Marie Skłodowska Curie Individual Fellowship 2018
Expression of Interest for hosting Marie Curie Fellows

1. Supervisor (name and e-mail address)

Marco Presta (marco.presta@unibs.it)

2. Department (name and address)

Department of Molecular and Translational Medicine
Viale Europa 11, 25123, Brescia, Italy

3. Panel (choose one)

☐ Chemistry (CHEM)
☐ Social Sciences and Humanities (SOC)
☐ Economic Sciences (ECO)
☐ Information Science and Engineering (ENG)
☐ Environment and Geosciences (ENV)
X Life Sciences (LIF)
☐ Mathematics (MAT)
☐ Physics (PHY)

4. Description of your research activities (max 10 lines)*


2012–present: Retina neovascularization. Major focus on the mechanisms of diabetic retinopathy and identification of therapeutic anti-angiogenic compounds (tools: human vitreous from diabetic patients, in vitro and in vivo models of angiogenesis).

2014–present: Galactosylcerebrosidase (GALC) in neurodegeneration and cancer. Role of GALC in tumor growth (tools: human and murine melanoma cell lines, sh-RNA GALC silencing) and Impact of GALC deficiency in CNS neovascularization (Tools: GALC deficient Twitcher mice).

5. Key-words

Angiogenesis, anti-tumor therapy, FGFs, VEGFs, endothelial cells, cancer, extracellular matrix, retinopathy, zebrafish, tumor xenografts, retinopathy
6. Short CV of the supervisor (max 5 lines)

Professor of General Pathology, Coordinator of the PhD program “Precision Medicine” and Director of the Zebrafish Facility at the University of Brescia, Italy. International Journal Peer Reviewer and Granting Agency Reviewer. Major scientific goals: discovery of human FGF2; discovery of the pro-angiogenic activity of erythropoietin, HMGB-1 and gremlin; identification of long-pentraxin-3 as a natural FGF antagonist; identification of the first small molecule anti-FGF trap.

7. List of 5 main publications of the supervisor


*Please consider that the preparation of a Marie Curie proposal requires some time. Fellow and supervisor have to agree on a project and training opportunities for the fellow.