

IBIOL EXTERNAL SEMINAR



11 December 2025



12:15–13:15



ROOM F 200



Alice Bosco

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**Phototrophic Sulfur Bacteria and Their Viruses:
Biosignatures from Early Earth to Anoxic Worlds**

What if the evidence of life we search for—on Earth and beyond—were partly written by viruses? In the shadows of anoxic worlds, phages quietly reprogram their bacterial hosts, tweaking metabolism and reshaping the chemistry of life itself.

Their hidden influence may redefine how we recognize biosignatures across space and time.