



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Curriculum Vitae

Family Name: Borella

Given Name: Matteo

Nationality: Italian

Date of birth: 05/11/1994

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Education:

- PhD in Animal and Food Science, University of Padova (2021-)
- Research fellowship: "Development of Computational models for expression data normalization", (6 months 2020-21)
- Research fellowship: "Comparison of statistical methods for the analysis of single cell RNA-seq data", (6 months 2020)
- M.Sc. Master degree in Statistical Sciences (Biostatistics), University of Padova (2016-19)
- B.Sc. Bachelor degree in Statistics, Economics and Finance (2013-16)

Research areas:

- RNASeq data
- Bioinformatics
- Analysis of the impact of biostimulants

PhD project:

The project aims to develop innovative and environmentally sustainable defense instruments in sugar beet organic farming. Such instruments will contribute to the rationalization of water resources, as well as plant product protection.

This will enhance ecosystem services, and bring environmental and economic advantage through innovative tools of biological control. The objective is the growth of biodiversity, using innovative biological formulations against adversities (i.e. biostimulants).

My task in the project is to lead the statistical and bioinformatic analysis to identify the differentially expressed genes (DEG) responding to the biostimulants treatment. In the project, I will conduct RNAseq for transcriptome analysis and apply a bioinformatic pipeline to target the DEG.

The results of the research may be used both from beet growers, in the marginal intervention area and for those more generally participating in the organic/integrated farming scheme, providing adequate technical means to obtain products in satisfactory quantity and quality.

Supervisor:

Piergiorgio Stevanato

Publications:

<https://scholar.google.com/citations?hl=en&user=JDdoxRMAAAAJ>