, Aalst, Belgium**
- 09.00 Brain protection during aortic surgery  
**John Elefteriades, New Haven, USA**
- 09.15 Protection of spinal cord ischemia during surgical treatment and/or TEVAR  
**Thomas Koeppel, Aachen, Germany**
- 09.30 Anesthesiologic considerations during hybrid aortic procedures  
**Christophe Decoene, Lille, France**
- Short presentation**
- 09.45 Who should repair type A aortic dissections?, **Rizwan Attia**
- 09.50 Discussion
- 10.00 Coffee break

## SESSION III

### THORACO-ABDOMINAL AORTA

Moderators:

Guy Leseche & Matthew Thompson


- 10.30 Endovascular treatment of juxtarenal and thoraco-abdominal aortic aneurysms  
**Ralf Kolvenbach, Dusseldorf, Germany**
- 10.45 Hybrid repair of complex thoraco-abdominal aortic aneurysms  
**Matthew Thompson, London, United Kingdom**
- 11.00 Management and long-term results of thoraco-abdominal aortic aneurysms endovascular repair  
**Stephan Haulon, Lille, France**
- 11.15 Management of complications of TEVAR  
**Patrice Bergeron, Marseille, France**
- 11.30 Risk of reintervention after endovascular aortic aneurysm repair  
**Matthew Thompson, London, United Kingdom**
- 11.45 Management of infected endovascular grafts  
**Eric Allaire, Paris, France**
- 12.00 Surgical treatment of thoraco-abdominal aneurysm Indications and results  
**Wilhelm Sandmann, Kamp-Lintfort, Germany**
- Short presentations**
- 12.15 The frozen elephant trunk with E-Vita Open Plus in complex aortic pathologies, **Vito Giovanni Ruggieri**
- 12.20 Traumatic aortic rupture (TAR): thirty years of experience, **Cindy Malliet**
- 12.25 Hybrid total arch repair in patients with moderately dilated ascending aorta, **Won Chul Cho**
- 12.30 Hybrid approach to aortic arch aneurysms: surgical supra-aortic vessels transposition and endovascular stent-graft placement, **Andrea Tognarelli**



12.35 How to predict TAA rupture risk,  
Simona Celi

12.40 Discussion

12.45 Lunch

13.45 **Industry**  **hands-on workshop**  
Rotating shift schedule for 10 participants  
(room level -1)  
**Solo stentless pericardial valve:  
hands-on wet-lab – tips and tricks,**  
Alberto Repossini

### 13.45 Posters presentations

**Moderators:**

Eric Allaire & Tilo Kölbl

- Staged and combined procedures for cardiac surgery and pectus repair in Marfan patients, Vito Giovanni Ruggieri
- Minimal invasive access in surgery for aneurysms of the ascending aorta, Constanze Bening
- Transoesophageal echocardiography (TEE) in monitoring thoracic endovascular aortic repair (TEVAR): use of echocardiographic contrast agent in intraprocedural diagnosis of endoleaks, Massimiliano Mariani
- Hybrid repair of aortic arch aneurysms: encouraging long-term results, Andrea Tognarelli
- Polypoid pseudomyxoma of the ascending aorta following a Dacron Tube graft, Saina Attaran

## MANAGEMENT OF VALVULAR DISEASES

SESSION I

### SURGICAL TREATMENTS OF AORTIC VALVES DISEASES

**Moderators:**

Marc A. Radermecker & John Pepper

14.45 Natural history and echographic evolution of aortic stenosis  
Patrizio Lancellotti, Liège, Belgium

15.00 Late results of aortic root repair and replacement  
John Pepper, London, United Kingdom

15.15 Indications and late results of aortic valve repair  
Gebrine El Khoury, Leuven, Belgium

15.30 Outlook after aortic valve replacement  
John Pepper, London, United Kingdom

15.45 Sutureless aortic valve replacement: results with the Perceval bioprosthesis  
Bart Meuris, Leuven, Belgium

16.00 Innovations in tissue valves: where do sutureless valves fit in?  
Jurg Grunenfelder, Zurich, Switzerland

16.15 Discussion

16.30 Coffee break

### SESSION II

### ENDOVASCULAR TREATMENTS OF AORTIC VALVES DISEASES

**Moderators:**

Victor Legrand & Ines Rodrigus

17.00 TAVI and imaging technics, what are the challenges?  
Erwan Donal, Rennes, France

17.15 Risk stratification and patient selection for TAVI, the surgical point of view  
Costin Radu, Paris, France

17.30 The femoral approach: update of TAVI results  
Victor Legrand, Liège, Belgium

17.45 Indications and results of TAVI by the left ventricular apical approach  
Murat Tuzcu, Cleveland, USA

### Short presentation

18.00 Transaortic transcatheter aortic valve implantation (TAVI) using Edwards Sapien Valve: a novel approach for the “no access” patients, Rizwan Attia

18.05 Discussion

# Saturday October 2

07.30 Welcoming coffee

## MANAGEMENT OF ABDOMINAL AORTIC DISEASES

### SESSION I

#### Moderators:

Nicos Labropoulos & Jess S. Lindholt

08.00 The vulnerable abdominal aorta in man, wall mechanics and stress regulation in response to age/sex and diabetes: implications for aneurysmal disease?  
**Toste Länne, Linköping, Sweden**

08.20 Biomechanics of AAA  
**Tim Mcgloughlin, Limerick, Ireland**

08.40 Prognosis of aortic aneurysms followed by PET-CT  
**Natzi Sakalihasan, Liège, Belgium**

08.55 Potential strategies for medical management of aortic aneurysms  
**Jonathan Golledge, Townsville, Australia**

09.10 Antiplatelet therapy to inhibit AAA growth based upon two cohorts  
**Jess S. Lindholt, Viborg, Denmark**

#### Short presentations

09.25 Falling incidence of abdominal aortic aneurysms in Australia, **Paul Norman**

09.30 Regional differences in wall deformation and mechanics in descending aorta by velocity vector imaging, **Johan Petrini**

09.35 Analysis of cardiovascular risk factors in patients with diabetes and abdominal aortic aneurysm (AAA), **Soroush Sohrabi**

09.40 Relationship between cardiovascular risk factors, atherosclerosis burden and diameter of abdominal aorta: a prospective study, **Michele Depairon**

09.45 Do statins affect abdominal aortic aneurysm (AAA) growth rates? A systematic review of the literature, **Marc Bailey**

09.50 Discussion

10.05 Coffee break

### SESSION II

#### Moderators:

Hendrik Van Damme & Frank Vermassen

10.35 Laparoscopic repair of aorto-occlusive diseases  
**Janine Quaniers, Liège, Belgium**

10.50 Management of abdominal aortic aneurysms and coexistent diseases  
**Vladislav Treska, Pilsen, Czech Republic**

11.05 Endovascular treatment for aorto-enteric fistula and aorto-caval communication  
**Athanasios Giannoukas, Larissa, Greece**

11.20 Endoleak detection with duplex scanning after EVAR  
**Nicos Labropoulos, New York, USA**

11.35 A novel hybrid device for the treatment of aortic aneurysm  
**Koichi Yoshimura, Ube, Japan**

#### Short presentations

11.50 The renal sequelae of endovascular abdominal aortic aneurysm (AAA) repair (EVAR) revisited, **Marc Bailey**

11.55 Calcium Channel Blockers enhance sac shrinkage following endovascular abdominal aortic aneurysm repair (EVAR),  
**Marc Bailey**

12.00 Carotid artery and ischemic heart disease have a bimodal association with aortic diameter, **Gregory Jones**

12.05 EVAR and gender differences in the female population with aortic aneurysms, **Alan Lossing**

12.10 Discussion

12.30 Lunch





### 13.30 Posters presentations

#### Moderators:

Nicos Labropoulos & Vladislav Treska

- Aneurysms of the diaphragmatic aortic segment following previous aortic surgery: institutional experience, **Pavel Sebesta**
- The effects of increasing obesity on outcomes after endovascular repair of abdominal aortic aneurism, **Francesco Pollice**
- Initial clinical experience with the Ovation™ abdominal stent graft system for endovascular repair of abdominal aortic aneurysm, **Thomas Nolte**
- Analysis of cardiovascular risk factors in male and female patients with abdominal aortic aneurysm (AAA), **Soroush Sohrabi**

#### SESSION III

#### Moderators:

Eric Allaire & Eric Steinmetz

- 14.30 Risk management of AAA: which horse to bet on?  
**Arnoud Meijer, Leiden, The Netherlands**
- 14.45 Long term outcome after AAA repair: a french database  
**Eric Steinmetz, Dijon, France**
- 15.00 Ruptured abdominal aortic aneurysms: status quo after a quarter century of treatment experience  
**Wilhelm Sandmann, Kamp-Lintfort, Germany**
- 15.15 Place of the EVAR in ruptured AAA  
**Janet Powell, London, United Kingdom**

#### Short presentation

- 15.30 Mortality, morbidity, and costs of ruptured and elective abdominal aortic aneurysm, **Francesco Pollice**
- 15.35 Discussion
- 16.00 Coffee break

### PRESENTATION AND DISCUSSION ON LATE RESULTS OF EVAR TRIALS

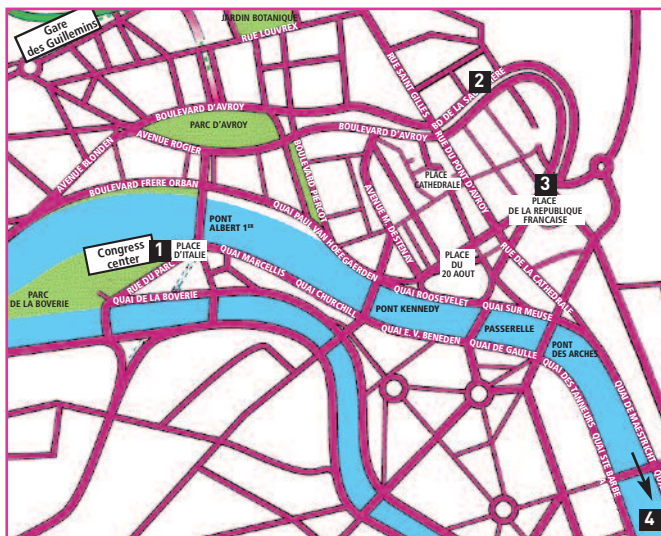
#### Moderators:

Jean-Olivier Defraigne & Frank Lederle

- 16.30 Long term results of DREAM: time to wake up?  
**Jan D. Blankensteijn, Amsterdam, The Netherlands**
- 16.50 Results of OVER trials  
**Frank Lederle, Mineapolis, USA**
- 17.10 Ten year results of EVAR 1 & 2 trials  
**Janet Powell, London, United Kingdom**
- 17.30 Early results of ACE trials  
**Jean Marzelle, Créteil, France**
- 17.50 Discussion
- 18.10 Prizes and closing remarks  
**Helena Kuivaniemi, Danville, USA**  
**Janet Powell, London, United Kingdom**



# G eneral information



## Venue of the meeting

### Congress center

Esplanade de l'Europe, 2  
4020 Liège, Belgium

[www.palaisdescongresliege.be](http://www.palaisdescongresliege.be)

#### 1. Holiday Inn Liège

##### Palais des Congrès\*\*\*\*

Esplanade de l'Europe 2  
Tel: +32 4 349 20 00  
[www.holidayinn-liege.com](http://www.holidayinn-liege.com)

#### 2. Mercure Liège Centre\*\*\*\*

100, boulevard de la Sauvenière  
Tel: +32 4 221 77 20  
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#### 3. Hôtel Ibis Liège Centre Opéra\*\*\*\*

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[www.ibishotel.com](http://www.ibishotel.com)

#### 4. Ramada Plaza Liège City Center \*\*\*\*

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## SOCIAL EVENT

### IMAD Official Gala dinner:

Friday, October 1 - 20.00  
Participation fee: 50 € per person  
All registrants are welcome with one  
guest of their choice.  
Departure with complimentary shuttle  
from the Congress center at 19.45.

## IMAD FREE SHUTTLES

Complimentary shuttles will run between  
Ramada Plaza Liège City Center, Ibis  
Liège Centre Opéra & Mercure Liège  
Centre and Liège Congress Center from  
Thursday to Saturday.

### Shuttles at:

- First Morning session
- Morning coffee break
- Lunch break
- First afternoon session
- Afternoon coffee break
- End of the sessions

For more details and exact schedule,  
see onsite or at the reception desk of  
your hotel.

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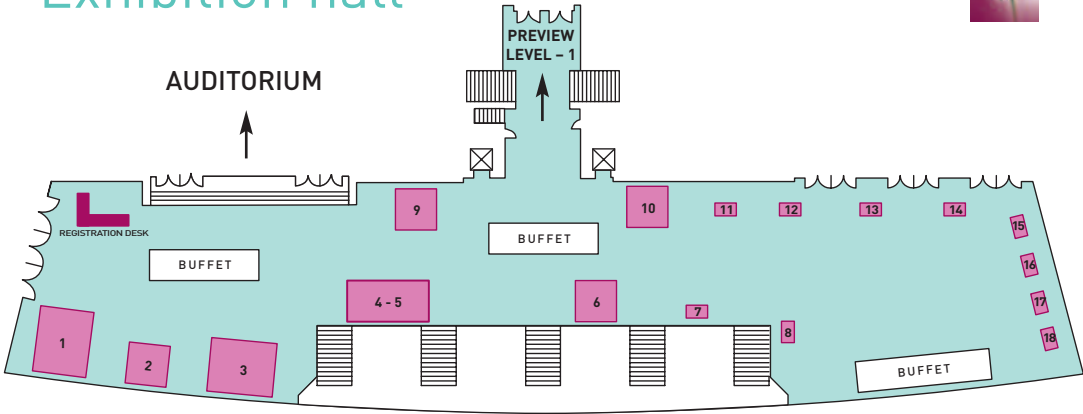
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## REGISTRATION DESK

Thursday .....07.00 - 19.00  
Friday.....07.30 - 18.30  
Saturday.....07.30 - 18.30

# Exhibition hall



## Exhibitors

### Booth Industrial

- 1 EDWARDS
- 2 ST JUDE MEDICAL
- 3 SORIN GROUP
- 4-5 MEDTRONIC ATS
- 6 MAQUET BELGIUM
- 7 ETHICON
- 8 VITALITEC
- 9 COOK MEDICAL
- 10 HOSPITHERA

### Booth Industrial

- 11 BAXTER
- 12 MEDICOR
- 13 EUROX
- 14 CARDOZ
- 15 W.L. GORE  
& ASSOCIATES BV
- 16 BARD
- 17 B BRAUN
- 18 LA MUTUALITÉ  
SOCIALISTE

## Abstracts and posters competitions:

Abstracts have been accepted for short oral presentation or poster display. **APF** will award the four best posters and/or communications as such:

- **Raymond Limet Prizes (750 € and 500 €)** for the two best posters/short communications on natural history and/or physiopathology of abdominal aortic aneurysms
- **Camillo Di Croce Prizes (750 € and 500 €)** for the two best posters/short communications on familial and/or genetic aspects of aneurysms.

**ING Prizes (3 x 500 €)** for the three best posters/short communications on treatment of valvular and aortic diseases.

**Awards ceremony: Saturday, 18.10**

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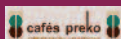
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**SYNTHES**

Coffee kindly offered by Cafés Preko



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