UNIVERSITÀ DI TRENTO

Dipartimento di Biologia Cellulare, Computazionale e Integrata - CIBIO

EXTERNAL SEMINAR



THURSDAY, 12 NOVEMBER 2026

FROM **4.30 PM**
ROOM **A205**
POVO 1

Alessandra Boletta

UNIVERSITÀ VITA-SALUTE SAN RAFFAELE

PRIMARY CILIA AS NUTRIENT SENSORS AND FINE TUNERS OF MITOCHONDRIAL ACTIVITY

Primary cilia integrate environmental signals to coordinate cellular functions and tissue homeostasis. Emerging evidence reveals their role in sensing nutrient availability and fine-tuning mitochondrial metabolism. This seminar will explore how ciliary signalling connects glutamine availability to cellular energy homeostasis and metabolic adaptation. Attention will be given to the interplay between ciliary dysfunction, mitochondrial activity and metabolic reprogramming in polycystic kidney disease.
These findings provide new perspectives on the metabolic functions of primary cilia and potential therapeutic opportunities in renal ciliopathies.

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