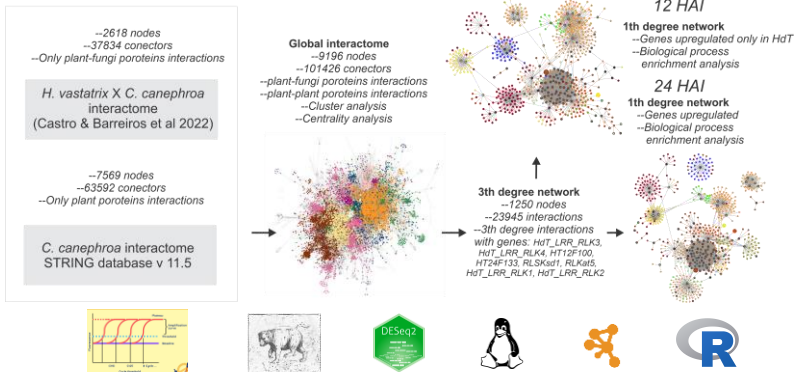


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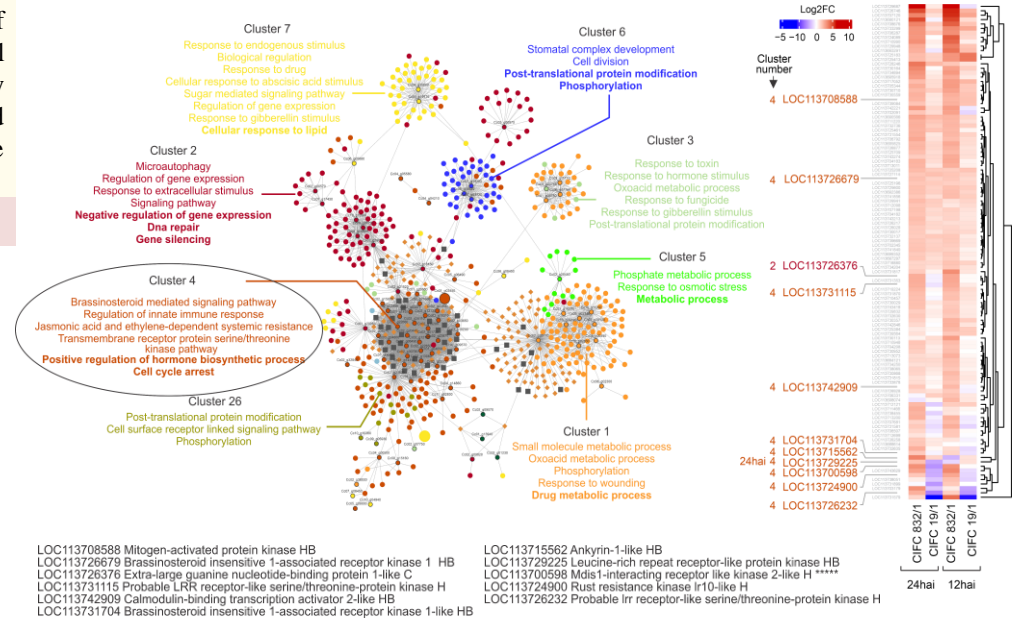
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Introduction: The fungus *Hemileia vastatrix* is the pathogen that causes coffee leaf rust, a devastating disease in coffee production worldwide. Knowledge of pathogen attack strategies and how the plant defends itself during plant-pathogen interaction is crucial for the development of control alternatives. However, the *Coffea-H. vastatrix* interaction is still poorly studied. This study aimed to investigate the gene expression profile and analyzed interactome of putative candidate genes associated with coffee resistance to *H. vastatrix*.

Materials/Methods



Results/Discussion



Conclusion/Perspectives: The analysis of protein-protein interactions and biological processes involved in these interactions allowed the description of new candidate genes acting directly on the coffee resistance to *H. vastatrix*. The results are valuable for breeding programs aimed at developing coffee cultivars with durable resistance, in addition to enabling a better understanding of the *Coffea-H. vastatrix* pathosystem.

References: Castro, I. S. L., Barreiros, P. R. R. M., Mendes, T. D. O., Florez, J. C., Silva, E. D. A., Porto, B. N., ... & Caixeta, E. T. (2022). Gene expression and interactome analysis of candidate effectors associated with pre-and post-haustorial *Hemileia vastatrix*-coffee interaction.

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