

## Mirko De Vivo

Ph.D. Candidate in Genetics and Molecular Biology

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Nationality: Italian

## Profile

Ph.D. candidate in Genetics and Molecular Biology with hands-on experience in rice, maize, and Arabidopsis development. Enthusiastic about Plant Biotechnology, with a focus on Molecular Breeding of Crop Species. Passionate about innovative solutions for sustainable agriculture.

## Skills

- Data Analysis (GraphPad)
- FACS
- HPLC-MS
- Plant DNA/RNA Extraction
- PCR Protocol Optimization
- Gel Electrophoresis
- CRISPR/Cas9 Cloning and Genome Editing
- In Vitro Propagation
- Genotyping and Breeding (Rice, Maize)
- Optic and Confocal Microscopy
- Software: SnapGene, ApE, CLC Genomics Workbench
- Microsoft Excel, Dropbox for Lab Organization
- Databases: PubMed, WOS, TAIR, BLASTn
- Oral Research Presentations and Team Collaboration

## Education

University of Roma "La Sapienza" (Ph.D. in Genetics and Molecular Biology)

January 2022 – Present

Trained in advanced areas of basic and applied research in Genetics and Molecular Biology.

Double Degree Master, Université Grenoble Alpes (UGA) & University of Milan (UNIMI)

September 2019 – October 2021

Specialized in Plant Molecular Biology, with courses in Advanced Plant Cell Biotechnology, Molecular Plant Breeding, and High-Throughput Biology.

BS'c in Biotechnology, University of Milan (UNIMI)

October 2016 – July 2019

Fundamental knowledge in Life Sciences, with a focus on Plant Genetics, Molecular Breeding, and Physiology.

## Employment History

Ph.D. in Genetics and Molecular Biology, University of Roma "La Sapienza"

January 2022 – Present

- Conducted extensive bibliographic research on climate change impacts on soil hardness.
- Investigated root diameter impact and plant fitness in arid conditions.
- Developed strategies to manipulate cortical layer numbers for improved adaptability of Brassica species.

## Internships

Ph.D. Internship at Palacký University Olomouc, Olomouc

March 2024 – June 2024

- Specialized in analytical methods for plant hormone analysis using FACS and LC-MS.

Ph.D. Internship at Sacco System

September 2023 – October 2023

- Developed high-quality probiotic microorganisms and sustainable agricultural solutions.

VIB-UGent Center for Plant Systems Biology, Gent

January 2021 – October 2021

- Utilized CRISPR/Cas9 for maize genome editing and phenotyping of mutants.

## Conferences and Workshops

- PLANTA International Annual Symposium (APIS), Jardin Du Lautaret (2023)
- International Symposium Auxins and Cytokinins in Plant Development, Prague (2023)
- Plant Biotechnology for Agriculture of the XXI Century, Milan (2023)
- ICAR Conference, Belfast (2022) – Online Poster Presentation

## Awards

- "Bando Mobilità 2023" Grant - University of Roma "La Sapienza"
- Fellowship to attend the ICAR 2022 Conference

## References

- Prof. Raffaele Dello Ioio, University of Rome "La Sapienza"  
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- Dr. Hilde Nelissen, VIB-UGent Center for Plant Systems Biology  
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