CropPrime

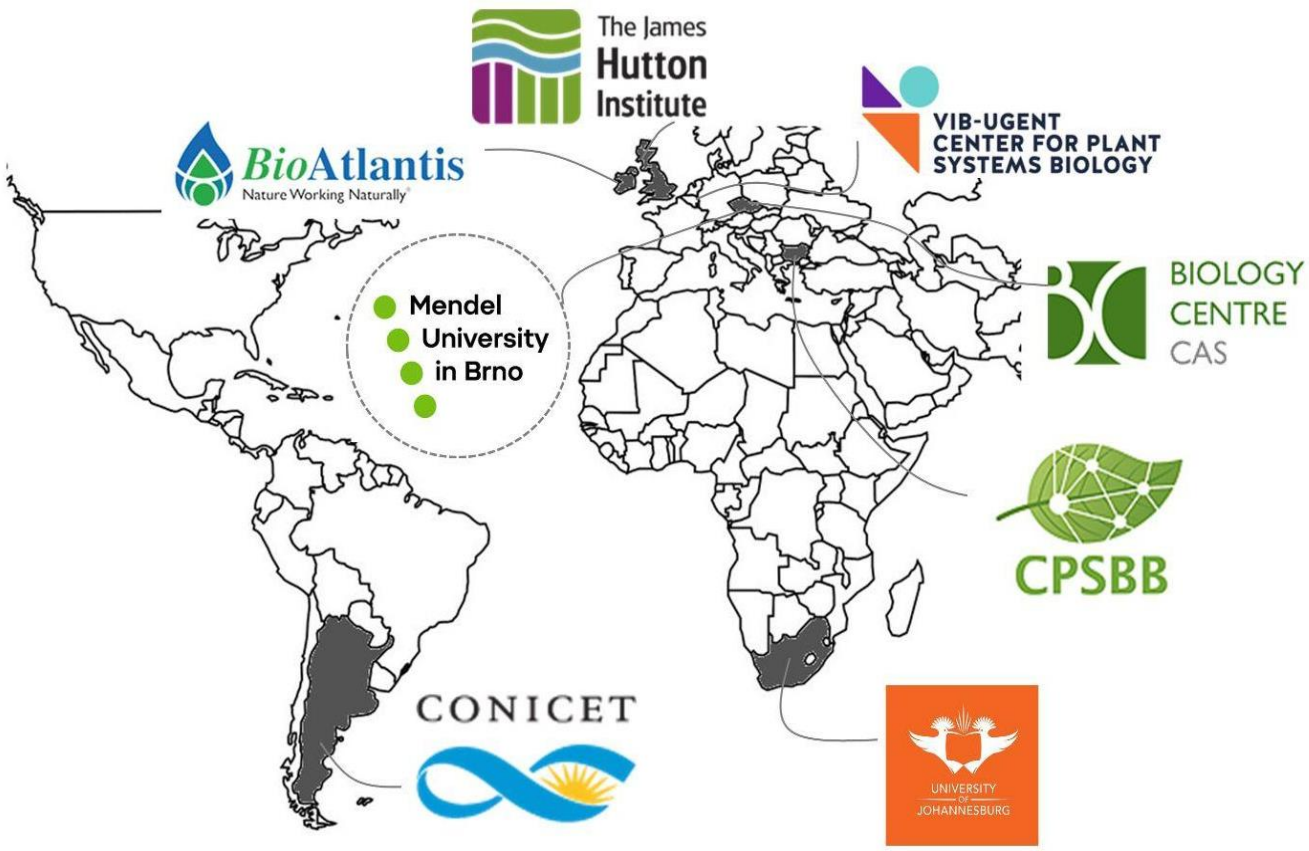
Stabilizing **CROP** yield under unfavourable conditions by molecular **PRIM(E)**ing

(2023- 2026)

EU Contribution: €1,002,800.00

Pavel Kerchev

CZ-SK Information Day on MSCA SE, 2023



EUROPE

Czech Republic

- Mendel University in Brno (Coordinator)
- Biology Center CAS

Bulgaria

- Center of Plant Systems Biology and Biotechnology

Belgium

- VIB - Center for Plant Systems Biology

Ireland

- BioAtlantis (**Industrial partner**)

UK

- The James Hutton Institute

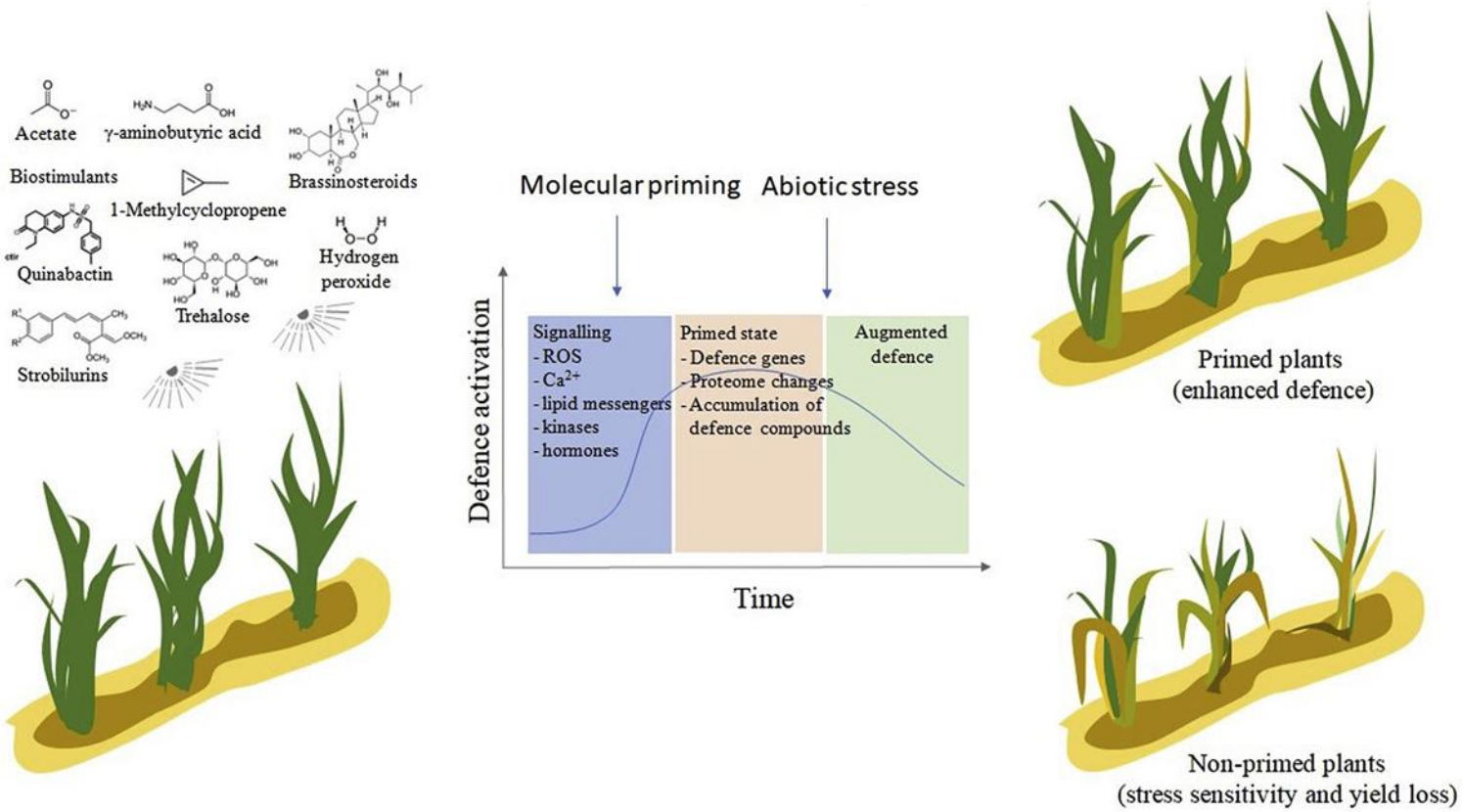
ARGENTINA

- IBR CONICET

SOUTH AFRICA

- University of Johannesburg

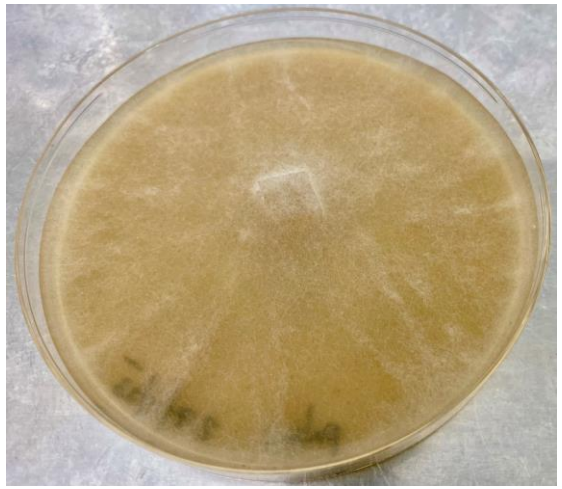
Plant defense activation by molecular priming



Kerchev at al., (2020) Biotechnology Advances

Novel natural products with biostimulant properties

Phytophthora extracts



Mendelova univerzita v Brně

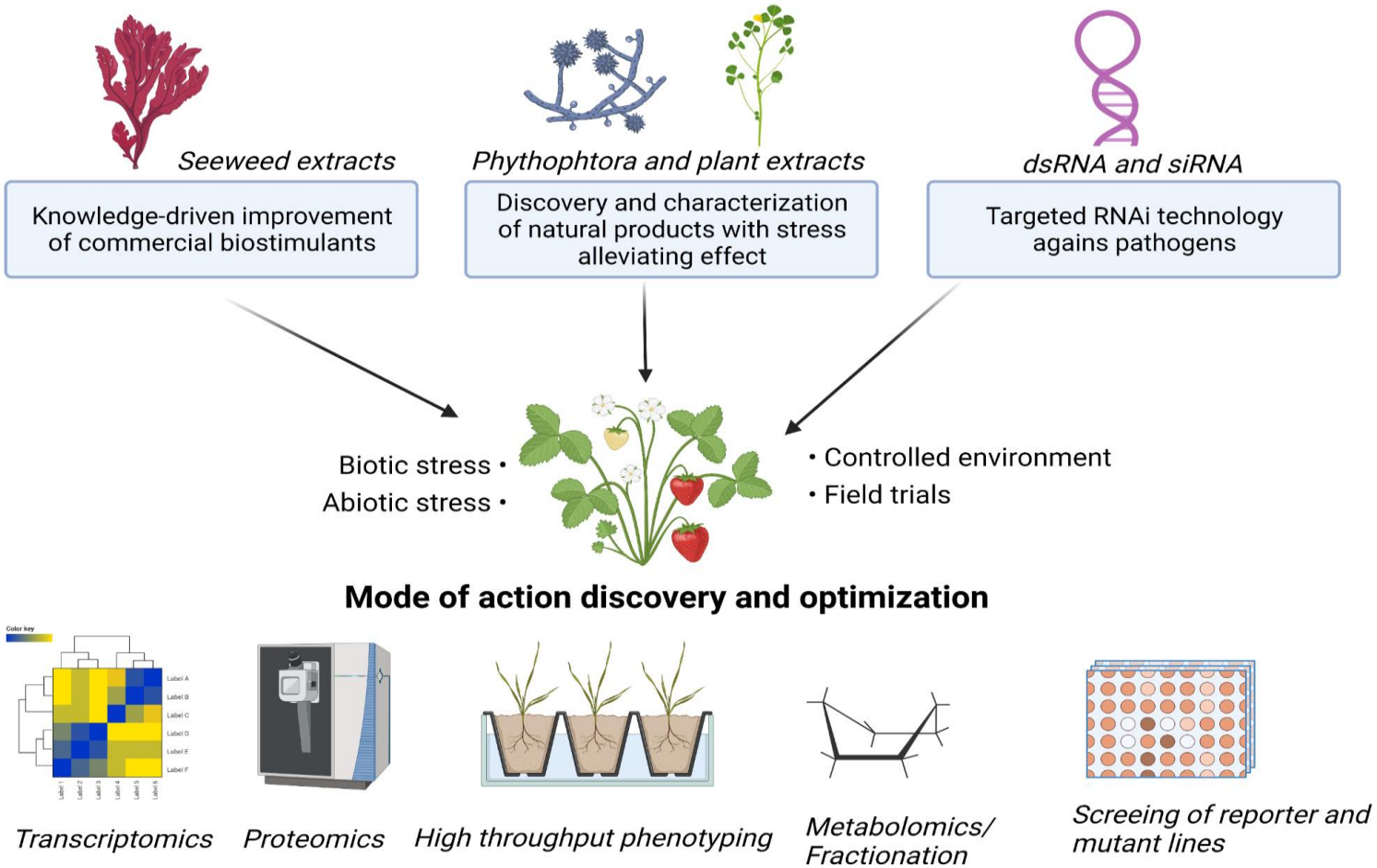
Seaweed extracts

BioAtlantis
Nature Working Naturally®

Rosemary extracts

I B R
CONICET
U N R

Main objectives in CropPrime



Secondments

- Total of **230** person-months (36 planned secondments)
- 42 person-months for **interdisciplinary secondments**

Training opportunities

- **Plant proteomics workshop** (MENDELU)
- **High throughput phenotyping** (JHI, Scotland)
- **Plant metabolomics (**University of Johannesburg, South Africa**)**
- **Signal transduction in plants (**BS CAS, Czech Republic**)**
- **Molecular tools for study of plant-pathogen interactions (**IBR-CONICET, Argentina**)**
- **Complementary skills and technology transfer (**CPSBB, Bulgaria**)**
- **Entrepreneurship and transferable skills (**JHI and BioAtlantis**)**
- **Trial design and statistics (**BioAtlantis, Ireland**)**

Acknowledgements

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