ANDREA DODDI, MSC.

CONTACT

Google Scholar:
https://scholar.google.com/citations?user=wpQv5AcAAAAJ&hl=it&oi=ao

Research Gate:
https://www.researchgate.net/profile/Andrea-Doddi

Twitter: https://x.com/AndreaDoddi

Linkedin:
https://www.linkedin.com/in/andrea-doddi-b13869163/

EMAIL:
andrea.doddi@uniroma1.it
adoddi@uni-koeln.de

EDUCATION

University of Rome "La Sapienza" (Italy)
PhD student in Environmental and Evolutionary Biology cv. Botany
November 2021 – October 2024
Thesis: Effector profile of soil-borne fungal pathogens.
Supervision: Prof. Luigi Faino – Prof. Bart Thomma

University of Rome "La Sapienza" (Italy)
Master in Science in Cellular Biology and Technology
October 2019 – July 2021
Thesis: To have or not to have. Story of an effector gene.
Supervision: Prof. Luigi Faino

University of Rome "La Sapienza" (Italy)
Bachelor in Agro-Industrial Biotechnology
October 2015 – March 2019
Thesis: Selection of *A. thaliana* 17340::P5CS2 lines in wild-type background and preliminary analysis of fertility under stress condition
Supervision: Prof. Maurizio Trovato

EXPERIENCE

Max Planck Institute for Plant Breeding Research (MPI-Germany)
[Research Internship]
March 2019 – June 2019
Project: Involvement of TFL1 gene in *A. thaliana* flowering time.
Supervision: Dr. Alice Pajoro, Prof. George Coupland

Universiteit Van Amsterdam (The Netherlands)
[Erasmus Traineeship]
January 2021- June 2021
Supervision: Prof. Martijn Rep

Universität zu Koln
[Visiting PhD student]
April 2023 – on going
Projects:
1. Characterization of an effector gene in *V. dahliae* with homologs in other wilt pathogens.
2. Implication of antimicrobial activity of the effector *Av2* of *V. dahliae* in the interaction with soil microbiota
3. Understanding the *V. dahliae* genome evolution

Supervision: Prof. Bart Thomma

SKILLS

Scientific interests: Plant immunity, Plant physiology, Plant-microbe interactions, Resistance genes, Effector genes, Next-generation sequencing

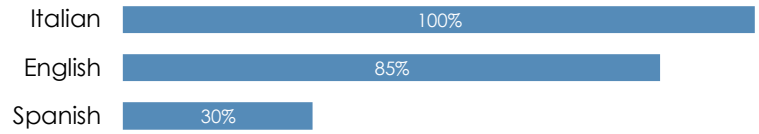
Scientific Outreach: Member of the Italian Society of Plant Pathology (SIPaV)

Laboratory: HMW DNA extraction**,** Nanopore sequencing, protein production and purification, RT-PCR, PCR (high throughput), cloning, plant transformation, fungal transformation, CRISPR-Cas9.

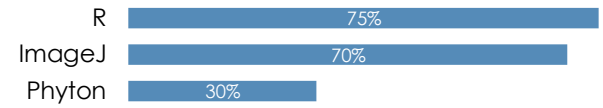
Microscopy: Confocal, Fluorescence.

Software: Adobe Photoshop, ImageJ, Prism, RStudio.

Languages:



Coding:



INTERNATIONAL MEETINGS

- **XXVI Congress of the Italian Phytopathological Society** (Verona, Italy, online) 15-17 September 2021.
  Oral presentation: Characterization of an effector gene in *Fusarium oxysporum*
- **XXVII Congress of the Italian Phytopathological Society** (Palermo, Italy) 21-23 September 2022.
  Oral presentation: Virulence and host-specificity in *Fusarium oxysporum* ff.spp. interactions.
- **ECFG16 European Congress of Fungal Genetics** (Innsbruck, Austria) 5-8 March 2023.
  Oral presentation at Fusarium workshop and poster: Virulence and host-specificity in *Fusarium oxysporum* ff.spp. interactions.
- **EFS16 European Fusarium Seminar** (Rome, Italy) 12-15 June 2023.
  Oral presentation: D protein specificity in *Fusarium oxysporum* ff.spp. interactions.
- **32nd Fungal Genetics Conference** (Asilomar, USA) 12-17 March 2024.
  Oral presentation at Fusarium workshop and poster: A novel broad-range effector from *Fusarium oxysporum* is able to induce cell death hijacking plant immune system

RESEARCH PAPERS

Luigi Faino, Valeria Scala, Alessio Albanese, Vanessa Modesti, Alessandro Grottoli, Nicoletta Pucci, Andrea Doddi, Alessia L'Aurora, Giuseppe tatulli, Massimo reverberi, Stefania Loreti. Nanopore sequencing for the detection and the identification of *Xylella fastidiosa* subspecies and sequence types from naturally infected plants. **Plant Pathology** (2021) DOI: https://doi.org.10.1111/ppa.13416