EMBO

EMBO Lecture Series

with Gianni Liti
Institute for Research on Cancer and Aging (IRCAN), Nice | France

Saccharomyces variation across the world

28 May 2024

Institute of Molecular Biology and Biotechnology of the Foundation for Research and Technology Hellas (IMBB-FORTH)

Seminar room 1 “Kostas Fotakis”, FORTH building
13:00

An understanding of natural variation is crucial to efforts in current biology and to decipher the dynamics of genome evolution. The budding yeast, Saccharomyces cerevisiae, has emerged as a leading system for population genomics studies due to it's small, well-characterized genome and experimental tractability. In the past decade, we assembled a large collection of natural isolates of S. cerevisiae and its closest relative S. paradoxus strains and characterized them at the genomic and phenotypic levels. We applied different sequencing and computational approaches to investigate origin, evolution, secondary contacts, and domestication of the species. These data provide a comprehensive view of genomic diversity in budding yeast and expose pronounced population-level differences.

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ncbs National Centre for Biological Sciences Tata Institute of Fundamental Research
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