



## 43<sup>rd</sup> European Workshop Basic Techniques of Microsurgery and Cerebral Revascularization

19<sup>th</sup> – 23<sup>rd</sup> May 2025

Department of Neurosurgery  
Medical University of Vienna/University Hospital  
Vienna, Austria

[www.meduniwien.ac.at/microsurgery](http://www.meduniwien.ac.at/microsurgery)

DEPARTMENT OF NEUROSURGERY



### Dear Colleagues!

It is a great pleasure to invite you to our training course on the “basic techniques of microsurgery and cerebral revascularization”.

Our workshop will focus on basic skills to handle the operating microscope and the instruments correctly. Furthermore, you will learn the micromanipulation of different tissues including small vessels and nerves under the microscope. Different kinds of microsurgical anastomosis and nerve coaptations will be performed as well. The course is dedicated not only to residents and young neurosurgeons, also the advanced neurosurgeon will have the opportunity to improve his/her techniques under the supervision of experts in the field. In addition, lectures on different topics relating to microneurosurgery will be presented in between the practical sessions. At least 5 hours of daily practical training have to be anticipated by the trainees. At the end of the training course, lectures from multidisciplinary specialists will focus on presenting the state of the art techniques, indications and latest evidence on cerebral revascularization.

Sincerely yours,

Gerhard Bavinzski  
Workshop Director

Karl Rössler  
Workshop Chairman  
Head of the Department of Neurosurgery

### Monday, 19<sup>th</sup> May

8.45 am  
**Registration**

9.00 – 9.05 am  
**Welcome and Introduction**  
Karl Rössler

9.05 – 9.20 am  
**Lecture: Use and Misuse of the Operating Microscope and Surgical Instruments**  
Gerhard Bavinzski

9.20 – 9.30 am  
**Lecture: Microsurgical Instruments and their Care**  
Team

9.30 – 9.40 am  
**Lecture: Microsurgical Suture Techniques and Suture Material**  
Wei-Te Wang

9.40 – 10.20 am  
**Hands-on: Performance of Running Sutures under the Microscope**  
Instructor: Heber Ferraz-Leite

10.20 – 10.40 am  
**Refreshment Break**

10.40 – 11.20 pm  
**Hands-on: Performance of Interrupted Sutures under the Microscope**  
Instructor: Arthur Hosmann

11.20 am – 12.00 pm  
**Hands-on: Performance of End-to-End Anastomosis on Artificial Vascular Models**  
Instructor: Philippe Dodier

12.00 – 1.00 pm  
**Lunch**

1.00 – 2.00 pm  
**Hands-on: Performance of End-to-End Anastomosis (Arteries)**  
Instructor: Philippe Dodier

2.00 – 3.00 pm  
**Hands-on: Performance of End-to-End Anastomosis (Veins)**  
Instructor: Philippe Dodier

3.00 – 4.00 pm  
**Hands-on: Performance of End-to-Side Anastomosis (Arteries)**  
Instructor: Wei-Te Wang

4.00 pm  
**Adjourn**

6:30 pm  
**Networking Event - „Heuriger Evening“**

### Tuesday, 20<sup>st</sup> May

8.00 – 8.20 am  
**Lecture: Revascularization in Cerebral Ischemia The Technique of the Standard STA-MCA Bypass**  
Gerhard Bavinzski

8.20 – 9.40 am  
**Hands-on: Performance of End-to-Side Anastomosis (Veins)**  
Instructor: Arthur Hosmann, Anna Cho

9.40 – 10.00 am  
**Refreshment Break**

10.00 – 11.00 am  
**Hands-on: Performance of End-to-Side Anastomosis (Arteries, different Angles)**  
Instructor: Maximilian Krawagna

11.00 am – 12.00 pm  
**Hands-on: Performance of End-to-Side Anastomosis (Veins, different Angles)**  
Instructor: Arthur Hosmann

12.00 – 1.00 pm  
**Lunch**

1.00 – 1.20 pm  
**Video Presentation: External Carotid Artery to MCA Bypass Using Saphenous-Vein-Grafts**  
Philippe Dodier

1.20 – 1.40 pm  
**Hands-on: Vein Graft of End-to-End Anastomosis**  
Instructor: Arthur Hosmann, Anna Cho

1.40 – 2.00pm  
**Hands-on: Vein-Wall Patch Graft**  
Instructor: Anna Cho, Maximilian Krawagna

2.00 - 4.00pm  
**Hands-on: Advanced techniques**  
Instructor: Philippe Dodier, Anna Cho

4.30 pm  
**Adjourn**

### Save the date

21<sup>st</sup> - 22<sup>nd</sup> May 2025 (5.00 - 7:30pm)  
Satellite Event: **Advanced Aneurysm Clipping Simulation and Training using exoscopes**

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## Wednesday, 22<sup>nd</sup> May

8.00 – 8.50 am

### Lecture: Microsurgery of the Peripheral Nerves

Tomas Menovsky

8.50 – 9.50 am

### Hands-on: Nerve Coaptation

Instructor: Tomas Menovsky

9.50 – 10.10 am

### Refreshment Break

10.10 - 12.00am

### Experimental Aneurysm Models

Instructor: Wei-Te Wang, Arthur Hosmann

12.00 – 1.00 pm

### Lunch

1.00 - 2.00 pm

### Hands-on: End-to-Side Anastomosis in the Depth

Instructor: Gerhard Bavinzski

2.00 - 2.15 pm

### Case presentation: Side-to-Side Anastomosis in the depth

Instructor: Alexandros Andreou

2.15 - 2.30 pm

### Refreshment Break

2.30 - 4.30 pm

### Hands-on: Side-to-Side Anastomosis

Instructor: Alexandros Andreou

4.30 pm

### Adjourn

## Thursday, 23<sup>rd</sup> May

8.20 am **Be on time!**

### Meeting Place: Department of Neurosurgery

8.30 – 8.50 am

### Introduction to Experimental Microvascular Surgery

Gerhard Bavinzski, Arthur Hosmann

8.50 am – 12.00 pm

### Hands-on: Performance of End-to-End Arterial Anastomosis in Animals (CCA, Aorta, Femoral Artery)

Instructors: Faculty

12.00 – 12.45 pm

### Lunch

12.45 – 2.45 pm

### Hands-on: Performance of End-to-Side Arterial Anastomosis in Animals (CCA)

Instructors: Faculty

2.45 – 3.00 pm

### Refreshment Break

3.00 – 4.00 pm

### Hands-on: Small Caliber Vascular Replacement with Synthetic Grafts

Instructions: Faculty

4.00 pm

### Adjourn

7.00 pm

### Networking Dinner for Course Participants and Members of the Faculty

## Friday, 23<sup>rd</sup> May

8.30 - 8.35am

### Welcome and Introduction

Gerhard Bavinzski

8.35 - 8.55am

### Radiological Assessment of Cerebral Ischemia

Ammar Mallouhi

8.55 - 9.15am

### Pathophysiology of Cerebral Ischemia

Wolfgang Serles (*online*)

9.15 - 9.35am

### History of Cerebral Revascularization and Techniques of carotid thrombendarterectomy

Heber Ferraz Leite

9.35 - 9.55am

### Endovascular aspects of stroke

Wolfgang Marik

9.55 - 10.10am

### Refreshment break

10.10 - 10.30am

### Neurovascular management of aneurysms by a hybrid surgeon: Coiling versus clipping

Alexandros Andreou

10.30 - 11.00am

### The role of bypass surgery in the endovascular era of brain aneurysm treatment. A hybrids' perspective

Gerhard Bavinzski

11.00 - 11.20am

### Bypass Surgery from the Japanese perspective

Satoshi Kuroda (*online*)

11.20 - 11.40am

### Vessel Harvesting and the Belgian bypass experience

Tomas Menovsky

11:40 - 12.45pm

### Lunch

12.45 - 1.05pm

### Upper basilar artery aneurysm surgery - Kawase approach

Vladimir Papic

1.05 - 1.25pm

### Surgical Management of Moya-Moya Disease

Andreas Gruber (*online*)

## Lecture Day

Jugendstilhörsaal  
Spitalgasse 23, BT 88

1.25 - 1.45pm

### Innovating the Future: Transforming Bypass Surgery for the Next Generation

Erez Nossek (*online*)

1.45 - 2.05pm

### Pre- and intraoperative Planning for cerebral revascularization

Philippe Dodier

2.05 - 2.30pm

### Discussion & Awarding of Certificates

Gerhard Bavinzski

## International Faculty

Alexandros Andreou

Department of Neurosurgery and Interventional

Neuroradiology

Hygeia Medical Center, Greece

Satoshi Kuroda

Department of Neurosurgery

University of Toyama, Japan

Vladimir Papic

Department of Neurosurgery

University of Novi Sad, Serbia

King Fahad Hospital, Al Hofuf, Saudi Arabia

Andreas Gruber

Department of Neurosurgery

Johannes Kepler University Linz

Former Workshop Director

Maximilian Krawagna

Department of Neurosurgery

Klinikum St. Elisabeth, Straubing, Germany

Tomas Menovsky

Department of Neurosurgery

Medical University of Antwerp, Belgium

Erez Nossek

Department of Radiology and Neurosurgery

NYU Langone Medical Center, New York, USA

## Organization and Local Faculty

Gerhard Bavinzski\*

Workshop Director

Anna Cho\*

Lorenzo Civilla

Center for Medical Physica and Biomedical Engineering

Philippe Dodier\*

Workshop Secretary

Heber Ferraz-Leite

Private Consultant Neurosurgeon

Found and former Workshop Director

Dorian Hirschman\* (on leave)

Arthur Hosmann\*

Ammar Mallouhi

Dpt. of Biomedical Imaging and Image-guided Therapy

Wolfgang Marik

Dpt. of Biomedical Imaging and Image-guided Therapy

Francesco Moscato

Center for Medical Physica and Biomedical Engineering

Karl Rössler\*

Chairman

David Santer

Center for Biomedical Research and Translational Surgery

Wolfgang Serles

Department of Neurology, Meduni Vienna

Wei-Te Wang\*

Workshop Secretary

\* Dpt. of Neurosurgery, Medical University of Vienna

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Please register at:

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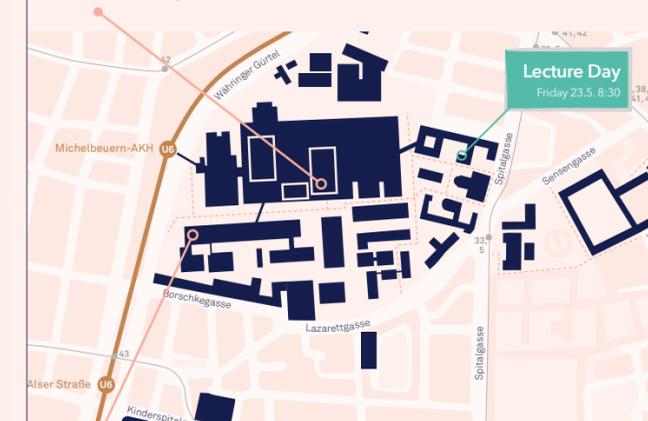
### Course Venue 19<sup>th</sup>-21<sup>st</sup> May 2025:

Medical University of Vienna/University Hospital Vienna

Department of Neurosurgery

Neurosurgical laboratory, Floor 8H

Währinger Gürtel 18-20, 1090 Vienna, Austria



### Meeting Point 8.20 am, 22<sup>nd</sup> May 2025:

Medical University of Vienna/University Hospital Vienna

Department of Neurosurgery

Entrance, Floor 5

Währinger Gürtel 18-20, 1090 Vienna, Austria

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