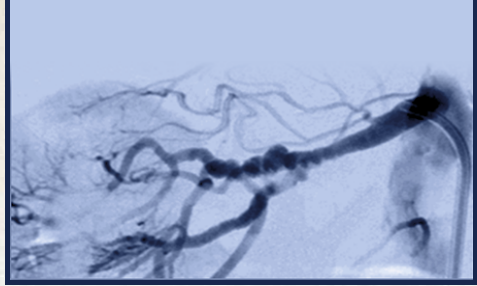


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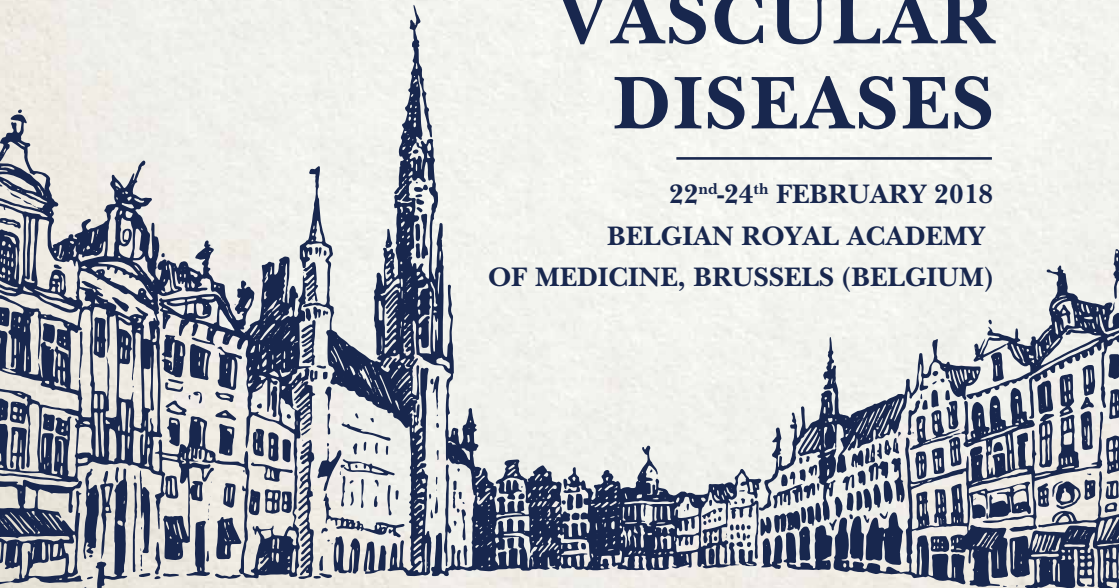
FONDAZIONE  
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MENARINI



INTERNATIONAL SYMPOSIUM  
**REVISITING  
FIBROMUSCULAR  
DYSPLASIA  
& RELATED  
VASCULAR  
DISEASES**

22<sup>nd</sup>-24<sup>th</sup> FEBRUARY 2018

BELGIAN ROYAL ACADEMY  
OF MEDICINE, BRUSSELS (BELGIUM)



**Organized by**

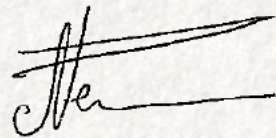
Cardiology Department, Cliniques Universitaires Saint-Luc,  
Université Catholique de Louvain, Brussels, Belgium

Cleveland Clinic Heart and Vascular Institute,  
Cleveland, Ohio, United States of America

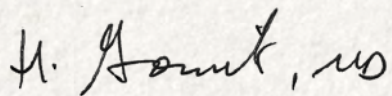


# FINAL PROGRAMME

US and European registries are changing the image of Fibromuscular Dysplasia (FMD) from a rare, curable cause of renovascular hypertension mostly occurring in young women to a more common, diffuse, usually benign but sometimes devastating vascular disease, which may occur at all ages of life, both in men and women. International collaborative efforts are currently underway to unravel the genetics, pathophysiology and natural history of the disease, standardize diagnosis and management, and identify biomarkers and predictors of adverse vascular outcomes. This meeting will bring together leading international experts of FMD and related vascular diseases who will summarize current knowledge on FMD, present cutting edge research and identify clinical challenges and research priorities for the next years. It may interest nephrologists, neurologists, cardiologists, internists, paediatricians, radiologists, vascular medicine specialists, as well as basic and clinical researchers.



**Prof. Alexandre Persu**  
Cardiology Department,  
Cliniques Universitaires Saint-Luc,  
Université Catholique de Louvain  
Brussels, Belgium



**Prof. Heather Gornik**  
Cleveland Clinic Heart and Vascular Institute,  
Cleveland, Ohio, United States of America

**Co - Presidents of the Meeting**

## UNDER THE AUSPICES OF



Cardiology Department, Cliniques Universitaires Saint-Luc,  
Université Catholique de Louvain, Brussels, Belgium



**Cleveland Clinic**

Cleveland Clinic Heart and Vascular Institute,  
Cleveland, Ohio, United States of America

### **Co - Presidents of the Meeting**

**Prof. Alexandre Persu**

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Cliniques Universitaires Saint-Luc,  
Université Catholique de Louvain  
Brussels, Belgium

**Prof. Heather Gornik**

Cleveland Clinic Heart and Vascular Institute,  
Cleveland, Ohio, USA

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### **Professional Congress Organization**

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fondazione@congresslab.it - www.congresslab.it

## Thursday, February 22<sup>nd</sup> 2018 - Afternoon

### *OPENING CEREMONY*

#### AUDITORIUM ALBERT II - GROUND FLOOR

02.30 p.m.	Registration
03.30 p.m.	Welcome Address <b>A. Persu</b> (Brussels, BG) <b>H. Gornik</b> (Cleveland, US)
Chairpersons:	Opening Lectures <b>H. Gornik</b> (Cleveland, US) <b>A. Persu</b> (Brussels, BG)
04.00 p.m.	<b>P.F. Plouin</b> (Paris, FR) 25 years of French research in FMD
05.00 p.m.	<b>J. Olin</b> (New York, US) The (r)evolution in our understanding of FMD, my professional journey
06.00 p.m.	Panel discussion <b>A. Persu</b> (Brussels, BG) <b>H. Gornik</b> (Cleveland, US)
07.30 p.m.	Welcome cocktail



## Friday, February 23<sup>rd</sup> 2018 – Morning

### *Session I – Registries, networks and databases: what have we learnt?*

#### SALLE DU TRÔNE - FIRST FLOOR

Chairpersons:	<b>Y. Sharabi</b> (Tel Aviv, IL) <b>J. Froehlich</b> (Ann Arbor, US)
09.00 a.m.	<b>H. Gornik</b> (Cleveland, US) The US Registry for FMD
09.30 a.m.	<b>A. Persu</b> (Brussels, BG), <b>L. Toubiana</b> (Paris, FR) The European FMD initiative
09.50 a.m.	<b>L. Aparicio</b> (Buenos Aires, AR), <b>T. Chrysochou</b> (Manchester, UK), <b>F. Jarraya</b> (Sfax, TU), <b>Y. Iwashima</b> (Osaka, JP), <b>A. Januszewicz</b> (Warsaw, PL), <b>J. Xu</b> (Shanghai, CN), <b>S. Wilson</b> (Melbourne, AU) Other FMD registries and initiatives around the world
10.20 a.m.	Coffee break

### *Session II – Fibromuscular Dysplasia: a multifaceted vascular disease*

Chairpersons:	<b>L. Yperzeele</b> (Antwerpen, BG) <b>J. C. Wautrecht</b> (Brussels, BG)
10.50 a.m.	<b>S. Debette</b> (Bordeaux, FR) Cervico-cephalic FMD: from symptoms to complications
11.10 a.m.	<b>J. Froehlich</b> (Ann Arbor, US) Recognizing and distinguishing FMD mimics
11.30 a.m.	<b>M. Boulanger</b> (Caen, FR) Carotid bulb diaphragm: is this a variant of FMD? How should this entity be managed?
11.45 a.m.	<b>P. Van der Niepen</b> (Brussels, BG) Digestive FMD: from asymptomatic disorder to vascular emergency
12.00 p.m.	<b>A. Januszewicz</b> (Warsaw, PL) Newly discovered targets of FMD: findings of ARCADIA-POL
12.20 p.m.	<b>K. Lahlou-Laforêt</b> (Paris, FR) DYSPERS: psychological characteristics of FMD patients
12.30 p.m.	Lunch

## Friday, February 23<sup>rd</sup> 2018 – Afternoon

### *Session III – Genetic dissection of FMD and other vascular diseases*

Chairpersons:	<b>X. Jeunemaitre</b> (Paris, FR) <b>M. Vikkula</b> (Brussels, BG)
01:30 p.m.	<b>S. Ganesh</b> (Ann Arbor, US) Genetics of FMD: state of the art and new findings
01:50 p.m.	<b>N. Bouatia-Naji</b> (Paris, FR) <i>PHACTR1</i> and other recently identified susceptibility genes
02:10 p.m.	<b>B. Loey</b> s (Antwerpen, BG) Genetic and acquired causes of vascular tortuosity
02:30 p.m.	<b>D.M. Milewicz</b> (Houston, US) What can we learn about FMD from hereditary aortopathies?

### *Session IV – Vascular function and emerging biomarkers in FMD patients*

Chairpersons:	<b>J. L. Balligand</b> (Brussels, BG) <b>H. Heuten</b> (Antwerpen, BG)
02:50 p.m.	<b>P. Boutouyrie</b> (Paris, FR) The triple line pattern: an intriguing signal in FMD
03:05 p.m.	<b>R. M. Bruno</b> (Pisa, IT) Ultra-high frequency ultrasound for vascular phenotyping in FMD
03:20 p.m.	<b>M. Azizi</b> (Paris, FR) Microparticles, microRNA and other emerging biomarkers
03:40 p.m.	<b>J. Kovacic</b> (New York, US) What can we learn from the fibroblast? The DEFINE study
04.00 p.m.	Coffee break

## Friday, February 23<sup>rd</sup> 2018 – Afternoon

### *Session V – Diagnosis and management of the FMD patient*

Chairpersons:	<b>J. M. Krzesinski</b> (Liege, BG) <b>J. Segura</b> (Madrid, SP)
04.30 p.m.	<b>J. Olin</b> (New York, US) Optimal imaging in FMD: the case for renal and carotid duplex
04.45 p.m.	<b>A. Azarine</b> (Paris, FR) Optimal imaging in FMD: the case for CT-angiography
05.00 p.m.	<b>T. De Backer</b> (Gent, BG) Optimal medical management of FMD
05.15 p.m.	<b>D. van Twist</b> (Maastricht, NL) RAS and renal hemodynamics in FMD
05.30 p.m.	<b>B. Gray</b> (Greenville, US) Renal FMD: when and how to revascularize? When and how to treat renal aneurysms?
05.50 p.m.	<b>K. Tullus</b> (London, UK) Pediatric FMD and mid-aortic syndrome



## Saturday, February 24<sup>th</sup> 2018 – Morning

### *Session VI – Spontaneous coronary artery dissection*

AUDITORIUM ALBERT II - GROUND FLOOR

Chairpersons:	<b>A. Maas</b> (Nijmegen, NL) <b>E. Kim</b> (Nashville, US)
09.30 a.m.	<b>J. Saw</b> (Vancouver, CA) From coronary FMD to SCAD
09.50 a.m.	<b>F. Alfonso</b> (Madrid, SP) Optimal management of SCAD
10.10 a.m.	<b>S. Hayes</b> (Rochester, US) AHA scientific statement on SCAD
10.30 a.m.	<b>D. Adlam</b> (Leicester, UK) The European SCAD consensus and registry
10.50 a.m.	Coffee break

### *Session VII – Management of FMD: from medical consensus to patient-centered approach*

Chairpersons:	<b>P. de Leeuw</b> (Maastricht, NL) <b>A. Morganti</b> (Milan, IT)
11.20 a.m.	<b>H. Gornik</b> (Cleveland, US), <b>A. Persu</b> (Brussels, BG) Towards an international consensus on FMD
11.40 a.m.	<b>P. Mace</b> (Rocky River, US) Patient associations: the example of Fibromuscular Dysplasia Society of America
12.00 p.m.	<b>C. Jamison</b> (FMD-Be, BG), <b>V. Godin</b> (FMD-Be, BG), <b>M. Bouwmeester</b> (FMD-NL, NL) Ongoing efforts towards a European patient network
12.20 p.m.	Discussion <b>P. de Leeuw</b> (Maastricht, NL) <b>A. Morganti</b> (Milan, IT)
12.50 p.m.	Lunch



# SATURDAY, FEBRUARY 24<sup>TH</sup> 2018 – AFTERNOON

## ROOM CATTIER

FMD in a nutshell: key messages from the Brussels-Cleveland FMD symposium.  
A session organized by FMD-Be, the Belgian FMD patient association ([www.fmd-be.be](http://www.fmd-be.be))

Languages: English, Dutch and French

**Venue: Fondation Universitaire, Rue d'Egmont 11, 1000 Brussels**  
([www.fondationuniversitaire.be](http://www.fondationuniversitaire.be))

02.30 p.m.	<b>V. Godin</b> (FMD-Be, BG), <b>C. Jamison</b> (FMD-Be, BG) Why a patient association?
02.45 p.m.	<b>P. Van der Niepen</b> (VUB, Brussels, BG) Fibromuscular Dysplasia: an overview
03.30 p.m.	<b>H. Gornik</b> (Cleveland, US) The US Fibromuscular Dysplasia registry
04.15 p.m.	<b>A. Persu</b> (UCL, Brussels, BG) The Belgian and European FMD initiatives
5.00 p.m.	Questions/Answers session chaired by <b>C. Jamison</b> (FMD-Be, BG), <b>V. Godin</b> (FMD-Be, BG)
6.00 p.m.	Coffee and cookies



## FACULTY LIST

**David Adlam** (Leicester, UK)  
**Fernando Alfonso** (Madrid, SP)  
**Lucas Aparicio** (Buenos Aires, AR)  
**Arshid Azarine** (Paris, FR)  
**Michel Azizi** (Paris, FR)  
**Jean-Luc Balligand** (Brussels, BG)  
**Nabila Bouatia-Naji** (Paris, FR)  
**Marion Boulanger** (Caen, FR)  
**Pierre Boutouyrie** (Paris, FR)  
**Madelon Bouwmeester** (Twello, NL)  
**Rosa Maria Bruno** (Pisa, IT)  
**Tina Chrysochou** (Manchester, UK)  
**Tine De Backer** (Gent, BG)  
**Peter De Leeuw** (Maastricht, NL)  
**Stephanie Debette** (Bordeaux, FR)  
**James Froehlich** (Ann Arbor, US)  
**Santhi Ganesh** (Ann Arbor, US)  
**Véronique Godin** (Brussels, BG)  
**Heather Gornik** (Cleveland, US)  
**Bruce Gray** (Greenville, US)  
**Sharonne Hayes** (Rochester, US)  
**Hilde Heuten** (Antwerpen, BG)  
**Yoshio Iwashima** (Osaka, JP)  
**Cathlin Jamison** (Brussels, BG)  
**Andrzej Januszewicz** (Warsaw, PL)  
**Faiçal Jarraya** (Sfax, TU)  
**Xavier Jeunemaitre** (Paris, FR)  
**Esther Kim** (Nashville, US)  
**Jason Kovacic** (New York, US)  
**Jean-Marie Krzesinski** (Liege, BG)  
**Khadija Lahlou-Laforêt** (Paris, FR)  
**Bart Loeys** (Antwerpen, BG)  
**Angela Maas** (Nijmegen, NL)  
**Pamela Mace** (Rocky River, US)  
**Dianna Milewicz** (Houston, US)  
**Alberto Morganti** (Milan, IT)  
**Jeffrey Olin** (New York, US)  
**Alexandre Persu** (Brussels, BG)  
**Pierre-Francois Plouin** (Paris, FR)  
**Jacqueline Saw** (Vancouver, CA)  
**Julian Segura** (Madrid, SP)  
**Yehonatan Sharabi** (Tel Aviv, IL)  
**Laurent Toubiana** (Paris, FR)  
**Kjell Tullus** (London, UK)  
**Patricia Van der Niepen** (Brussels, BG)  
**Daan van Twist** (Maastricht, NL)  
**Miikka Vikkula** (Brussels, BG)  
**Jean-Claude Wautrecht** (Brussels, BG)  
**Scott Wilson** (Brussels, BG)  
**Jianzhong XU** (Shanghai, CN)  
**Laetitia Yperzeele** (Antwerpen, BG)

# GENERAL INFORMATION

## Meeting venue

The venues for the Meeting will be:

### • Belgian Royal Academy of Medicine

([www.armb.be](http://www.armb.be)) - Rue Ducale 1, 1000 - Brussels, Belgium

Thursday, February 22<sup>nd</sup> 2018

Friday, February 23<sup>rd</sup> 2018

Saturday morning February 24<sup>th</sup> 2018

### • Fondation Universitaire ([www.fondationuniversitaire.be](http://www.fondationuniversitaire.be))

- Rue d'Egmont 11, 1000 - Brussels, Belgium

Saturday afternoon, February 24<sup>th</sup> 2018

## Secretariat during the Meeting

The Secretariat will be open at the following times:

Thursday, February 22<sup>nd</sup> 2018, from 2:30 p.m. to 7.30 p.m.

Friday, February 23<sup>rd</sup> 2018, from 8.00 a.m. to 6.30 p.m.

Saturday, February 24<sup>th</sup> 2018, from 8.30 a.m. to 6.00 p.m.

## Official language

The official language of the Meeting will be English.

The languages during the Closed Session will be English, Dutch and French.

## Registration

The Meeting is free to attend.

Please sign up in one of these links:

### English:

<http://www.en.fondazione-menarini.it/Home/News/Revisiting-Fibromuscular-Dysplasia-and-Related-Vascular-Diseases/Presentation>

### Italian:

<http://www.fondazione-menarini.it/Home/Eventi/Revisiting-Fibromuscular-Dysplasia-and-Related-Vascular-Diseases/Presentazione>

For any question and support please contact the Professional Congress Organization  
(Congress Lab Srl: Phone 1: +39 02 81838120 - Cell: +39 3209066533

Fax: +39 02 87181580 - E-mail: [fondazione@congresslab.it](mailto:fondazione@congresslab.it))

## Technical facilities

Facilities will be available for computer presentations and overhead projections. A business center with PC (Powerpoint for Windows) will be available for check and preview of presentations. It is essential that speakers take their presentation to the business center at least one hour before the session starts.

The center will be open at the following times:

Thursday, February 22<sup>nd</sup> 2018, from 2.30 p.m. to 7.30 p.m.

Friday, February 23<sup>rd</sup> 2018, from 8.00 a.m. to 6.30 p.m.

Saturday, February 24<sup>th</sup> 2018, from 8.30 a.m. to 6.00 p.m.

## Lunches and coffee breaks

Lunches and coffee breaks will be served in the Meeting area.

## Abstracts book

Participants will receive the Abstract book at the Meeting.





