

May 7
2026

DMEM & BIOMETRA Seminar



Doctorate program
Milan
EXPERIMENTAL
MEDICINE



UNLOCKING CELL IDENTITY CHECKPOINTS IN THE BRAIN: IMPLICATIONS FOR METABOLIC AND REPRODUCTIVE HEALTH

Carmelo Quarta

INSERM University of Bordeaux

Understanding the biological mechanisms behind the rise in cardiometabolic diseases, such as obesity and diabetes, is a critical research priority. Many of these mechanisms involve brain neurons that regulate energy balance and metabolic health. Our data suggest that prolonged diet-induced metabolic stress, during both embryonic and adult life, may disrupt molecular pathways that maintain neuronal identity in the hypothalamus, thereby contributing to the onset and progression of obesity and related neuroendocrine disorders, including infertility. In this talk, I will explore how studying neuronal identity checkpoints can enhance our understanding of cardiometabolic disorders and inform targeted therapeutic strategies.

Carmelo Quarta is Tenure Principal Investigator at INSERM University of Bordeaux and ERC Consolidator Grant awardee.

Funded by Portus project
Fondazione Invernizzi



4:00 PM

AULA Magna, LITA Segrate

Scan **this** or click **HERE** to join the seminar online on MS Teams.

More info and connection details:

www.biometra.unimi.it

biometra.seminars@unimi.it