



Call for applications for the assignment of 1 research fellowship grant for carrying out Category B research activities, as per Article 22 of Italian Law No. 240/2010, for the Scientific Disciplinary Sector of BIOS-12/A – Human Anatomy, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Medicine and Surgery of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/23_24

Departmental Faculty	Medicine and Surgery
Research theme in English	Exploring the mitochondrial transfer from adipocytes to macrophages in the control of systemic glucose metabolism
Brief description of the research in English	Brown (BAT) and subcutaneous adipose tissue (sWAT) govern the adaptive thermogenesis and their activity progressively decline during aging and type 2 diabetes (T2D). In parallel, a progressive low-grade inflammation is a pervasive risk factor for developing T2D. Interactions between adipocytes and immune cells are essential to maintain metabolic homeostasis and, when dysregulated, can drive pathologic inflammation that promotes obesity and T2D. Several studies have demonstrated that mitochondria are released by various cell types and that tissue-resident macrophages actively take extracellular mitochondria. Through a single-cell resolution multi-layered approach, in this project we intent to explore the role of macrophages in the mitochondrial quality control of thermogenic adipocytes.
Scientific Supervisor	Prof. Simone Carotti
Scientific Disciplinary Sector	BIOS-12/A – Human Anatomy
Language knowledge and skills	English B2
Date of the interview	16th September 2024, at 10:30 am Remote candidates on Microsoft Teams platform