

Departamento de Ciências da Vida

Yeast Evolutionary Ecology

The Yeast Genomics lab @ NOVA



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Prof. Associado

PhD in Biology (UNL)

Objectives

- Understand evolutionary and molecular aspects of domestication in microbes, namely in wine and beer yeasts
- Understand the (natural and artificial) evolution of biotechnologically relevant traits of *Saccharomyces* species
- Understand the evolutionary ecology of species in the genus *Saccharomyces* at a global scale

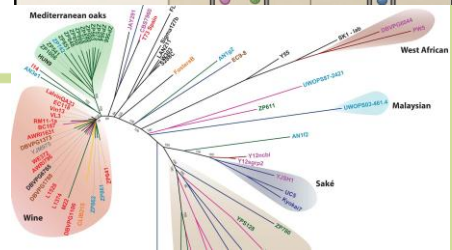
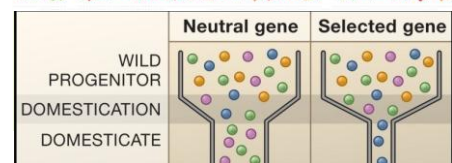
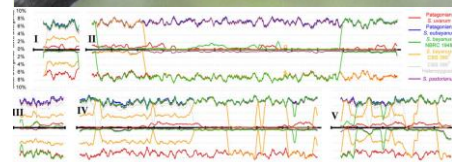
Learn more at http://www.crem.fct.unl.pt/Yeast_Genomics_Lab

Methodology

- Whole genome sequencing
- Population genomics and population structure analyses
- Molecular phylogenetics

Expected Results

- Identification of domesticated lineages of *Saccharomyces* and of their wild ancestors
- Identification of the genetic bases of phenotypic changes associated with domestication
- An updated phylogeographic picture of *Saccharomyces*



Funding:

Research projects:
PTDC/BIA-EVF/118618/2010
PTDC/AGR-ALI/118590/2010
PEst-OE/BIA/UI0457/2011