

Strasbourg
France

Palais de la
Musique et
des Congrès

14TH — 17TH
05.2025



Program
Directors

Nabil
Chakfé

Jean
Bismuth

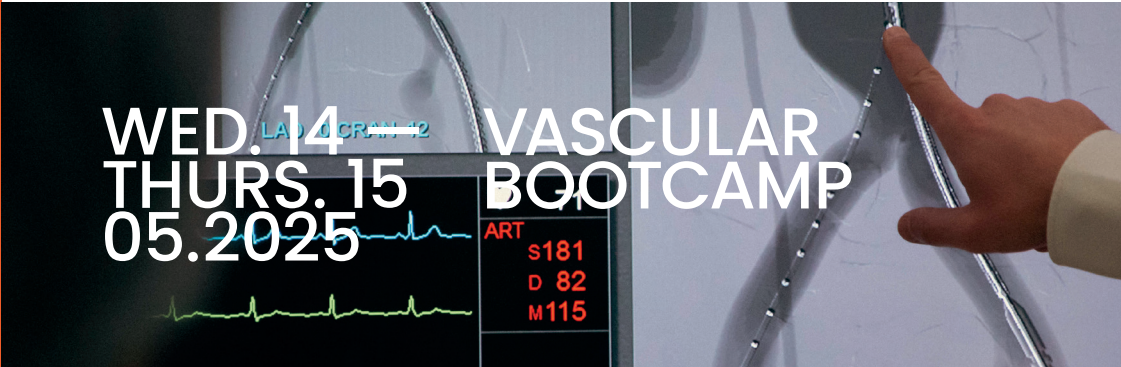
Frédéric
Heim

Ulf
Hedin

EUROPEAN SYMPOSIUM ON VASCULAR BIOMATERIALS

14TH EDITION

WELCOME TO
STRASBOURG



WED. 14 THURS. 15 05.2025

VASCULAR BOOTCAMP

I OBJECTIVES

- 1 Explain the role of simulation in vascular surgery
- 2 Plan surgical procedure (sizing)
- 3 Handle medical devices
- 4 Simulate vascular and endovascular surgery procedures
- 5 Practice suturing techniques (anastomosis, patch or clockface)
- 6 Developing teamwork performance through communication

I OUR EDUCATION TEAM

Pr. Nabil CHAKFÉ
Dr. Vincenzo VENTO
Mrs Cassandre AYMARD
Mrs Annik BORCOS
Mrs Louanne BOURDON
Mrs Wissal LACHEGUR
Dr. Nicole NEUMANN
Mr. Dominique STEIMER

Dr. Nicole NEUMANN
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I TEACHING METHODS

- Presentation of the role of simulation
- Sharing case studies
- Practical workshops on endovascular simulators
- Practical suture workshops
- Practical sizing workshops
- Practical workshop (serious game) on teamwork and communication

I ASSESSMENT PROCEDURE

- Initial and final surveys
- Endovascular surgery assessment grid
- Suture assessment grid (anastomoses, patch or clockface)
- Teamwork and communication assessment grid
- Sizing assessment grid

I PRE-REQUISITE

Residents in vascular surgery from 1st year

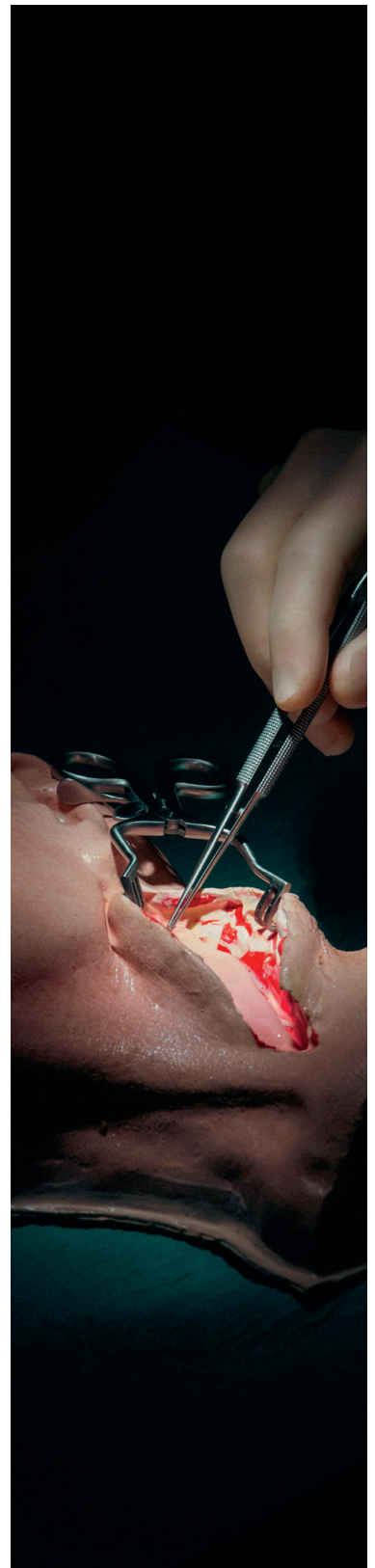
Accessible premises and services adapted for people with disabilities. To take part in the courses, please contact the organisation's disability advisor: education@gepromed.com

I PROGRAM WEDNESDAY 14.05

07:00 07:15		Welcome Gepromed
07:15 08:00		Lectures Gepromed
08:00 08:30		Coffee and change of outfit (for residents)
08:30		Start of practical sessions Gepromed
12:15 12:55		Lunch 1
13:00 13:40		Lunch 2
18:10		End of practical sessions Gepromed
18:30		Wine & Cheese Caves historiques des Hospices de Strasbourg

I PROGRAM THURSDAY 15.05

07:45 08:15		Welcome, coffee and change of outfit — Gepromed
08:15 11:10		Practical sessions Gepromed
12:00		End of vascular bootcamp MOVE TO THE MAIN VENUE Palais de la Musique et des Congrès (PMC)
13:00		Lunch with young researchers ESVB — PMC
14:00 17:00		Masterclass PMC
17:00		End of the day



I TRAINEES' PAIRS

P1 Abdullah ALSAIF
Benjamin LAMY

P2 Janusha BAHEERATHAN
Omar RAISI

P3 Quentin BARRET
Alex BLANCO

P4 Kristine JORGENSEN
Marwane TAHIRI ALAOU

P5 Louise ARNOUX
Johanne FONT

P6 Jorge GARRIDO COSTA
Berit Kristine SKRAASTAD

P7 Lee YUHO
Lavinia-Maria PRODAN

P8 Patricia CARVALHO
Anne Helene KROG

P9 Wissam AZBABAY
Zahra BENZAKOUR

P10 Mariam BREGADZE
Nora UELAND

P11 Théo SAURA
Elena TAGADIUC

P12 Alexandra BEZBORODOVA
Rochini YOGARAJAN

P13 Mohammed ALKHANI
Michel DAHER

P14 Laura PAULETTI
Øystein SCHIØTZ

P15 Vilde IVERSEN
Dominik MADUDA

P16 Bendeguz NAGY
Chalanda SRINILTA

I SUPERVISORS

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Vincenzo VENTO

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TRANSLATIONAL RESEARCHER DAY

THURSDAY
15.05
2025



I RECEPTION – 08:00 AM

I INTRODUCTION – 08:45 AM

I START OF THE PRESENTATIONS – 09:00 AM

09:00 AM

Melt electrowriting for cardiovascular applications

Petra Mela

Munich, Germany

Presentations — 09:30 AM

AHRENS Christina

ALMEIDA Ana Catarina

ARCUTI Dario

BARATI Sara

BERENS Pauline

BONDESSON Johan

CETATOIU Maria

BARKI Darshan

CISSE Soumaila

DANZIG Jakub

Global question session



I COFFEE BREAK – 10:30 AM

11:00 AM

Artificial Intelligence in cardiovascular research:
promises and potential pitfalls

Luca Mainardi

Milan, Italy

Presentations — 11:30 AM

DE CAMPO Giulia

EL MAACHI Ikram

FEREYDOONI Arash

FISHER Andrea

FOGER Nicole

GIRAULT Elise

HENDRICKS Chf

HRUDICKOVA Eva

JOHN Gwenael

KITAGISHI Arisa

MANSI Salma

Global question session



I LUNCH – 01:00 PM

02:00 PM

Doppler implantation towards distal
flow measurements

Jean Bismuth

Tampa, USA

Presentations — 02:30 PM

YAKUSHEVA Alexandra
MCLOUGHIN Kiran John
PEREIRA Andreia
PERELLI Elisa
RAHMAN Tasnuva

RAMELLA Anna
ROCHA Sofia
SCHAFFER Jenny
VAKHITOV Damir

Global question session**I COFFEE BREAK – 03:30 PM****04:00 PM**

Liquid-core fibers for medical applications

Edith Perret

Lausanne, Switzerland

Presentations — 04:30 PM

WISNIEWSKI Nathan
ZANKER Annika
MORSCHER Tobias
GARHANI Zied
ASSAD Abdul Rahman

KACEM Tesnim
MADUDA Dominik
BENDEGUZ Nagy
BRAIG Johannes
IVALDO Catarina
ESPINEL Yamid

Global question session**I CLOSING REMARKS – 05:30 PM****I END – 06:00 PM**

SYMPOSIUM DAY 1: FRIDAY

16.05 2025

MODERATORS



I RECEPTION – 07:15 AM

I SESSION 1: 08:00 – 09:10 AM Occluded aorto-iliac bifurcation 1

Patient-specific image-based computational fluid dynamics analysis of abdominal aorta and branches

References diameters of the abdominal aorta and iliac arteries in different populations

Effect of sex, age, and cardiovascular risk factors on aortoiliac segment geometry

Aorto-iliac calcifications characterizations

Comparison of the haemodynamic performance of various treatment options for aorto-iliac occlusive disease



Take Home Message & Discussion
00:20 minutes

Chairmen:

Jean-Paul De Vries – Groningen, The Netherlands
Michele Antonello – Padova, Italia

Alin Totorean
Timisoara, Romania

Jin Hyun Joh
Seoul, Korea

Adam Szonyi
Budapest, Hungary

Anna Fornasari
Strasbourg, France

Nikolaos Kontopodis
Héraklion, Crete

Jean-Paul De Vries
Groningen, The Netherlands

I SESSION 2: 09:10 – 10:10 AM Occluded aorto-iliac bifurcation 2

Comparative outcomes of aortobifemoral bypass with or without previous endovascular kissing stenting of the aortoiliac bifurcation

Endovascular technologies calcified aorto-iliac occlusions

Chairmen:

Sebastian Debus – Hamburg, Germany
Alin Totorean – Timisoara, Romania

Sandro Lepidi
Trieste, Italy

Michele Antonello
Padova, Italy

Experimental devices versus hand-sewn anastomoses of arteries: a systematic review

Yves Alimi
Marseille, France

Laparoscopic and robotic technologies for aorto-iliac occlusive disease

Sajid Kazmi
Oslo, Norway

Robotic technologies for aorto-iliac occlusive disease

Fabien Thaveau
Clermont-Ferrand, France



Take Home Message & Discussion
00:15 minutes

Sebastien Debus
Hamburg, Germany



I COFFEE BREAK: 10:10 – 10:50 AM

I SESSION 3: 10:50 – 12:20 PM Branches, windows and Co I

Chairmen: Francesco Migliavacca – Milan, Italy
Craig Docherty – Paisley, Scotland
Andrea Kahlberg – Milan, Italy

Fenestrated and branched endografts for partial and total endovascular repair of the aortic arch

Mauro Gargiulo
Bologne, Italy

Aortic motion in areas of connection?

Jason Lee
Stanford, USA

The main requirements for a branch in the arch

Merrill Birdno
Arizona, USA

Three-Dimensional geometric analysis of bridging stents in fenestrated endovascular aortic repair

Jean-Paul de Vries
Groningen, The Netherlands

Iliac stents must be flexible but also crush resistance

Jacob Garland
Arizona, USA

Bridging stents must be crush resistance but also flexible

Becton-Dickinson Engineer

Ulteeva Purity™ membrane for vascular applications – enabling new opportunities

Cheng Wei
Geleen, The Netherlands

From the flash inspiration to the final device

Florent Budillon
Pforzheim, Germany



Take Home Message & Discussion
00:20 minutes

Francesco Migliavacca
Milan, Italy

L LUNCH TALK: 12:20 – 01:50 PM **Churchill room**

A European think tank on reappraisal of open surgery technologies

Sebastien Debus
Hamburg, Germany

Smart materials for vascular surgery

Rouven Berndt
Kiel, Germany

Robot assisted Aortic Surgery: what is possible?

Fabien Thaveau
Clermont-Ferrand, France

Ultrasound guided vascular interventions: the ROBOS project

Mark Preuss
Hamburg, Germany

New sutureless devices

Yves Alimi
Marseille, France

What can we learn from laparoscopy for modern vascular surgery?

Sajid Kazmi
Oslo, Norway

Out of the box: new training models for the vascular surgeon

Nabil Chakfé
Strasbourg, France

I SESSION 4: 01:50 – 03:10 PM **Branches, windows and other business**

Chairmen:
Jason Lee – Stanford, USA
Nabil Chakfé – Strasbourg, France

Physicians-modified endografts, the good, the bad and ugly

Dean Arnaoutakis
Tampa, USA

How physicians-modified endografts are built in the real life: a literature review and survey

Sébastien Deglise
Lausanne, Switzerland

Textile mechanics and degradation prediction

Frédéric Heim
Mulhouse, France

Industry research and choices for endografts textile fabrics

Olivier Lefranc & Job van Helvoirt
Maastricht, The Netherlands

Designs and components does matter

Jeremy Jayet
Paris, France

Which factors to take into account for an optimal custom-made fenestration

Craig Docherty
Paisley, Scotland

Keep the true lumen open in aortic dissections

Shang Loh
Philadelphia, USA



Take Home Message & Discussion
00:20 minutes

Jason Lee
Stanford, USA

I SESSION 5: 03:10 – 04:10 PM

Veins pathologies and stents

Unmet needs in vascular pathologies. What failed in the past? What about venous reendothelialization?

Venous remodelling post thrombosis, stenting, mechanical thrombectomy

In the absence of pathophysiology, what does imaging offer in thrombosis aging

Future in venous thrombectomy

Hydrogel vs fibers for vascular tissue engineering



Take Home Message & Discussion
00:15 minutes

Chairmen: Jean Bismuth – Tampa, USA
Jacques Chevalier – Lille, France
Christopher Cheng – Stanford, USA

Peter Gloviczki
Rocherter, USA

Aloke Finn
Gathersburg, USA

Prakash Saha
London, UK

Malachi Sheehan
New-Orleans, USA

Giorgio Cattaneo
Stuttgart, Germany

Jean Bismuth
Tampa, USA



I COFFEE BREAK: 04:10 – 04:45 PM

I SESSION 6: 04:45 – 05:45 PM

Veins and stents

Superior vena cava syndrome : treatment and stenting

Review of past and existing venous stents

Fatigue evaluation of venous stents

Development of biodegradable polymeric blood vessels and stents

Ever the new european venous register



Take Home Message & Discussion
00:15 minutes

Chairmen: Jos Van Der Berg – Lugano, Switzerland
Peter Gloviczki – Rocherter, USA
Fabien Thaveau – Clermont-Ferrand, France

Peter Gloviczki
Rocherter, USA

Olivier Hartung
Marseille, France

Christopher Cheng
Stanford, USA

Xiumei Mo
Shanghai, Chine

Baris Ata Ozdemir
Bristol, UK

Peter Gloviczki
Rocherter, USA

I SESSION 7: 05:45 – 06:30 PM

Predict

Last 2 years material surveillance news

Predisurge, the behavior of the implanted material

Allstent, the behavior of the implanted material

Fields of clinical relevance of AI in vascular surgery



Take Home Message & Discussion
00:15 minutes

Chairmen: Mihai Mitrea – Ivry, France
Jon Boyle – Cambridge, UK

Jon Boyle & Anne Lejay
Cambridge, UK & Strasbourg, France

Jean-Noël Albertini
Saint-Etienne, France

Sara Barati
Milan, Italy

Kak Khee Yeung
Amsterdam, The Netherlands

Jon Boyle
Cambridge, UK

I ADJOURNMENT – 06:30 PM



SYMPOSIUM DAY 2: SATURDAY 17.05 2025



I RECEPTION – 07:15 AM

I SESSION 8: 08:30 – 10:00 AM Peripheral

Chairmen:
Aloke Finn – Gathersburg, USA
Raphaël Coscas – Paris, France

Additive manufacturing of vascular grafts : tunable compliance by design of multiscale fiber architectures

Petra Mela
Munich, Germany

Sirolimus? Paclitaxel?
A comprehensive review for peripheral intervention

Adrien Hertault
Valencienne, France

Hybrid bioprinting and electrospinning technique for the fabrication of vascular grafts

Norbert Radacsi
Edinburgh, UK

Biodegradable metal implants for vascular applications

Okechukwu Anopuo
Germany

Overview of current clinical data of resorbable scaffolds

Jos van den Berg
Lugano, Switzerland

E-spinning of bioactive micro-tubular structure

Stefan Jockenhoewel
Aachen, Germany

Bioengineering for peripheral arterial diseases: From nanosystems for vascular drug delivery to bioactive small-diameter vascular prostheses

Pier Francesco Ferrari
Genoa, Italy

Manufacturing and validation of small-diameter vascular grafts

Emilio Alarcon
Ottawa, Canada



Take Home Message & Discussion
00:20 minutes

Aloke Finn
Gathersburg, USA



I COFFEE BREAK: 10:00 – 10:30 AM

I SESSION 9 : 10:30 – 11:50 AM

Navigation and robotics

Chairmen: Kak Khee Yeung – Amsterdam, NL
Arindam Chaudhuri – Bedfordshire, UK
Lennart Karstensen – Mannheim, Germany

Electromagnetically navigated in situ fenestration of aortic stent grafts: pilot animal study of a novel fenestrated EVAR approach

Tobias Penzkofer
Berlin, Germany

The effect of endovascular treatment on the arterial wall

Raul Devia Rodriguez
Groningen, The Netherlands

Recurrent neural networks for generalization towards the vessel geometry in autonomous endovascular guidewire navigation in the aortic arch

Lennart Karstensen
Mannheim, Germany

Robocath technology

Mark Preuss
Hamburg, Germany

Mechanical assessment of guidewires mechanical properties

Mohamed Zayed
St Louis, USA

Current state of MRI-guided endovascular arterial interventions: systematic review of preclinical and clinical studies

Jurgen Fütterer
Nijmegen, The Netherlands

Robocath technology

Philippe Bencteux
Rouen, France



Take Home Message & Discussion
00:20 minutes

Arindam Chaudhuri
Bedfordshire, UK

I FAREWELL & CEREMONY AWARDS: 11:50 – 12:15 PM

I OPEN ROUND TABLE – 12:15 PM

I ADJOURNMENT – 01:30 PM

THANK YOU FOR PARTICIPATING!

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