**MARIA MITTELBRUNN** is the Head of Immunometabolism & Inflammation lab at Molecular Biology Center “Severo Ochoa” (Madrid, Spain) since 2017. Her research goal isto identify new ***strategies to target immune cells for boosting systemic resilience to inflammaging, cellular senescence and age-related multimorbidity***. She has obtained funding from the major European and Spanish funding organizations, including an **European Research Council Starting Grant** in 2016, and **Consolidator Grant** in 2022.

Among the more important discoveries from her lab:

1. Demonstration that mimicking age-associated mitochondrial dysfunction in T cells does not only recapitulate immunosenescence, but causes a general, body-wide deterioration of health with multiple aging-related features. These results place the metabolism of T cells at the crossroad between inflammation, senescence and aging, highlighting that immunometabolism can be a therapeutic target to delay aging.
2. Decoding the molecular mechanisms by which aged T cells contribute to inflammaging and age-related diseases
3. The above studies in her laboratory have allowed them to propose new therapeutic targets to delay age-related multimorbidity and to reverse aortic aneurysms and prevent sudden death due to aortic dissections

Overall, her scientific work consists in more than 60 articles that account for 14.000 citations in total, with an h-index of 45.

Her international leadership in the field is endorsed by having been an "Invited Speaker" at more than 60 conferences and international congresses in the last 5 years, including **Gordon Conferences**, **Cold Spring Harbor Conferences**, **EMBO workshops**, **Keystone Symposium**, and participating as a keynote speaker on several occasions.

She has been awarded with Doctoral thesis Extraordinary Prize (2006), **L’Oréal UNESCO** for Women in Science (2015), and **BANCO SABADELL AWARD** for Biomedical Research (2022**), Royal Spanish Academia of Science for young researchers** among others.