**REGISTRATIONS**


Technical Secretariat

OREXCO
ORGANIZACIÓN EXTREMEÑA DE CONGRESOS

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# 2026 XXI EXTRA-INTRACRANIAL BY-PASS AND ANEURYSM CLIPPLING MICROSURGERY COURSE.

## PROGRAMME

**MADRID**

**December 15th - 19th, 2026**

**Applied Anatomy Laboratory,**
**Autonomous University of Madrid**
**IdiPaz**

Organize: Dr. Francisco González-Llanos

## DIRECTOR

**Prof. Francisco González Llanos, MD**
*Chief of Neurosurgery Service*
*Toledo University Hospital. Spain*

*I am pleased to announce that the "XXI EXTRA-INTRACRANIAL BY-PASS AND ANEURYSM CLIPPLING MICROSURGERY COURSE" will be held at the Applied Anatomy Laboratory, Autonomous University of Madrid. From Tuesday, December 15th to Saturday, December 19th, 2026. This course provides the necessary skills to learn and manage different types of microsurgical anastomosis.*

*The ongoing development of microvascular surgery and endovascular techniques have increased the need for revascularization processes.*

*You will be able to perform microsurgical anastomoses in live animals and experimental microvascular models, as well as clipping of different types of brain aneurysms.*

*You will have knowledge about cerebral ischemia and you will learn different Extra-intracranial By-pass techniques.*

*Surgical cerebral revascularization and aneurysm management are also part of this course. Based on active research and extensive clinical experience, this course represents the current state of knowledge in the field of vascular microneurosurgery. Technical developments in neuronavigation, neuroendoscopy, etc. are a big step forward, but they will not diminish the need for microsurgical expertise.*

*In addition, the conferences of distinguished invited specialists will update us on the possibilities of microneurosurgery in their corresponding areas of interest.*

*We will do our best to make this Course a scientific and personal experience enriching for you.*

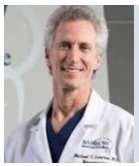
*Welcome.*

## FACULTY INVITED

**Prof. Rokuya Tanikawa, MD**
*Director of Stroke Center*
*Sapporo Teishinkai Hospital*
*Japan*

**Prof. Jorge Mura, MD**
*Master of Chilean Neurosurgery™*
*Past-President Chilean Society of Neurosurgery. Santiago, Chile.*

**Prof. Pablo Rubino, MD**
*Chief of the Neurosurgery*
*Servicio of the German Hospital.*
*Hospital Nestor Kischner*
*Buenos Aires. Argentina*



**Prof. Michael Lawton**
*Phoenix, Arizona*

**Prof. Nakao Ota, MD**
*Sapporo Teishinkai Hospital*
*Stroke Center. Japan*

**Prof. Jon Olabe, MD**
*Chief of the Neurosurgery*
*Grupo Quirón*
*Palma de Mallorca. Spain*

**Prof. Maximiliano Núñez**
*Hospital Nestor Kischner*
*Buenos Aires*

# 2026 XXI EXTRA-INTRACRANIAL BY-PASS AND ANEURYSM CLIPPLING MICROSURGERY COURSE

## TUESDAY, December 15th, 2026

**3D HALL**

**UAM LABORATORY**

**13.45 - 14.00h** Presentation of the Course

**14.00 - 14.20h** History of Vascular Microneurosurgery.

**14.30 - 14.50h** General Techniques of Clipping Aneurysms.

**15.00 - 15.20h** Aneurysms of anterior circulation.

**15.30 - 15.50h** Aneurysms of posterior circulation.

**15.50 - 16.20h** COFFEE-BREAK

**16.20 - 16.40h** History and Techniques of Bypass

**16.50 - 17.10h** FIRST GENERATION BY-PASS. STA-MCA by-pass

**17.20 - 17.40h** SECOND GENERATION BY-PASS. Grafts.

**17.50 -18.10h** THIRD GENERATION BY-PASS. INTRA-INTRA

**18.10 -18.30h** COFFEE-BREAK

**18.30 -18.50h** MICRONEUROSURGICAL TRAINING

**19.00 -19.20h** Swine model for aneurysm clipping

**19.30 - 20.00h** Rat models for aneurysm clipping

## WEDNESDAY, December 16th, 2026

**IdiPAZ**

**09.10 - 10.00h** DEMOSTRATION
"Hands-on": End-to-End anastomosis in rat
Laboratory

**10.00 - 10.30h** COFEE-BREAK

**10.30 - 13.30h** "Hands-on": End-to-end anastomosis in rat
Laboratory

**13.30 - 14.30h** DEMOSTRATION
"Hands-on": Side to End anastomosis in rat
Laboratory

**14.30 - 15.30h** BREAK. LUNCH.

**15.30 - 18.00h** "Hands-on": End-to-Side anastomosis in rat
Laboratory

**15.30 - 18.00h** **"Hands-on": Clipping aneurysms in swine model**
**OR IdiPaz**

**18.00 - 20.00h** CASES FOR DISCUSSION
3D HALL

# 2026 XXI EXTRA-INTRACRANIAL BY-PASS AND ANEURYSM CLIPPLING MICROSURGERY COURSE

## THURSDAY, December 17th, 2026

IdiPAZ

**LIVE CASE WITH DIRECT BROADCASTING**

**09.10 - 10.00h** DEMOSTRATION
"Hands-on": Side to side anastomosis in rat
**DR. GONZÁLEZ-LLANOS**
Laboratory

**10.00 - 10.30h** COFEE-BREAK

**10.30 - 13.30h** "Hands-on": Side to side anastomosis in rat.
Laboratory

**13.30 - 14.30h** DEMOSTRATION
"Hands-on": Advanced techniques for anastomosis
**DR. GONZÁLEZ-LLANOS**
Laboratory

**14.30 - 15.30h** BREAK. LUNCH.

**15.30 - 18.00h** "Hands-on": End-to-Side and end to end anastomosis in rat
Laboratory

**15.30 - 18.00h** "Hands-on": Clipping aneurysms in swine model
**OR IdiPaz**

**18.00 - 20.00h** CASES FOR DISCUSSION
3D HALL

## FRIDAY, December 18th, 2026

IdiPAZ

**09.10 - 10.00h** DEMOSTRATION
"Hands-on": Preparation of the chicken wing model
**DR. GONZÁLEZ-LLANOS**
Laboratory

**10.00 - 10.30h** COFEE-BREAK

**10.30 - 14.30h** "Hands-on": Anastomosis in Chicken wing model
Laboratory

**14.30 - 15.30h** BREAK. LUNCH.

**15.30 - 16.30h** DEMOSTRATION
"Hands-on": Microsuturing veins. Creating AV fistulas in the rat.
**DR. GONZÁLEZ-LLANOS**
Laboratory

**16.30 - 18.00h** "Hands-on": End-to-Side and end to end anastomosis in rat
Laboratory

**18.00 - 19.30h** CASES FOR DISCUSSION
3D HALL

**20.00h** BUS TRANSPORT TO THE OFFICIAL COURSE DINNER

## 3D HALL

**UAM**
**LABORATORY**

**09.10 - 10.00h** **DEMOSTRATION**
"Hands-on": MICROVASCULAR TRAINNING IN BRAIN SPECIMEN.
ANASTOMOSIS:
End-to-side
End-to-end
Lateral-Lateral

**10.00 - 10.30h** COFEE-BREAK

**10.30 - 14.00h** **DEMOSTRATION**
"Hands-on": MICROVASCULAR TRAINNING IN BRAIN SPECIMEN.
ANASTOMOSIS:
End-to-side
End-to-end
Lateral-Lateral

**14.00 - 15.00h** BREAK. LUNCH.

SATURDAY, December 19th, 2026

# WORLD SYMPOSIUM ON SKULL BASE AND CEREBROVASCULAR MICRONEUROSURGERY

## 3D HALL

**15.00 - 15.20h** Anatomical study in the lab. The path for imperfection
**DR. MAXIMILIANO NUÑEZ**

**15.30 - 15.50h** Cavernous sinus as a corridor. MIPLATTA
**DR. MURA**

**16.00 - 16.20h** Training in neurosurgery. How to become a master
**DR. JON OLABE**

**16.30 - 16.50h** Surgical treatment of acute ischemia
**DR. ROKUYA TANIKAWA**

**17.00 - 17.20h** Following Kamiyama.The art of microvascular neurosurgery.
**DR. OTA**

**17.30 - 17.50h** Microsurgery of AVMS
**DR. PABLO RUBINO**

**18.00 - 18.20h** 20h Tricks in AVM surgery
**DR. GONZÁLEZ-LLANOS**

**18.30 - 18.50h** 50h Seven AMVs
**DR. LAWTON**