



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 ING-IND/24 – Fundamentals of Chemical Engineering, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Science and Technology for Sustainable Development and One Health of Università Campus Bio-Medico di Roma.

Call Code: ASS-RIC/07_24

Departmental Faculty	Faculty of Science and Technology for Sustainable Development and One Health
Research theme in English	Computational analysis of TRAF2 dimer
Brief description of the research in English	<p>TRAFs, key players in TNFR signaling, interact with various proteins, such as glutathione transferase P1-1; they link the receptor to downstream effectors, regulating signaling pathways in inflammation and cancer. TRAF2's molecular mechanism remains elusive due to limited structural and dynamic information, as well as its role in membrane association and trafficking.</p> <p>The project aims at applying computational methods (Canonical Analysis of Molecular Dynamics, Protein Contact Networks) to understand the structure-function relationship of the trimeric form of TRAF2, a trafficking membrane protein under analysis because likely to participate to the molecular mechanism behind cancer and other pathological diseases.</p>
Scientific Supervisor	Prof.ssa Luisa Di Paola
Scientific Disciplinary Sector	ING-IND/24 – Fundamentals of Chemical Engineering
Language knowledge and skills	English B2
Date of the interview	29th February 2024, at 11:30 am Remote candidates on Microsoft Teams platform