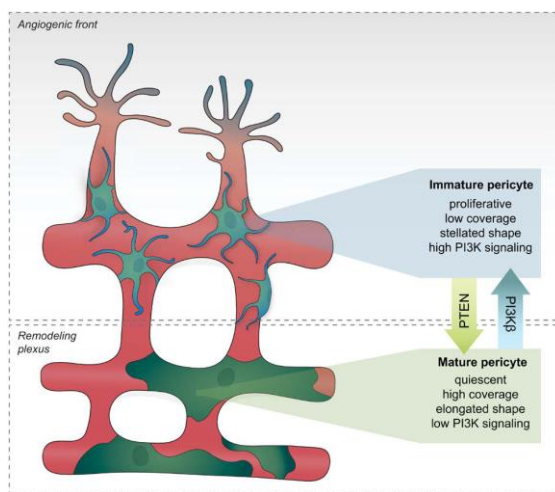




MASTER STUDENT AND/OR CANDIDATE FOR PRE-DOCTORAL FELLOWSHIPS IN VASCULAR BIOLOGY OF OPHTHALMOLOGIC DISEASES

Project Summary: Blood vessels are composed by tube-forming endothelial cells and mural cells. Pericytes are mural cells covering capillaries and their functions extend beyond vessel stability, including barrier properties, regulating blood flow and immune cell trafficking. Our recent published data (doi: 10.1161/CIRCULATIONAHA.119.042354) clearly showed that pericyte state of maturation per se is able to modify endothelial



biology during physiological angiogenesis. If mature/immature pericytes might modulate pathological neurovascular responses remains unknown. To answer this question, we will use specific mouse models of mature/immature pericytes combined with models of prevalent ocular diseases such as diabetic retinopathy or glaucoma, in vitro models and human samples from our clinical collaborators. We aim to identify pericyte-specific therapeutic targets that may improve current therapies for those diseases.

PI: Pilar Villacampa <https://www.webofscience.com/wos/author/record/1108130>

My lab has recently opened at the Dept. Ciències Fisiològiques, Facultat de Medicina i Ciències de la Salut, UB, Campus Bellvitge.

Requirements:

Degree and/or Master on any field on Biology, Biochemistry, Biomedicine or similar

Academic record >8

Good level of English

Commitment, Teamwork, Proactivity, Critical Thinking and Passion for Science!

Previous experience in cell culture techniques, cell biology and/ or molecular biology will be also appreciated

Are you interested? Please send me email describing your scientific interests and your CV to pvillacampa@ub.edu