

This Friday's seminar will be given by **Dr. Anna Planas**. She leads the Laboratory for Cerebrovascular Research and is Head of the Department of Neuroscience and Experimental Therapeutics at the Institute for Biomedical Research (IIBB) of the CSIC in Barcelona, and she is a scientist at the Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), where she coordinates the area of Neurosciences. Her main interest is to underscore the contribution of inflammatory and immune responses to brain damage. Below, some selected recent publications.

**Publications: Arachnoid membrane as a source of sphingosine-1-phosphate that regulates mouse middle cerebral artery tone**

[Jiménez-Altayó, F.](#), [Marzi, J.](#), [Galan, M.](#), ...[Jiménez-Xarrié, E.](#), [Planas, A.M.](#)

Journal of Cerebral Blood Flow and Metabolism, 2022, 42(1), pp. 162–174

**The risk of COVID-19 death is much greater and age dependent with type I IFN autoantibodies**

[Manry, J.](#), [Bastard, P.](#), [Gervais, A.](#), ...[Abel, L.](#), [Cobat, A.](#)

Proceedings of the National Academy of Sciences of the United States of America, 2022

Human genetic and immunological determinants of critical COVID-19 pneumonia

[Zhang, Q.](#), [Bastard, P.](#), [Karbuz, A.](#), ...[Cobat, A.](#), [Casanova, J.-L.](#)

Nature, 2022, 603(7902), pp. 587–598

**Dendritic Cells and Microglia Have Non-redundant Functions in the Inflamed Brain with Protective Effects of Type 1 cDCs**

[Gallizioli, M.](#), [Miró-Mur, F.](#), [Otxoa-de-Amezaga, A.](#), ...[Sancho, D.](#), [Planas, A.M.](#)

Cell Reports, 2020, 33(3), 108291

**Mannose-binding lectin promotes blood-brain barrier breakdown and exacerbates axonal damage after traumatic brain injury in mice**

[Pedragosa, J.](#), [Mercurio, D.](#), [Oggioni, M.](#), ...[de Simoni, M.-G.](#), [Planas, A.M.](#)

Experimental Neurology, 2021, 346, 113865

**Role of the S1P pathway and inhibition by fingolimod in preventing hemorrhagic transformation after stroke**

[Salas-Perdomo, A.](#), [Miró-Mur, F.](#), [Gallizioli, M.](#), ...[Chamorro, A.](#), [Planas, A.M.](#)

Scientific Reports, 2019, 9(1), 8309