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Daniele Schiavi

Date of birth: 06/07/1996 | **Nationality:** Italian | **Gender:** Male | **Phone number:** (+39) 3460801636 (Mobile) | **Email address:** schiavi@unitus.it | **Email address:** danieleschiavi96@gmail.com | **Website:** https://orcid.org/ 0000-0003-2743-6413 | **Website:** https://scholar.google.com/citations?hl=it&user=Bzi7TDQAAAAJ | **Website:** https://www.scopus.com/authid/detail.uri?authorId=57226011801 | **LinkedIn:** https://www.linkedin.com/in/daniele-schiavi-131a01288/ | **Skype:** dedalus96@hotmail.it |

Address: Via Guerrazzi 100, 00015, Monterotondo, Italy (Home)

ABOUT ME

Young researcher in *Plant Pathology* with a PhD in *Plant and Animal Production Sciences* and a Master's degree in *Agricultural and Environmental Sciences* achieved with full marks, with a solid educational background in humanistic and scientific disciplines and a strong expertise in *Integrated Diseases Management*, *Nanotechnology in Agri-food*, *Phytobacteriology* and *Sustainable Management of Agro-ecosystems*.

WORK EXPERIENCE

01/03/2024 – CURRENT Viterbo, Italy
FIXED-TERM RESEARCHER (RTDA) UNIVERSITY OF TUSCIA

Full time fixed-term researcher position in Plant Pathology (SSD AGR/12):
- Research activity on sustainable and innovative control of bacterial plant pathogens
- Teaching activity in undergraduated degrees (L25)

06/2023 – CURRENT Viterbo, Italy
PHYTOSANITARY CONSULTANT LATIUM REGION

- Directive 2009/128 EC

Department Chamber of Commerce of Viterbo and Rieti | **Website** https://www.cefas.org/it/

05/2022 Rome, Italy
LECTURER CIRPS - INTERUNIVERSITY RESEARCH CENTRE FOR SUSTAINABLE DEVELOPMENT

Contract professor in the program *Boost for Africa*, for the sections:
- Natural Active Ingredients useful for Crop Protection
- The Power of Agro-wastes for sustainable Plant Protection

Website http://www.cirps.it/

Link https://eureka-gie.net/

06/2021 – CURRENT Rome, Italy
AGRONOMIST

Enrollment in Italian Register of Agronomists

Website http://www.conaf.it/

11/2020 – CURRENT Viterbo, Italy
EXPERT ON THE SUBJECT DEPARTMENT OF AGRICULTURAL AND FORESTRY SCIENCES, UNIVERSITY OF TUSCIA

Subject expert for the courses in the SSD AGR/12 (07/D1 - Plant pathology and entomology)

Website http://www.unitus.it/en/dipartimento/dafne

07/2020 – 08/2020 Viterbo, Italy
TRAINEE PHY. DIA. SRL

- In charge of the laboratory activities of propagation and maintenance of bacterial and fungal strains
- In charge of the maintenance and care of the experimental plant material

Website http://www.phydia.eu/

15/01/2019 – 15/06/2020 Viterbo, Italy
SCHOLARSHIP HOLDER DEPARTMENT OF AGRICULTURAL AND FORESTRY SCIENCES, UNIVERSITY OF TUSCIA

- Winner of the scholarship *Enhancement of lignocellulosic derivatives for phytoiatric applications* (Disp. 581/2018) as part of the project *NEMESI - NanotEcnologie chiMiche green per la protEzione Sostenibile delle plante* (PNR 2015-2020)
- Responsible for scientific research activities coordinated by Prof. G. M. Balestra, concerning characterization of cellulose obtained from wastes of agri-food chains, microbiological assays on phytopathogenic fungi and bacteria for the experimentation of organic nanoagrochemicals

Website http://www.unitus.it/en/dipartimento/dafne

05/2018 – 09/2018 Viterbo, Italy
PART-TIME EMPLOYEE TECHNICAL-SCIENTIFIC LIBRARY POLE, UNIVERSITY OF TUSCIA

- In charge of the classification and archiving of textbooks
- Loan operator, interlibrary loan, user assistance

Website https://www.unitus.it/it/dipartimento/sistema-bibliotecario-di-ateneo

10/2017 – 02/2018 Rome, Italy
TRAINEE STUDIO AGRONOMICO L. A. GENESIS SRL

- Drafting of feasibility studies, business plans and forest cutting plans
- Study of alternative cultivation chains for the enhancement of marginal lands and the diversification of farmers' income

Website http://www.lagenesis.it/

06/2017 – 09/2017 Rome, Italy
TRAINEE RESEARCH CENTER FOR AGRICULTURE AND ENVIRONMENT (CREA-AA)

- Laboratory analysis officer for the evaluation of the main aspects of the chemical fertility of the soil and mineral nutrition of fruit and vegetable species
- Assistance in the phases of sampling, study and statistical analysis of soil and plant tissue samples

Website https://www.crea.gov.it/en/web/agricoltura-e-ambiente

03/2017 – 09/2017 Viterbo, Italy
PART-TIME EMPLOYEE BOTANICAL GARDEN ANGELO RAMBELLI, UNIVERSITY OF TUSCIA

- In charge of collecting and classifying propagation material, repotting operations, weeding, census and reorganization of plant collections
- Assistance and order service during cultural events, market exhibitions and tourist visits international

Website http://www.ortobotanico.unitus.it/index.php/it/

EDUCATION AND TRAINING

08/2022 – 02/2023 Gainesville, United States
VISITING SCHOLAR Department of Plant Pathology, University of Florida

Exchange program under the mentorship of Dr. Prof. Jeff B. Jones

Address 2550 Hull Road, 32611, Gainesville, United States | **Website** https://plantpath.ifas.ufl.edu/ |

Field of study Applied and molecular bacteriology

22/09/2021 – 25/09/2022 Piacenza, Italy
ADVANCED TRAINING COURSE IN BIOSOLUTIONS Catholic University of the Sacred Heart

Address Via Emila Parmense, 84, 29122, Piacenza, Italy |

Website https://formazionecontinua.unicatt.it/formazione-biosolution-academy-a121pc09145-01 |

Field of study Technical-agronomic positioning skills of biosolutions, Strategic marketing and communication skills of biosolutions, Transversal knowledge of the main agronomic, regulatory and commercial processes for biosolutions

01/11/2020 – 31/10/2023 Viterbo, Italy
DOCTOR OF PHILOSOPHY IN PLANT AND ANIMAL PRODUCTION SCIENCES - XXXVI CYCLE University of Tuscia

Address Via S. Camillo de Lellis snc, 01100, Viterbo, Italy |

Website http://www.unitus.it/it/dipartimento/dafne/scienze-delle-produzioni-vegetali-e-animali/articolo/presentazione44 |

Field of study Valorization of lignocellulosic agroindustrial wastes, Nanotechnology in crop protection, Bio-based solutions in crop protection, Phytobacteriology

Final grade Optimum cum Laude |

Thesis Innovative Control of Plant Pathogenic Bacteria by Organic Polymers-Based Nanoagrochemicals

09/2018 – 09/2020 Viterbo, Italy
MASTER'S DEGREE IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES (LM69) University of Tuscia

Address Via S. Camillo de Lellis snc, 01100, Viterbo, Italy |

Website http://www.unitus.it/en/dipartimento/dafne/scienze-agrarie-e-ambientali1/articolo/presentazione11 |

Field of study Plant Production | **Final grade** 110/110 cum Laude |

Thesis Organic nanocompounds for olive tree protection in circular economy context

09/2015 – 09/2018 Viterbo, Italy
BACHELOR'S DEGREE IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES (L25) University of Tuscia

Address Via S. Camillo de Lellis snc, 01100, Viterbo, Italy |

Website http://www.unitus.it/en/dipartimento/dafne/scienze-agrarie-e-ambientali/articolo/presentazione19 |

Field of study Agroecology | **Final grade** 110/110 cum Laude |

Thesis Nanotechnologies and their potential application in plant protection

09/2010 – 07/2015 Monterotondo, Italy
HIGH SCHOOL DIPLOMA Liceo Gaio Valerio Catullo

- Class representative from 2nd to 5th year of high school
- School newspaper cartoonist
- 5th place in the *Certamen Varronianum* literary competition, XII edition

Address Via Tirso19, 00015, Monterotondo, Italy | **Website** https://www.liceocatullo.edu.it/ | **Field of study** Classical Lyceum |

Final grade 88/100 | **Thesis** Bright green - Intelligence and perception in plants

DIGITAL SKILLS

QGIS Basic Knowledge | MIcrosoft Office (Microsoft Office Word, Microsoft Office Excel, Microsoft Office Powerpoint) | Windows (Windows XP, Windows /vista, windows 8, windows 8.1, Windows 10) | AutoCAD, AutoCAD 3D | MacOS | DSAASTAT Knowledge | Bioinformatic database | NCBI tools (Genbank, BLAST)

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRENCH	A2	A2	A2	A2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

PUBLICATIONS

Cellulose Nanocrystal-Based Emulsion of Thyme Essential Oil: Preparation and Characterisation as Sustainable Crop Protection Tool

– 2023

Baldassarre, F.; **Schiavi, D.**; Di Lorenzo, V.; Biondo, F.; Vergaro, V.; Colangelo, G.; Balestra, G.M.; Ciccarella, G. Cellulose Nanocrystal-Based Emulsion of Thyme Essential Oil: Preparation and Characterisation as Sustainable Crop Protection Tool. *Molecules* **2023**, *28*, 7884. https://doi.org/10.3390/molecules28237884

Investigating Cellulose Nanocrystals' Biocompatibility and Their Effects on Pseudomonas syringae pv. tomato Epiphytic Survival for Sustainable Crop Protection

– 2023

Schiavi, D.; Taddei, A.R.; Balestra, G.M. Investigating Cellulose Nanocrystals' Biocompatibility and Their Effects on *Pseudomonas syringae* pv. *tomato* Epiphytic Survival for Sustainable Crop Protection. *Horticulturae* **2023**, *9*, 525. https://doi.org/10.3390/horticulturae9050525

Thymol-Nanoparticles as Effective Biocides against the Quarantine Pathogen Xylella fastidiosa – 2023

Baldassarre, F.; **Schiavi, D.**; Ciarroni, S.; Tagliavento, V.; De Stradis, A.; Vergaro, V.; Suranna, G.P.; Balestra, G.M.; Ciccarella, G. Thymol-Nanoparticles as Effective Biocides against the Quarantine Pathogen *Xylella fastidiosa*. *Nanomaterials* **2023**, *13*, 1285. https://doi.org/10.3390/nano13071285

Sustainable Protocols for Cellulose Nanocrystals Synthesis from Tomato Waste and Their Antimicrobial Properties against Pseudomonas syringae pv. tomato

– 2023

Schiavi, D.; Ronchetti, R.; Di Lorenzo, V.; Vivani, R.; Giovagnoli, S.; Camaioni, E.; Balestra, G.M. Sustainable Protocols for Cellulose Nanocrystals Synthesis from Tomato Waste and Their Antimicrobial Properties against *Pseudomonas syringae* pv. *tomato*. *Plants* **2023**, *12*, 939, doi.org/10.3390/plants12040939

Waste valorization by nanotechnology approaches for sustainable crop protection: a mini review – 2022

Schiavi, D.; Di Lorenzo, V.; Francesconi, S.; Giovagnoli, S.; Camaioni, E.; Balestra, G.M. Waste valorization by nanotechnology approaches for sustainable crop protection: A mini review. *IOP Conf. Ser. Mater. Sci. Eng.* **2022**, *1265*, 012009, doi: 10.1088/1757-899X/1265/1/012009

10.1088/1757-899X/1265/1/012009

Exploring cellulose nanocrystals obtained from olive tree wastes as sustainable crop protection tool against bacterial diseases

– 2022

Schiavi, D.; Francesconi, S.; Taddei, A.R.; Fortunati, E.; Balestra, G.M. Exploring cellulose nanocrystals obtained from olive tree wastes as sustainable crop protection tool against bacterial diseases. *Sci. Rep.* **2022**, *12*, 6149, doi:10.1038/s41598-022-10225-9.

Circular Hazelnut Protection by Lignocellulosic Waste Valorization for Nanopesticides Development – 2022

Schiavi, D.; Ronchetti, R.; Lorenzo, V. Di; Salustri, M.; Petrucci, C.; Vivani, R.; Giovagnoli, S.; Camaioni, E.; Balestra, G.M. Circular Hazelnut Protection by Lignocellulosic Waste Valorization for Nanopesticides Development. *Appl. Sci.* **2022**, *12*, 2604, doi:doi.org/10.3390/app12052604.

Inorganic nanomaterials usable in plant protection strategies – 2022

Francesconi, S.; **Schiavi D.**; Di Lorenzo, V.; Balestra, G.M. Inorganic nanomaterials usable in plant protection strategies. In *Nanotechnology-Based Sustainable Alternatives for the Management of Plant Diseases*; Balestra, G.M.; Fortunati, E.; Elsevier Ltd: Amsterdam, The Netherlands, **2022**; pp. 211-231, doi:10.1016/B978-0-12-823394-8.00005-6.

A green nanostructured pesticide to control tomato bacterial speck disease – 2021

Schiavi, D.; Balbi, R.; Giovagnoli, S.; Camaioni, E.; Botticella, E.; Sestili, F.; Balestra, G.M. A green nanostructured pesticide to control tomato bacterial speck disease. *Nanomaterials* **2021**, *11*, 1852, doi:10.3390/nano11071852.

Organic Nanoparticles from Lignocellulosic Agricultural Residues for Plant Protection Applications – 2021

Di Lorenzo, V.; **Schiavi, D.**; Petrucci, C.; Balestra, G.M. Organic Nanoparticles from Lignocellulosic Agricultural Residues for Plant Protection Applications. *AIP Conf. Proc.* **2021**, *2416*, 020013, doi:10.1063/5.0069309.

Preliminary results towards the mechanical characterization of cellulose nanofibers using HarmoniX mode atomic force microscopy

– 2021
Singh, T.; Atanasio, P.; **Schiavi, D.**; Lorenzo, V. Di; Scaramuzzo, F.A.; Passeri, D.; Balestra, G.M.; Rossi, M. Preliminary results towards the mechanical characterization of cellulose nanofibers using HarmoniX mode atomic force microscopy. *AIP Conf. Proc.* **2021**, *2416*, 020011, doi:10.1063/5.0068542.

Antibacterial activity of coumarin as an innovative organic control strategy for Xanthomonas euvesicatoria pv. euvesicatoria

– 2021
Schiavi, D.; Francesconi, S.; Bischetti, G.; Giovanale, G.; Fortunati, E.; Balestra, G.M. Antibacterial activity of coumarin as an innovative organic control strategy for Xanthomonas euvesicatoria pv. euvesicatoria. *J. Plant Dis. Prot.* **2021**, doi: 10.1007/s41348-021-00534-y.

CONFERENCES AND SEMINARS

18/09/2023 – 22/09/2023 – Faculty of Civil and Industrial Engineering, Sapienza University of Rome
NanoInnovation 2023 - Conference & Exhibition
- Member of the Programme Committee

Link https://www.nanoinnovation2023.eu/home/index.php/programme/workshops/ws-iii-nanotech-agri-food

18/09/2023 – 20/09/2023 – Naples
SIPAV NATIONAL CONGRESS XXVIII edition - Italian Society of Plant Pathology
- Participation as selected speaker: *Studying the diversity among Xanthomonas euvesicatoria strains collected from pepper plants in Southern Italy*, **Schiavi D.**, Subedi A., Goss E., Jones J.B., Balestra G.M. (*Young researcher in formation* award)

Link https://www.sipav2023napoli.it/#documenti

21/08/2023 – 25/08/2023 – Lyon
12th International Conference of Plant Pathology (ICPP)
- Participation as Chairman in the session: *Particle based delivery of biomolecules for crop protection*
- Participation as Selected Speaker: *Cellulose Based Nanoparticles To Deliver Active Natural Compounds - A Successful Case In The Management Of The Tomato Bacterial Speck Disease*, **Schiavi D.**, Francesconi S., Giovagnoli S., Camaioni E., Sestili F., Balestra G.M.
- Poster Publication: *Cellulose Nanocrystals as an Innovative Tool to Control Xanthomonas euvesicatoria pv. perforans*, **Schiavi D.**, Jain M., Minsavage J.V., Jones J.B., Balestra G.M.
- Poster Publication: *A novel nanoparticle based formulation for the management of kiwifruit bacterial canker and olive knot while boosting the hosts innate immunity*, Francesconi S., **Schiavi D.**, Sestili F.,Balestra G.M.

Link https://www.icpp2023.org/programme/abstracts-book

19/08/2023 – 20/08/2023 – Lyon
4th European Conference on Xylella fastidiosa
- Poster publication: *Achievements, Challenges And Future Perspectives In Controlling The Menace Of Xylella Fastidiosa By Organic Nanocompounds – The Case Of Ancosix Project*, Muawiya M.A, **Schiavi D.**, Francesconi S., Rongai D., Valentini F., Elbeaino T., Balestra G.M.

Link https://www.efsa.europa.eu/en/events/4th-european-conference-xylella-fastidiosa-researching-sustainable-solutions

29/06/2023 – 30/06/2023 – University of Udine
Nanotechnology in Agriculture - Summer School

Link https://nanoagri.uniud.it/

24/10/2022 – 25/10/2022 – University of Central Florida, Orlando
MISA 2022 - Materials Innovation for Sustainable Agriculture
- Participation as Invited Speaker: *Organic Nanomaterials to Control Plant Bacterial Diseases*, **Schiavi D.**, Balestra G. M., Jones, J. B., session Plant Disease Management - Young Leaders

Link http://nanoscience.ucf.edu/misa/symposium.html

21/09/2022 – 23/09/2022 – University of Palermo
SIPAV NATIONAL CONGRESS XXVII edition - Italian Society of Plant Pathology
- Participation as speaker: *Cellulose Nanocrystals as innovative and sustainable tool to control bacterial plant pathogens*, **Schiavi D.**, Balestra G.M., session Molecular plant-pathogen interaction

Link https://www.sipav.org/en/74/Abstracts_of_papers/

19/09/2022 – 23/09/2022 – Faculty of Civil and Industrial Engineering, Sapienza University of Rome

NanoInnovation 2022 - Conference and Exhibition

- Member of the Programme Committee

Link https://www.nanoinnovation2022.eu/home/

14/07/2022 – 15/07/2022 – Libera Università di Bolzano

Aissa#Under40 - Italian Association of the Agricultural Science Societies

- Poster publication: Cardacino A., Francesconi S., **Schiavi D.**, Balestra G.M., *Ecosustainable approaches to understand and contain the kiwifruit decline syndrome in Italy*

Link https://www.aissaunder40.com/

03/07/2022 – 08/07/2022 – University of Perugia, Assisi

14th International Conference on Plant Pathogenic Bacteria

- Participation as Selected Speaker: *Waste valorization for circular protection of tomato by a nanotechnological approach*, **Schiavi D.**, Di Lorenzo V., Ronchetti R., Giovagnoli S., Camaioni E., Balestra G. M., session Disease Control and Prevention
- Poster publication: **Schiavi D.**, Biondo F., Baldassarre F., Rescio L., Ciccarella G., Balestra G. M., *Novel CNC and thyme extract-based nanocapsules to control the olive knot causal agent*
- Poster publication: **Schiavi D.**, Canzoniere P., Butler M., Poulter R., Spinelli F., Mazzaglia A., Scortichini M., Balestra G. M., *Evaluation of copper resistance of Pseudomonas syringae pv. actinidiae populations in Italy*
- Poster publication: Francesconi S., **Schiavi D.**, Ronchetti R., Camaioni D., Giovagnoli S., Sestili F., Balestra G. M., *In vitro antibacterial activity of a novel naotechnology based green agrochemical to control three Pseudomonas spp. bacterial plant pathogens*

Link https://www.icppb2020.it/

30/06/2022 – 01/07/2022 – University of Tuscia, Viterbo

Nanotechnology in Agriculture - Summer School

- Member of the Programme Committee

Link http://www.unitus.it/en/dipartimento/dafne/summer-school-/articolo/nanotechnology-in-agriculture

27/09/2021 – 30/09/2021 – Web Workshop

X International Symposium on Kiwifruit

- Poster Publication: Biondi E., **Schiavi D.**, Perez Fuentealba S., Kuzmanovic N., Minardi P. and Balestra G.M. (2022). *Bacillus amyloliquefaciens subsp. plantarum strain D747 to control the kiwifruit bacterial canker disease*. Acta Hortic. 1332, 95-102 doi:10.17660/ActaHortic.2022.1332.13.

Link https://www.ishs.org/ishs-article/1332_13

21/09/2021 – 24/09/2021 – Faculty of Civil and Industrial Engineering, Sapienza University of Rome

NanoInnovation 2021 - Conference & Exhibition

- Member of the Programme Committee
- Participation as speaker: Nanotechnology for wastes valorization in Mediterranean tree and industrial crops sustainable protection strategies, workshop *AgriNanoTechniques: Nanomaterials for products and application in agriculture - ENMs and Plant Protection*

Link https://www.nanoinnovation2021.eu/home/

15/09/2021 – 17/09/2021 – Web Workshop

SIPAV NATIONAL CONGRESS XXVI edition - Italian Society of Plant Pathology

- Poster Publication: Francesconi S., Di Lorenzo V., **Schiavi D.**, Balestra G.M. *Exploiting the synergist properties of chitosan and gallic acid functionalized with cellulose nanocrystals and starch to manage main Italian fungal and bacterial plant diseases.* Abstracts of presentations at the XXVI Congress of the Italian Phytopathological Society (SIPaV). *J Plant Pathol* 103, 1087–1134 (2021). https://doi.org/10.1007/s42161-021-00942-x
- Poster Publication: **Schiavi D.**, Di Lorenzo V., Salustri M., Petrucci C., Balestra G.M. *Potential application in crop protection of lignocellulosic nanocarriers obtained from hazelnut residues.* Abstracts of presentations at the XXVI Congress of the Italian Phytopathological Society (SIPaV). *J Plant Pathol* 103, 1087–1134 (2021). https://doi.org/10.1007/s42161-021-00942-x

Link https://link.springer.com/article/10.1007/s42161-021-00942-x

01/07/2021 – 02/07/2021 – Web Workshop

Aissa#Under40 - Italian Association of the Agricultural Science Societies

- Poster Publication: Francesconi S., Di Lorenzo V., **Schiavi D.**, Balestra G.M. *First steps on exploiting the synergist properties of chitosan and gallic acid to manage main Italian fungal and bacterial plant diseases: innovative employment of natural compounds and nanotechnologies.*
- Poster Publication: **Schiavi D.**, Balbi R., Giovagnoli S., Camaioni E., Botticella E., Sestili F., Balestra G.M. *Use of microparticles of chitosan hydrochloride, starch and cellulose nanocrystals, for the reduction of copper salts in the control of tomato bacterial spot.*
- Poster Publication: **Schiavi D.**, Rescio L., Balestra G.M. *Antimicrobial activity of different plant extracts obtained through supercritical CO_2 respect to olive tree plant pathogens*

Link https://agrariaweb.uniss.it/it/avvisi/convegno-aissaunder40-book-abstracts

16/12/2020 – Web Workshop

Young Scientist for Plant Health - by SIPAV, SEI, SIGA, SIBV

- Poster Publication: **Schiavi D.**, Giovagnoli S., Camaioni E., Botticella E., Sestili F., Balestra G.M. (2020). *Novel nanostructured compound for sustainable control of tomato bacterial speck disease*. Web Workshop "Young Scientists for Plant Health" December 16, 2020. ISBN 978-88-944843-1-1

Link http://www.geneticagraria.it/congress_abstract.asp?a_pag=4&Indice=322&id=66

24/09/2020 – University of Tuscia, Viterbo

National Day of Sustainability and Bioeconomy

- Participation as a speaker: Session *Enhancement of lignocellulosic waste to obtain innovative pesticides*, **Schiavi D**., Di Lorenzo V., Balestra G.M.

15/09/2020 – 18/09/2020 – Faculty of Civil and Industrial Engineering, Sapienza University of Rome

NanoInnovation 2020 - Conference & Exhibition

- Participation as speaker: Thematic symposium "Nanocellulose Application", session *Organic nanoparticles from lignocellulosic agricultural residues for plant protection applications*, Di Lorenzo V., **Schiavi D.**, Balestra G. M.

09/07/2019 – 11/07/2019 – Department of Agricultural and Forestry Sciences, University of Tuscia, Viterbo

4th International Symposium on Biological Control of Bacterial Plant Diseases

- Poster Publication: Euticchio G., Fortunati E., Camaioni E., Francesconi S, **Schiavi D.**, Balestra G.M., Giovagnoli S. (2019). *Development of new delivery systems based on derivatized cellulose nanocrystals.* 4th International Symposium on Biological Control of Bacterial Plant Diseases. *J Plant Pathol* 101, 849–883 (2019). https://doi.org/10.1007/s42161-019-00395-3.
- Poster Publication: Francesconi S, **Schiavi D.**, Balestra G.M. (2019). *Screening of natural active compounds as an eco-sustainable weapon against different bacterial and fungal plant pathogens.* 4th International Symposium on Biological Control of Bacterial Plant Diseases. *J Plant Pathol* 101, 849–883 (2019). https://doi.org/10.1007/s42161-019-00395-3.

Link https://link.springer.com/article/10.1007/s42161-019-00395-3

03/06/2019 – University of Tuscia, Viterbo

Sustainable Development Festival

- Participation as speaker: "Sustainability and Circular Economy" study day, session *Basic research, technology transfer and sustainability for food safety and the protection of agricultural crops*, Balestra G.M., Fortunati E., Francesconi S., **Schiavi D.**

23/05/2019 – University of Tuscia, Viterbo

National Day of Sustainability and Bioeconomy

- Participation as speaker: Session *Sustainable Nanotechnologies for Plant Protection and food safety*, Balestra G.M., Fortunati E., Francesconi S., **Schiavi D.**

05/02/2019 – 04/04/2019 – Tuscania, Viterbo

Precision Agriculture Marketing Management

- Participation in the demonstration activity organized by ISMACO as part of Measure 1.2.1 of the PSR Regione Lazio 14/20 (Det. Reg. n. G00293 of 12/01/18)

PROJECTS

01/05/2023 – 01/05/2026

PERCIVAL The PERCIVAL (Processi di EstRazione di bioprodotti da sCarti agroIndustriali e VALorizzazione in cascata) project concerns the development of innovative processes for the pre-treatment, extraction/separation and subsequent valorisation of agro-industrial waste, using a "cascade" biorefinery approach to obtain bioactive

compounds (e.g. antioxidants, polyphenols), products chemicals/building blocks (lactic acid) and materials (e.g. high-tech fibres, nutraceuticals, PLA). Biofuels (biomethane) and agricultural products (e.g. soil improvers, biochar, biostimulants) will be obtained from the transformation residues/by-products. Finally, the economic and environmental sustainability of the identified supply chains will be assessed and some business cases will be developed for the products obtained. Funded by MIUR – Ministero dell'Istruzione, dell'Università e della Ricerca – PNR 2015-2020 – PON 2017.

Link https://www.gazzettaufficiale.it/eli/gu/2022/04/22/94/sg/pdf

28/12/2022 – 27/12/2025
ANCoSIX The ANCOSIX (Approcci Nanotecnologici per un Controllo Sostenibile e Innovativo di *Xylella)* project aims at sustainable containment of Xylella fastidiosa through the development of multiple and multifunctional control strategies based on the use of natural bactericides, harmless to plants and animals (punicalangin, a molecule extracted from pomegranate peels, antimicrobial peptides and bacteriophages), on the application of innovative techniques, such as nanotechnologies, and on the recovery and valorisation of waste products in implementation of the principles of circular agriculture. Funded by MASAF – Ministero dell'Agricoltura, della Sovranità Alimentare e delle Foreste.

Link https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/19168

19/05/2019 – 18/11/2022
NEMESI The NEMESI (NanotEcnologie chiMiche green per la protEzione Sostenibile delle plante) project is aimed at the creation of biobased / biomaterial products from renewable (biomass) and recycled sources with a view to fighting the spread of several plant pathogens that have been severely affecting the whole economic and agriculture system in Italy. The intensification of agricultural crops and high market demands have forced the industry to intensify the use of chemicals to limit the effects of plant diseases, which has had a strong impact on the environment, food quality and human health. The proposed material in NEMESI is Nanocellulose, that is supposed to be used as a carrier of innovative agrochemicals based on nanotechnology approaches. Funded by MIUR – Ministero dell'Istruzione, dell'Università e della Ricerca – PON-PNR 2015-2020.

Link http://www.ponricerca.gov.it/

NETWORKS AND MEMBERSHIPS

2022 – CURRENT
APS- American Phytopathological Society

2020 – CURRENT
SIPaV - Italian Phytopatological Society Journal of Plant Pathology (Young editorial board)

Link http://www.sipav.org/

2020 – CURRENT
AIPP - Italian Association for Plant Protection

Link http://www.aipp.it/it/home/1

HONOURS AND AWARDS

06/12/2022
IV Annamaria Vercesi Award - Best Thesis in Plant Pathology – AIPP - Italian Association for Plant Protection

Link https://disaapress.unimi.it/ecco-i-vincitori-del-premio-vercesi/

COMMUNICATION AND INTERPERSONAL SKILLS

FCE, Level B2 in English (European Certification by Cambridge Institute) B2 certification for the English language by *First Certificate exam in English* (2014)

Spirit of adaptation and great collaborative attitude Sense of sacrifice, empathy and respect for diversity gained in experiences in contact with customers, public sector, collaborators in various work and educational fields

MANAGEMENT AND LEADERSHIP SKILLS

Creative problem-solving skills Ability to manage unexpected events in an alternative and positive way, matured creative spirit and critical sense in work, educational and personal experiences

Sense of responsibility Strong sense of responsibility and ability to manage human and technical resources gained through professionalizing experience, training internships, volunteering and civil service

ORGANISATIONAL SKILLS

Ease of learning and ability to perform multiple physical and mental tasks at the same time Ability to optimize time and resources to achieve multiple objectives simultaneously and stimulus in coming into contact with new realities, developed in the training and work paths followed

Practical sense Ability to manage technical and economic resources, mental elasticity and willingness to face reality new ones, matured in the course of work and training experiences

DRIVING LICENCE

Driving Licence: B

SOCIAL AND POLITICAL ACTIVITIES

2014 – CURRENT Monterotondo (RM)
Donor and Voluntary Member of AVIS

- Participation as a donor and voluntary member in the organizing board of the *Association of Voluntary Italian Blood Donors* club in Monterotondo

2005 – CURRENT Monterotondo (RM)
Scout Educational Path - AGESCI/CNGEI

- Participation as educator and voluntary member in the *Association of Italian Catholic Guides and Scouts* and National Corps of Italian Scouts and Guides
- Development of relational skills with children and disadvantaged social classes, participation in activities in the field of volunteering and civil service, development of survival and adaptation skills

HOBBIES AND INTERESTS

Carpentry activities Ability to use the main carpentry, joinery and home economics tools

Naturalistic interest Ability in the recognition of spontaneous flora, in the topographical orientation and knowledge of diversity ecosystems of the mountainous and hilly territories

Art and Literature Interest and knowledge in various fields of pop culture and fantasy, science fiction and cinematography

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I give consent to process my data with the purpose of the recruitment process, in accordance to the Regulation of the European Parliament 679/2016, regarding the protection of natural persons and free movement of such data.



Daniele Schiavi