Hospital Universitario Ramón y Cajal

INSTITUTO RAMÓN Y CAJAL DE INVESTIGACIÓN SANITARIA IRYCIS

SEMINARIOS IRYCIS 2026

Environmental cues shaping T cell immunity in Infection and cancer

Emma Teixeiro Pernas

University of Missouri

22 ENERO 2026 14:00h

on line (Zoom)

Dr. Teixeiro's laboratory focuses on eliciting T cell immune responses that provide long-term protection against pathogens and cancer. Utilizing advanced technologies, her research delves into the molecular mechanisms that govern the development and functionality of memory T cells. Additionally, her lab investigates T cell exhaustion, exploring why T cells lose their effectiveness in chronic infections and cancers. Dr. Teixeiro's lab aims to leverage this knowledge to enhance immunotherapies for cancer and infections, including vaccines and adoptive cell therapy (ACT). Collaborating with interdisciplinary teams, Dr. Teixeiro's lab connects basic research with clinical applications in fields such as respiratory infections and oncology. Her research has been published in high-impact journals, including Science, Nature, Immunity, and PNAS. Her lab consistently receives funding from external agencies, including the NIH. She frequently reviews for prestigious journals like and serves as a Section Editor for the Journal of Immunology. Additionally, she reviews for funding agencies such as NIH, UKRI, and the Leibniz Institute.

Dr. Teixeiro earned her Ph.D. in Biochemistry and a second Ph.D. 'Cum Laude' in Immunology and Signal Transduction from Universidad Complutense de Madrid. She then pursued postdoctoral studies with a Fundación Ramón Areces fellowship at Universitätsspital Basel under the guidance of Professor Ed Palmer, where she received several awards. In 2008, she established her own lab as an Assistant Professor in the Department of Molecular Microbiology and Immunology at the University of Missouri in the U.S., where she was honored with a Young Investigator Award. She is currently an Associate Professor and is in the process of being promoted to Full Professor at the Next Gen Precision Medicine Building at the University of Missouri.