Contribution ID: **119** Type: **Talk from invited speaker**

Bacteria-inspired exploration of immune functions in eukaryotes

Wednesday, 7 October 2026 10:10 (30 minutes)

A flurry of recent discoveries showed that defense islands in the microbial pan-genome contains hundreds of defense systems, the functions of many of which are still unexplored. The talk will present progress in understanding the mechanisms of action of new defense systems, will highlight cases in which bacterial defense from phage gave rise to key components in the eukaryotic innate immune system, and will demonstrate how phages evolved to overcome bacterial immunity.

Reference #1

Reference #2

Reference #3

Author: SOREK, Rotem (Weizmann Institute of Science)

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Session Classification: Novel anti-viral defence systems

Track Classification: Novel anti-viral defence systems