

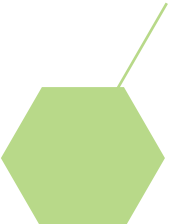


Giovedì 5 Novembre, ore 15:00


presso l'Aula Magna della Scuola Speciale per Archivisti e Bibliotecari
Viale Regina Elena 295

Prof. LORETTA TUOSTO

Dipartimento di Biologia e Biotecnologie "C. Darwin"




Phosphatidylinositol lipid kinases: critical regulators of T lymphocyte activation and functions



Phosphatidylinositol 4,5-bisphosphate (PIP₂) is a pivotal source for second messenger generation and for controlling the activity of several proteins regulating important cellular processes. Despite its critical role in T cell activation, the molecular mechanisms regulating PIP₂ turnover remain largely unknown. In this seminar, we will present recent data highlighting a critical role of CD28 costimulatory molecule in regulating PIP₂ synthesis and turnover through the recruitment and activation of two PIP₂ regulating kinases; PI3K and PIP5K. We will also provide evidences of the involvement of PIP₂ regulating kinases in the regulation of CD28 pro-inflammatory functions and on the potential efficacy of selective targeted therapies for immune-based diseases.

per informazioni: pasteurcenci@uniroma1.it

tel: 06 49255625



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