

Speakers

Francisco Campos. Clinical Neuroscience Research Laboratory. Instituto de Investigación Santiago de Compostela (IDIS), Santiago de Compostela

Luke Diekhorst. Neuroscience and Cerebrovascular Research Laboratory. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

Exuperio Díez Tejedor. Neurology Department. Hospital Universitario La Paz, UAM, Madrid

Iván García Suárez. Emergencies Department. Hospital Universitario San Agustín, Asturias

María del Carmen Gómez de Frutos. Neuroscience and Cerebrovascular Research Laboratory. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

María Gutiérrez Fernández. Neuroscience and Cerebrovascular Research Laboratory. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

Carlota Largo Aramburu. Experimental Surgery Department. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

Fernando Laso García. Neuroscience and Cerebrovascular Research Laboratory. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

Laura Otero Ortega. Neuroscience and Cerebrovascular Research Laboratory. Instituto de Investigación del Hospital Universitario La Paz (IdiPAZ), Madrid

The price includes

Surgical microscope, ultrasound and microsurgery box during practice

Microsurgical sutures and clamps

Computer-based training material

Coffee and lunch

Credits

Accreditation of the course has been requested to the Commission of Continuous Training of the Health Professions of the Community of Madrid - National Health System

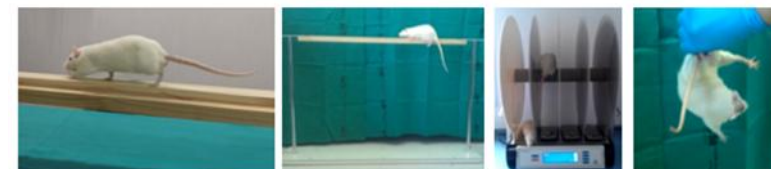
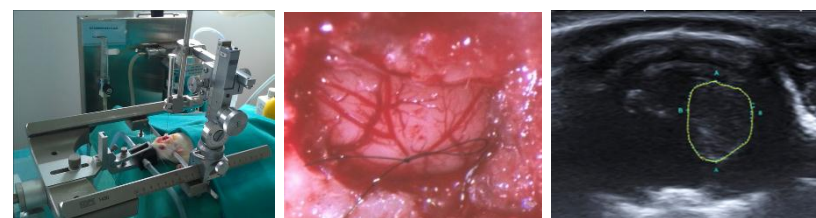


Hospital Universitario La Paz
Fundación para la Investigación Biomédica
Comunidad de Madrid

IdiPAZ
Instituto de Investigación
Hospital Universitario La Paz

UAM
Universidad Autónoma
de Madrid
Escuela UAM
Neurociencias Clínicas

Course of EXPERIMENTAL ANIMAL MODELS FOR STROKE RESEARCH



Days: March 23th and 24th, 2020

Place: IdiPAZ Conference Room and Experimental Surgery Service, floor -1, Research Building, IdiPAZ

Director: Dr. María Gutiérrez Fernández

Organization: Dr. María Gutiérrez Fernández/ Dr. Laura Otero Ortega

Director of the UAM School of Clinical Neurosciences. Chair of Neurology : Prof. Exuperio Díez- Tejedor.

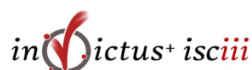
Inscription to the Fundación para la Investigación Biomédica del Hospital Universitario La Paz: Contact person: Nathalia García o Francisco Gil

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Registration fee : 450 euros

Places available: 16 persons

Deadline inscription: March 13th



Monday March 23th, 2020

09:30- 09:45 Introduction

09:45- 10:15 Training in the use of experimental animals

Carlota Largo Aramburu

10:15- 10:45 Handling the rat as an experimental animal

Carlota Largo Aramburu

10:45- 11:15 Microsurgical set. Equipment. Sutures. Surgical microscope. Ergonomics in microsurgery

Laura Otero Ortega

11:15- 11:45 How to evaluate motor and sensory deficits. Evaluation scales

María del Carmen Gómez de Frutos

11:45-12:00 Coffee break

12:00-14:00 Practice neurological scales in rats

María del Carmen Gómez de Frutos, Fernando Laso, Luke Diekhurst

14:00- 15:00 Lunch

15:00- 15:30 Experimental animal models of stroke

María Gutiérrez Fernández

15:30- 16:00 Ultrasound in experimental animal model of stroke

Iván García Suárez

16:00- 18:00 Practice by surgical stations in stroke (middle cerebral artery occlusion (MCAO) model, intraluminal filament, endothelin, collagenase) and ultrasound (brain structures and peripheral organs) in rats

Francisco Campos, Luke Diekhurst, Iván García Suárez, María del Carmen Gómez de Frutos, María Gutiérrez Fernández, Fernando Laso, Laura Otero

Tuesday March 24th, 2020

09:00- 11:00 Practice by surgical stations in stroke (MCAO model, intraluminal filament, endothelin, collagenase) and ultrasound (brain structures and peripheral organs) in rats

Francisco Campos, Luke Diekhurst, Iván García Suárez, María del Carmen Gómez de Frutos, María Gutiérrez Fernández, Fernando Laso, Laura Otero

11:00- 11:30 Translational research in stroke

Exuperio Díez Tejedor

11:30-12:00 Coffee break

12:00- 13:30 Practice by stations: embolism model; femoral vessels approach; caudal vein canalization; intrathecal approach

Luke Diekhurst, María del Carmen Gómez de Frutos, María Gutiérrez Fernández, Fernando Laso, Laura Otero

13:30- 15:00 Lunch

15:00- 18:00 Practice by stations: embolism models; femoral vessels approach; caudal vein canalization; intrathecal approach

Luke Diekhurst, María del Carmen Gómez de Frutos, María Gutiérrez Fernández, Fernando Laso, Laura Otero

Animal experimentation in stroke is essential to test different therapeutic strategies as a previous step before translation to the patient. Animal models should mimic as much as possible the situation suffered by the patient. Adequate management of these models as well as their harmonization in different laboratories is important to move in the same direction and minimize failures in translational research.

The present course is oriented to the acquisition of knowledge and skills that favor the development of translational research in stroke. To this end, it has both theoretical and practical content that provides the methodological and ethical bases necessary to carry out research in this disease.