



TOMMASO SANSON

Nationality: Italian **Date of birth:** 16/10/1999 **Gender:** Male

Phone number: (+39) 3311096986

Email address: sanson.tommaso@gmail.com

Email address: tommaso.sanson@univr.it

EDUCATION AND TRAINING

PhD Student in Smart Agrifood Sciences

University of Verona [01/10/2024 – Current]

City: Verona | **Country:** Italy

Project title: *Development of formulations based on small RNAs and nanomaterials for the sustainable control of pathogens in fruit species* (key words: SIGS, fungal pathogens, RNA silencing).

Scientific supervisor: Prof. Barbara Molesini.

Scholarship funded by the Department of Biotechnology within the project "Dipartimento di eccellenza".

Summer School: Hands-on Advanced Methods and Techniques in Plant science and Biotechnology

Aarhus University - Research Center Flakkebjerg [19/08/2024 – 30/08/2024]

City: Flakkebjerg | **Country:** Denmark | **Website:** <https://kursuskatalog.au.dk/en/course/124948/Hands-on-Advanced-Methods-and-Techniques-in-Plant-science-and-Biotechnology> | **Type of credits:** ECTS | **Number of credits:** 5

Two-week intensive course combining practical exercises, theoretical instruction, and lectures, focused on cutting-edge techniques and methods in plant biotechnology research to address challenges in agricultural production.

Main activities:

- Gene expression analysis (qPCR and ddPCR)
- Plant transformation (CRISPR/Cas9 system, particle bombardement, *Agrobacterium*)
- 3D bio-imaging of plant cells by fluorescence and confocal laser microscopy
- Protein expression in *Pichia Pastoris*
- Mutant detection and genotyping
- Carbohydrates in grain

Summer school: Evolution of French agriculture: strategies to face climate change

University of Bordeaux and the French National Institute for Agronomy and Environment (INRAE) [08/07/2024 – 18/07/2024]

City: Bordeaux | **Country:** France | **Website:** <https://bss-frenchagri.u-bordeaux.fr/en/> | **Field(s) of study:** Agriculture

Integrative education program combining theoretical classes, practical work, and site visits, offering scientific insight into French agricultural challenges.

The program focuses on developing strategies to enhance agricultural sustainability, addressing critical environmental issues such as climate change and food security.

Master's degree in Agricultural Science and Technology - Plant health track

University of Padua [01/09/2021 – 05/12/2023]

Address: Viale dell'Università, 16, 35020 Legnaro (Italy) | **Website:** <https://www.agrariamedicinaveterinaria.unipd.it/offerta-didattica/corsi-di-laurea-magistrale?tipo=LM&ordinamento=2017&key=AG0063> | **Field(s) of study:**

Agriculture | **Final grade:** 110/110 cum laude | **Type of credits:** CFU | **Number of credits:** 120 | **Thesis:** Heterologous expression of ZmWBC33 in Arabidopsis and protein localization with green fluorescent protein (GFP)

Degree class: LM-69 Agricultural sciences and technologies

Main courses:

- Biology and disease control
- Biotechnology in plant protection
- Phytopathological virology and bacteriology
- Plant physiology
- Plant breeding

Phytosanitary Advisor

AVEPA (Veneto Agency for Payments in Agriculture) [23/03/2023]

Valid until: 22/03/2028

Certificate of authorisation to provide advice on the sustainable use of plant protection products issued by AVEPA following attendance of a specific 32-hour course organised by Veneto Agricoltura and passing a written and oral examination.

Regulatory reference (Italian law): Legislative Decree No 150/2012, Art. 8.3.

Summer School: Pathogens, Parasites and their Hosts: Ecology, Molecular Interactions and Evolution

Euroleague for Life Sciences (ELLS) [04/07/2022 – 21/07/2022]

Address: University of Hohenheim, 70599 Stuttgart (Germany) | **Website:** <https://www.euroleague-study.org/en/pph> | **Field(s) of study:** Agriculture, forestry, fisheries and veterinary | **Final grade:** B | **Type of credits:** ECTS | **Number of credits:** 7.5

Lectures and laboratory experiments focus on the ecology, molecular interactions, and evolution of pathogen-host relationships in animals, plants, and microorganisms.

The aim is to understand similarities and peculiarities across different biological systems.

Summer School: Information Technologies and Expert Systems in Plant Protection

Euroleague for Life Sciences (ELLS) [26/06/2022 – 02/07/2022]

Address: University of Hohenheim Ihinger Hof Research Station, 71272 Renningen (Germany) | **Website:** https://www.euroleague-study.org/en/information_technologies | **Field(s) of study:** Agriculture, forestry, fisheries and veterinary | **Final grade:** B+ | **Type of credits:** ECTS | **Number of credits:** 6

Lectures and field activities to introduce into the use of sensor systems to identify weed distribution and biotic stresses caused by pathogens in arable fields.

Sensors are mounted on GPS-controlled tractors and Unmanned Aerial Vehicles- Collected data are used to create decisions rules and application maps for site-specific hoeing, harrowing and spraying.

Erasmus+ Study

L'institut Agro Montpellier [23/01/2022 – 24/04/2022]

Address: 2 place Pierre Viala, 34060 Montpellier (France) | **Website:** <https://en.institut-agro-montpellier.fr/> | **Field(s) of study:** Agriculture, forestry, fisheries and veterinary | **Type of credits:** ECTS | **Number of credits:** 21

Period of study at "L'Institut Agro Montpellier" in Montpellier (France), during the second semester of the first year of the Master in Agricultural Science and Technology - Plant health track.

Courses attended:

- Designing new crops for the future
- Environmental Data Processing and Analysis
- Mobile and Web Management of Environmental Data

Bachelor's Degree in Agricultural Science and Technology

University of Padua [17/09/2018 – 21/07/2021]

Address: Viale dell'Università, 16, 35020 Legnaro (Italy) | Website: <https://www.dafnae.unipd.it/offerta-didattica/corsi-di-laurea-triennale?tipo=L&ordinamento=2017&key=AG0056> | Field(s) of study: Agriculture, forestry, fisheries and veterinary | Final grade: 110/110 cum laude | Type of credits: CFU | Number of credits: 180 | Thesis: Survey on the use of the plant protection products in the province of Belluno

Degree class: L-25 Agricultural and forestry sciences and technologies

Main courses:

- Biology
- Plant biochemistry and physiology
- Plant genetics
- Agronomy
- Agricultural entomology
- Plant pathology
- Agricultural microbiology

Secondary School Diploma

Liceo Statale Scientifico "Giorgio Dal Piaz" [08/2014 – 07/2018]

Address: Via Cristoforo Colombo, 18, 32032 Feltre (Italy)

WORK EXPERIENCE

Post-graduate research traineeship

University of Girona - Center for Innovation and Development in Plant Health (CIDSAV) [05/02/2024 – 28/06/2024]

City: Girona | Country: Spain

Postgraduate research traineeship funded by the 'Erasmus+ for traineeship' programme at the 'Plant Pathology-CIDSAV' research group under the supervision of Professor Anna Bonaterra Carreras.

The work plan included the following tasks:

1. Evaluation of antibacterial and bactericidal activity of peptide-based compounds against *Xylella fastidiosa* by contact assay, DNA extraction, viability qPCR (v-qPCR) and CFU counting.
2. Studies on the mechanism of action of selected peptides in key processes of *X. fastidiosa* pathogenesis/ virulence, such as in motility, attachment or biofilm formation assays. Furthermore, the plant defence induction activity of the selected peptides was tested in *Nicotiana benthamiana* plants. The transcriptional level of defence-related genes is assessed by qPCR in plants treated and untreated with the peptides.
3. Evaluation of the efficacy of peptide compounds against *X. fastidiosa* by endotherapy in the model plant *Prunus dulcis*.

Activities involving the handling of *X. fastidiosa* were carried out in greenhouses and S2 biosafety laboratories, according to European quarantine plant pathogen regulations.

Bartender and waiter

Alpina1954 Restaurant and Pizzeria [01/11/2023 – 31/01/2024]

City: Pedavena | Country: Italy

The role of bartender and waiter involved a range of skills to ensure the best possible customer experience. These included preparing drinks, such as tapping beer and creating cocktails, as well as taking care of desserts and table service for wines and other beverages, as well as dishes.

In addition to technical skills, good job performance also implied courtesy towards customers, social skills, good communication and organisational skills with colleagues, as well as quick and precise execution of tasks.

Guide

La Birreria S.r.l. [06/2017 – 01/2022]

City: Pedavena (BL) | Country: Italy

The role of the guide at the "Fabbrica in Pedavena" provides for the reception and accompaniment of tourists inside the beer production departments where he tells the more than one-hundred-year history of the factory and illustrates ancient machinery and equipment; describes the production process, from raw materials to finished product; at the end of the visit he pours the beer by providing information regarding the technique and the necessary waiting times. This activity requires technical and scientific knowledge regarding beer, historical knowledge to be linked to the territory in which the factory still has its roots today and organizational and communication skills with tourists of all kinds.

Bartender

La Birreria S.r.l. [06/2017 – 05/01/2022]

City: Pedavena (BL) | Country: Italy

Position held at the local "Bottega Dolomitica" and at the "Alpine hut" located in the park of the brewery itself. The role includes the preparation of drinks, in particular the tapping of beer, but for a good performance of the work also courtesy with customers, sociability, communication and organizational skills with colleagues, speed and precision in the execution of tasks.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING A2 READING A2 SPOKEN PRODUCTION A1

SPOKEN INTERACTION A2

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

DIGITAL SKILLS

Microsoft Office / Google / AutoCAD / Social networks / E-mail

PROJECTS

[11/06/2023 – 20/06/2023]

"Let's not be afraid of Youth participation activities" Project co-funded by the European Erasmus+ programme held in Jindřichův Hradec (Czech Republic) aimed at young people interested in learning more about youth participation in an international context.

[29/07/2018 – 03/08/2018]

"Weaving a Europe of Solidarity" - Youth Exchanges supported by Erasmus+ Project conceived and implemented by "AMAC (Associatiò Municipal d'Agermanament de Carcaixent) asociation" and co-financed by the Erasmus + program of the European Union in cooperation with the partner cities: Carcaixent (Spain), Bagnols (France), Feltre (Italy), Braunfels (Germany), Newbury (England), Eeklo (Belgium), Kiskunfélegyháza (Hungary) and Zamosc (Poland).

The aims and main objectives of the project are: the promotion of volunteering and solidarity, the comparison between young people and the knowledge and dissemination of the cultural heritage of the cities as regards the fabric.

DRIVING LICENCE

Driving Licence: AM

Driving Licence: B

NETWORKS AND MEMBERSHIPS

[30/08/2021 – Current]

Member of the bank "Cassa Rurale Dolomiti" The members are responsible for outlining the guidelines, approving the financial statements, the allocation of profits and the elected offices.

Source: <https://www.crdolomiti.it/soci/diritti-e-doveri/>

CONFERENCES AND SEMINARS

[17/06/2024 – 20/06/2024] Campus Montilivi - University of Girona

Guest speaker at the "VIII Conference of Pre-doctoral Researchers of the UdG" Oral presentation as guest speaker of a section of my master's thesis entitled: "*Advancing Arabidopsis hydroponics for root exudates collection and indirect strigolactones assay via Phelipanche ramosa germination*" at the VIII Predoctoral Conference of the University of Girona.

The abstract of the lectures will be published in an electronic book with an ISBN.

Link: <https://esdeveniments.udg.edu/109942/detail/viii-conference-of-pre-doctoral-researchers-of-the-udg.html>

[10/06/2024 – 12/06/2024] Lucca

7th Edition School in Physiological Plant Pathology Participation at the "7th Edition of the School in Physiological Plant Pathology" organised by the working group "Molecular plant-microbe interaction" of the Italian Phytopathological Society.

Link: https://www.sipav.org/en/46/7°_Scuola_di_Fisiopatologia_vegetale_-_Lucca,_10-12_giugno_2024/450/

[25/03/2021 – 29/03/2021] Legnaro (PD)

Regulations and procedures for organic conversion - Veneto Agriculture Participation at the course that is part of the training program for consultants who operate or intend to operate under Measure 2 RDP (Rural Development Plan) "*Consultancy, replacement and assistance services for farm management*" lasting a total of 8 hours with final assessment test and release of the certificate of attendance with profit.

[11/09/2020 – 13/09/2020] Villa Gregoriana S. Marco - Auronzo di Cadore (BL)

Inhabit the earth. It is our common home. Focus: Mountains Participation at the course organised by the 'Casacomune aps' association. Participation in collaboration with the GAL Prealpi e Dolomiti.

The course content focused on aspects that are bringing about dramatic changes for the whole of humanity and nature as a whole: global warming, the loss of natural and social biodiversity, the food chain, environmental migrations. At the same time, the course offered points for thought on possible new lifestyles and the ethical and spiritual roots underlying ecological conversion, and delved in particular into issues related to air pollution, biodiversity, the food supply chain as an opportunity for development and employment, issues related to land abandonment and possible scenarios for a harmonious repopulation, with services tailored to its specific characteristics.

HONOURS AND AWARDS

[04/06/2024] ImageLine - Accademia dei Georgofili

AgroInnovation Thesis Award - 7th Edition Award for the best thesis in the field of "Varietal Innovation and Genomics" granted by Image Line s.r.l. in collaboration with the Accademia dei Georgofili. The award is based on specific evaluation criteria, such as clarity of presentation, scientific method, intuitive vision, innovation and impact, as well as the contribution of the presented studies to achieving the goals of the CAP 2023-27.

Additionally, the thesis will be presented on the 26th of June 2024 at the at the headquarters of the Accademia dei Georgofili in Florence and a summary article of the thesis, in a popular science format (5000 characters), will be published on the portals of the Image Line network.

FPB - Cassa Rurale di Fassa Primiero e Belluno

Scholarship Scholarship awarded for obtaining a master's degree in the 2022/2023 academic year with a score of 105/110 or higher.

FPB - Cassa Rurale di Fassa Primiero e Belluno

Scholarship Scholarship awarded for obtaining a master's degree in the 2020/2021 academic year with a score of 105/110 or higher.

PUBLICATIONS

[2024]

Mais e strigolattoni: il ruolo del gene ZmWBC33

COMMUNICATION AND INTERPERSONAL SKILLS

Confident verbal communication skills

Team-player, accustomed to work in groups

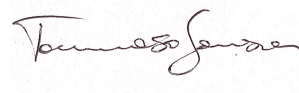
ORGANISATIONAL SKILLS

Good at prioritizing tasks

Good at dealing with time and pressure

Good capacity of respecting deadlines

06/10/2024



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