FAIRY - FAIRification of YEASTRACT+ to Support Yeast-based Bioeconomy and Health



The FAIRY project focuses on enhancing YEASTRACT+, a widely used open-access FAIRsharing Knowledge-base and repository, that supports research on yeast transcriptional regulation. FAIRY aims to significantly advance scientific understanding of yeast regulatory networks and improve the platform by integrating advanced data analysis tools, ensuring compliance with FAIR principles.

cross-species regulatory data



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Solution Challenge Scientific Impact **Partners** Despite YEASTRACT+'s role FAIRY will develop and By offering ready-made INESC-ID Lisboa, Instituto as a leading resource for integrate tools for quantitative predictions on how genes Superior Técnico -Universidade de Lisboa yeast transcriptional transcriptomics analysis are regulated and how yeast regulation, it currently lacks within YEASTRACT+, allowing cells process nutrients, the researchers to identify project will make it easier for quantitative gene expression data. Moreover, scientists to reuse the data, regulatory interactions and assess their quantitative many yeast species in the speeding up research in impact on gene expression database remain poorly designing better yeast levels.It will rely on the Galaxy strains for industry and characterised, while many Europe platform for raw data yeast species remain finding new antifungal drug understudied. curation, deploying machine targets. learning models trained on https://www.oscars-project.eu/projects/fairy-fairification-