SEMINAR

Genome-wide identification of the grape R2R3-MYB transcription factor cistrome for discovering novel regulators of plant specialized metabolism

About the speaker

Luis Orduña is a PhD student at the Transcriptional Orchestration of Metabolism studied through Systems Biology Lab (TOMSbiolab), located in the Institute for Integrative Systems Biology (I2SYSBIO) in Valencia, Spain, and led by Dr. José Tomás Matus. After finishing his Master's degree in Bioinformatics, he joined TOMSbiolab in September 2020, interested in the application of systems biology approaches to the study of the regulation of plant secondary metabolism, using grapevine as a model species. During his PhD thesis, Luis has participated in the development of pipelines for gene co-expression network generation, comparing the performance of different construction methods and using the networks as a proxy for secondary metabolism regulatory landscape. He has also been involved in the generation of a standardized DNA affinity purification sequencing (DAP-Seq) analysis pipeline, being able to characterize several transcription factors cistromes, proving their regulatory role on several secondary metabolic pathways. Finally, he has been involved in the bioinformatics team behind VitViz, a publicly available platform for the visualization and analysis of genomic data generated during his PhD. He is currently working on integrating the VitViz platform within the context of Grapedia, a centralized hub for genomic resources in grapevine as well as improving the transfer of older annotation versions to the new reference genome.

Luis Orduña
PhD student

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Info

ROOM 6302
PRC BUILDING - FEM

18/05/2023 h. 14:30-15:30

FEM host: Dr. Marco Moretto
Computational Biology Unit

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