

IBIOL SEMINAR SERIES



26 MARCH 2025



12:15–13:30 PM



ROOM F-100



Ivan Skakov

Incongruence and structural variation shape rapid mitogenome evolution in a 2000-isolate panel of the wheat pathogen *Zymoseptoria tritici*

Mitochondria play crucial roles in fungal cells serving as hubs for energy conversion. Mitogenomes exhibit astonishing incidences of genome expansions and rearrangements among species. How such variation arises remains largely unknown. Here, we address this question by establishing the largest intra-species survey of mitochondrial genomes focused on the major wheat pathogen *Zymoseptoria tritici*.



Quentin Gallot

A Primate Grammar Enabling Incremental Processing

I am investigating the evolution of vocal complexity in non-human primates as part of my PhD research. Using data collected from wild Olive colobus monkeys in Ivory Coast, I explore how their simple vocal repertoire is structured into syntactically organized sequences, enabling incremental processing. Through this work, I aim to uncover the evolutionary roots of combinatorial communication and its role in primate social interactions, offering insights into the origins of human language.



Zsafia Winter

Channeling your inner self: The role of MAP70-2 during lateral root formation

Lateral root development begins with asymmetric cell divisions in the primary root's inner layers. The orientation of these divisions is crucial for proper cellular arrangements during organ formation, though the mechanisms behind this process in deep-lying tissues are still unclear. Recent studies highlight the role of microtubule-associated proteins (MAPs) in guiding division plane orientation by influencing dynamic changes in the organization of microtubules. We see that MAP70-2, a member of the plant-specific MAP70 family, is required during the early stages of lateral root formation for proper orientation of cell divisions during early stages of development and thereby contributes to lateral root morphogenesis.

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