

# Cerebrovascular Diseases



## Coordinator

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## Members

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## Main Lines of Research

- ▶ Brain neurorepair after stroke.
- ▶ Role of statins in ischemic and haemorrhagic stroke.
- ▶ Prevention of cerebral haemorrhage with anticoagulants.
- ▶ Endothelial progenitor cells in stroke.
- ▶ Aetiological classification of brain haemorrhage.
- ▶ Pathophysiology of hematoma growth in acute cerebral haemorrhage.
- ▶ Benefits and risks of intravenous thrombolysis.
- ▶ Non-invasive monitoring of cerebral flow with applied optic methods.
- ▶ Participation in clinical trials.
- ▶ Cancer and stroke.
- ▶ Vulnerability of the atherosclerotic plaque.
- ▶ Predictors of atrial fibrillation.

## Challenges

- ▶ Enhance cooperation with other groups in the framework of Spanish stroke research.
- ▶ Network (RETICS/INVICTUS) and also intra-hospital and extra-hospital cooperation.
- ▶ To obtain funding from FIS, regional authorities and private companies.
- ▶ Increase the number of contracted and grant-aided researchers and professionally develop existing researchers.

## Collaborations

### Collaborations with other IIB Sant Pau Groups

- ▶ Neuroradiology
- ▶ Thrombosis and Haemostasis
- ▶ Cardiovascular Biochemistry
- ▶ Neurobiology of Dementia
- ▶ Molecular Pathology and Therapeutic of Ischaemic and Atherothrombotic Diseases
- ▶ Stroke Pharmacogenomics and Genetics Group
- ▶ Genomics of Complex Diseases
- ▶ Clinical Epidemiology and Healthcare Services
- ▶ Inflammation and Vascular Remodelling
- ▶ Nuclear Medicine

### External Collaborations

- ▶ Dr. García-Verdugo. Universidad de Valencia, Spain.
- ▶ Dr. Carles Arús. Facultat de Ciències, Universitat Autònoma de Barcelona, Spain.
- ▶ Dr. Turgut Durduran. Instituto de Ciencias Fotónicas, Castelldefels, Barcelona, Spain.
- ▶ Dr. Tomás Sobrino. Hospital General Universitario, Santiago de Compostela, Spain.
- ▶ Dr. Exuperio Díez-Tejedor. Hospital La Paz, Madrid, Spain.
- ▶ Dr. Blanca Fuentes. Hospital La Paz, Madrid, Spain.
- ▶ Dr. Ángel Chamorro. Hospital Clínico de Barcelona, Spain.
- ▶ Dr. Antonio Dávalos. Hospital Germans Trias i Pujol, Badalona, Spain.
- ▶ Dr. Jaume Roquer. Hospital del Mar, Barcelona, Spain
- ▶ Dr. Francesc Purroy. Hospital Arnau de Vilanova, Lleida, Spain.
- ▶ RETICS (cooperative health research network) / INVICTUS (ictus research)
- ▶ Clinical trials:
  - ASSENT
  - SWITCH
  - ENCHANTED
  - RESPECT-ESUS
  - NAVIGATE-ESUS
  - CONVINCe
- ▶ Dra. Jennifer Linn (SUSPECT study), University of Rochester, New York
- ▶ Dr. David Werring (HERO and CROMIS-2 study, Microbleeds consortium), National Hospital for Neurology and Neurosurgery, London.
- ▶ Dr. Peter Kelly (BIOVASC study, CONVINCe study), Mater University Hospital, Dublin.

Active Grants

- ▶ Joan Martí Fàbregas. INVICTUS. RD12/0014/0002. Instituto de Salud Carlos III. Duration: 2013-2017. 165,220.40 €.
- ▶ Joan Martí Fàbregas. Estudio de la progresión y la vulnerabilidad de la aterosclerosis carotídea: influencia del recuento de Células Endoteliales Progenitoras y del control de factores de riesgo vascular. PI15/00884. Instituto de Salud Carlos III. Duration: 2016-2018. 106,500.00 €.
- ▶ Joan Martí Fàbregas. REgenerative Stem cell therapy for Stroke in Europe - RESSTORE. PHC-15-2015. Unió Europea. Duration: 2015-2020. 389.58 €.
- ▶ Joan Martí Fàbregas. Red de Enfermedades Vasculares Cerebrales. INVICTUS PLUS RD16/0019/0010. Instituto de Salud Carlos III. Duration: 2017-2021. 50,008.00 €.

Note: Total amount granted to PI. It does not include indirect costs.

Grants Awarded in 2017

- ▶ Raquel Delgado Mederos. Cerebral blood flow-guided early rehabilitation intervention after stroke: a pilot randomized trial. MARATO 20170930. Fundació La Marató de TV3. Duration: 2018-2021. 114,900.00 €.
- ▶ Elena Jiménez Xarrie. Biomarcadors lipoproteics per determinar la inflamació de la placa carotídia en l'ictus isquèmic., MARATO 20171610. Fundació La Marató de TV3. Duration: 2018-2021. 158,060.00 €.

Note: Total amount granted to PI. It does not include indirect costs.

Theses

- ▶ Xavier Vidal Novellas. Eficacia de las ondas de choque radiales en comparación con la toxina botulínica tipo A para el tratamiento de la espasticidad en las extremidades inferiores en pacientes con parálisis cerebral. Ensayo clínico cruzado aleatorizado. Universitat Internacional de Catalunya. Director: Joan Martí Fàbregas. Date of defense: 10/02/2017.

\*TIF: 104.3490 \*\*MIF: 5.7971

Scientific Production

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go-Fabrega C., Domingues-Montanari S., Delgado P., Ribo M., Castellanos M., et al. The Use of Genetics to Predict the Vascular Recurrence after Stroke (2017) STROKE, 48 (5), 1147-1153.  
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# Cerebrovascular Diseases

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## Scientific Production

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