

# CURRICULUM VITAE

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## 1. FULL NAME AND DATE

- Tonin Lorenzo
- Male
- 11/01/2023

## 2. DATE AND PLACE OF BIRTH, NATIONALITY

- 23/09/1998, Tradate (Va)
- Italian

## 3. EDUCATION AND DEGREES AWARDED

- **Master Double Degree student:**
  - **MASTER STUDENT IN BIOTECHNOLOGY (DOUBLE DEGREE PROGRAM)** – UCT Prague; Faculty of Food and Biochemical Technology; Biotechnology and Food Science. Period: 05/09/2021 – 21/09/2022; Graduation: 110/110 Cum laude.
  - **MASTER STUDENT IN BIOTECHNOLOGY** – Università degli studi dell'Insubria; Biotechnology and Life Science Department; Molecular and Industrial Biotechnology. Period: 01/10/2020 – 21/09/2022; Graduation: 110/110 Cum laude.
- **BACHELOR STUDENT IN BIOTECHNOLOGY** – Università degli studi dell'Insubria; Biotechnology and Life Science Department; Biotechnology, curriculum Cellular and Molecular. Period: 01/10/2017 – 22/07/2020; Graduation: 110/110 Cum laude.

## 4. OTHER EDUCATION AND TRAINING, QUALIFICATIONS AND SKILLS

- **SEMINAR: SCIENCE AND SOCIAL MEDIA (16/12/2022 and 21/12/2022).** – Università degli studi dell'Insubria; Biotechnology and Life Science Department; Event organizer: Prof. Bossi (Università degli studi dell'Insubria).
  - Science communication and social media. Impact and regulation of cellular senescence on (chondrogenic) differentiation of human mesenchymal progenitors (Roberto Narcisi, Erasmus University, Rotterdam).
  - Science and social networks: an opportunity to be seized in any case. Function and dynamics of protein N-terminal modifications in health and disease (Carmela Giglione, University Paris-Saclay, France).
- **SEMINAR: TRENDS IN BIOMOLECULAR SCIENCES (01/12/2022).** – Università degli studi dell'Insubria; Biotechnology and Life Science Department; Event organizer: Prof. Marinelli (Università degli studi dell'Insubria).

- Challenges and opportunities for antibiotic discovery. Sequence to structure: mining for ribosomal peptide natural products (Dr. Andrew Truman, The John Innes Centre, Norwich, UK).
- **SEMINAR: THE MULTIFACETED FUNCTIONS OF AUTOPHAGY IN ANIMALS AND PLANTS (08/04/2022)** – Università degli studi dell'Insubria; Biotechnology and Life Science Department; Event organizer: Prof. Gianluca Tettamanti and Dr. Guido Domingo (Università degli studi dell'Insubria).
  - The role of Ubiquitin in Autophagy: from Signalling to Disease (Prof. Gian Maria Fimia (Università La Sapienza)).
  - Autophagy in neurodegenerative diseases: what do we know about glaucoma? (Prof. Rossella Russo (Università della Calabria)).
  - Role of autophagy during planarian regeneration (Prof. Cristina González Estévez (University of Barcelona)).
  - Regulation of autophagy during environmental stress in plants (Prof. Diane Bassham (Iowa State University)).
- **FOUR SEMINARS ON "WHY" OF A NOBEL PRIZE (28/01/2021 – 18/02/2021)** – Università degli studi dell'Insubria; Biotechnology and Life Science Department;
  - "Single-particle electron cryo-microscopy: a "quantum leap" in structural biology". 2017 Nobel Prize in Chemistry (Martino Bolognesi).
  - "The driven evolution of enzymatic proteins: taming evolution". 2018 Nobel Prize in Chemistry (Loredano Pollegioni).
  - "The discovery of the hepatitis C virus". 2020 Nobel Prize for Medicine (Giorgio Binelli).
  - "Development of a genome modification method". 2020 Nobel Prize in Chemistry (Alessandra Recchia).
- **SEMINAR "GENOME EDITING" (24/05/2019)** – Università degli studi dell'Insubria; Biotechnology and Life Science Department;
  - Programmable nucleases: the biotechnology revolution of genome editing (Anna Cereseto).
  - Beyond the limits of non-precision genome editing with novel CRISPR tools (Antonio Casini).
  - Advanced Genetic Engineering of Haematopoiesis for the treatment of human disease (Pietro Genovese). Crisper crops (Carlo Pozzi).
  - Third decantation: ethical issues on CRISPR/Cas9 Genome Editing approaches (Davide Battisti).
- **SEMINAR "ANIMAL SPERIMENTATION" (4 HOURS, 03/04/2019); LECTURE "D.LGS 26/2014 E RUOLO DELL' OPBA" (2 HOURS, 13/04/2019);** – Università degli studi dell'Insubria; Biotechnology and Life Science Department.
- **ON-LINE SEMINAR ON VACCINES (28/05/2018)** – Università degli studi dell'Insubria; Biotechnology and Life Science Department;
  - Vaccines and the "memory" of the Immune System (Greta Forlani).
  - How to project a vaccine: a multidisciplinary approach for a new vaccine against tuberculosis (Luciano Piubelli).
  - Vaccines and new technologies (Maria Grazia Pizza).
- **ENAIP LOMBARDIA TRAINING COURSE (3 HOURS, 08/11/2014)** – ENAIP LOMBARDIA, Training course centre Como; Training of food personnel aimed at the prevention

and control of foodborne diseases in the application of the EC regulation N° 852 of the European Parliament and the Council of 29/04/2004.

## 5. LINGUISTIC SKILLS

- Italian (Mother Tongue)
- English.

Reading	Listening	Speaking	Writing
C1*	C1*	C1*	C1*

\*self-assessment according to the instruction of Europass Language Passport.

## 6. CURRENT POSITION

**Full-time student:** PhD student (11/2022 - Current), first year of studies; Università degli studi dell'Insubria, Department of Life Sciences and Biotechnologies, laboratory of Microbial Biotechnology; Project title: Exploring and exploiting microbial biodiversity in Arctic Permafrost.

## 7. PREVIOUS WORK EXPERIENCE

- **MASTER'S DEGREE THESIS** – UCT PRAGUE; FACULTY OF FOOD AND BIOCHEMICAL TECHNOLOGY; BIOTECHNOLOGY AND FOOD SCIENCE; Master thesis project title: "Production of pigments by the fungus *Monascus*". Optimization of pigments and citrinin production by the fungus *Monascus* in liquid culture medium and on solid substrates. Evaluation of *Monascus* pigments antioxidant activity assays. Practical skills acquired: HPLC and UHPLC analysis and data processing, fungi cultivation, work in sterile conditions, spectrophotometer analysis on single cuvette and 96 well microplates, pH meter analysis, autoclave, cultivation on solid culture medium, cultivation in liquid culture medium, cultivation on a solid substrate, antioxidant (DPPH, and ABTS) assays, work with GMO (cultivation, manipulation, disposal), column chromatography, thin-layer chromatography, optic microscopy, manipulation of chemical and volatile compounds, control of laboratory equipment (reagents, sterile chamber, glove box). Period: 13/09/2021 – CURRENT.
- **BACHELOR'S DEGREE THESIS** – UNIVERSITÀ DEGLI STUDI DELL'INSUBRIA; BIOTECHNOLOGY AND LIFE SCIENCE DEPARTMENT; BIOTECHNOLOGY; Bachelor thesis project title: "Microbial catabolism of terephthalic acid and bioinformatic analysis of TPA transporter". Bibliographic analysis of microbic catabolism of terephthalic acid (TPA), the product of polyethylene terephthalate (PET) biodegradation by *Ideonella sakaiensis*. Molecular Docking analysis on TPA transporter. Software and programs used: PyMOL, AutoDock Vina, AutoDock Tools, Avogadro, ChemSketch, NCBI, Google Scholar, Protein Data Bank, UniProt, PubChem, SWISS-MODEL, I-TASSER, TMHMM, Clustal Omega, Protein-Ligand Interaction Profile. Period: 02/03/2020 – 21/07/2020.
- **Student collaboration - 200 hours.** Help university students with learning disabilities in the preparation of exams and explanation of topics covered during lectures. Università degli studi dell'Insubria. Period: 10/12/2019 – 20/05/2021.

## 8. SCIENTIFIC AWARDS

- **PNRR scholarship** for PhD - XXXVIII cycle – at Università degli studi dell'Insubria.

- **VSCHT internal scholarship to support student research projects for 2022 (01/04/2022 – 31/07/2022)**; Scholarship of 200 € delivered by University Chemistry and Technology Prague, Department of Food and Biochemical Technology.
- **Scholarship of merit to students in the second year of Molecular and Industrial Biotechnology at the Università degli studi dell'Insubria (16/12/2021)**; Scholarship of 250 € delivered by Università degli studi dell'Insubria, Department of Biotechnology and Life Sciences.
- **Erasmus + scholarship (11/05/2021)**; Erasmus+ scholarship of 6261,67 € to participate in the Double Degree program at the University of Chemistry and Technology in Prague, for 11 months, from 01/09/2021 to 31/07/2022. 2408,33 € delivered by UE. 3853,33 € delivered by the University of Insubria and MIUR.