



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 BIO/10 – Biochemistry, at the facilities of the Centro Integrato di Ricerca (CIR - Integrated Research Centre) and of the Departmental Faculty of Medicine and Surgery of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/22_23

Departmental Faculty	Medicine and Surgery
Research theme	Interaction between lipid systems involved in the modulation of the inflammatory response and its resolution
Brief description of the research	The project aims to investigate the role of endogenous immunomodulatory lipids – such as endocannabinoids (eCBs) and specialized pro-resolving lipids (SPMs) – and of their interaction in the resolution of inflammation, in human primary immune cells (monocytes/macrophages, lymphocytes). The study will involve the use of biochemistry techniques such as ELISA, Western blot and tandem mass spectrometry, and cellular immunology techniques such as isolation and culture of primary immune cells and polychromatic flow cytometry. The signalling pathways of both lipid systems will be investigated, with emphasis on the interaction between the respective metabolic pathways and between the receptors engaged by each of the two lipid classes. This study will be applied to cellular immunology contexts and extended to other paradigms, such as simulated microgravity models and murine models of inflammation resolution.
Scientific Supervisor	Dott. Alessandro Leuti
Scientific Disciplinary Sector	BIO/10 – Biochemistry
Language knowledge and skills	Excellent level of English, spoken and written B2
Date of the interview	19th January 2024, at 3:00 p.m. Remote candidates on Microsoft Teams platform