



Francesca Tardanico

- Housing: 1
- E-mail: francesca.tardanico@unige.it
- Telephone: +39 010 4859611
- Sex: F
- Date of birth: 12/05/1990
- Nationality: Italian

WORK EXPERIENCE

[01/11/2023 – Current] **PhD Student**

Professor Elena Grasselli, at DISTAV University of Genoa

City: Genoa

Country: Italy

My project deals with Determining the beneficial effects of bioactive compounds extracted from fishery by-products, for the course SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND THE TERRITORY (STAT).

[01/03/2022 – 31/10/2023] **Research Fellow**

Professor Elena Grasselli, at DISTAV University of Genoa

City: Genoa

Country: Italy

- Maintenance of cell lines in culture. The methods involve: thawing, freezing, growth of a cell line, Biobanking activities and quality control.
- Evaluation of the viral load of SARS Cov2 in the wastewater of the Liguria region, in collaboration with ARPAL.
- Evaluation of membrane integrity evaluated in 2D (cell lines) and 3D (three- dimensional inserts of different models)
- Evaluation of the antioxidant power of cosmetic products

[11-15/09/2022] **Summer school on Food, Biotechnology, and Circular Economy in Innsbruck, Austria**

City: Innsbruck

Country: Austria

Participation to summer school belonging to Ulysses European University Consortium at MCI - The Entrepreneurial School.

[22/02/2021 – 20/02/2022] **Private school teacher of Biology and Chemistry**

Director Francesco Cordua

City: Genoa

Country: Italy

- Preparation and training of students in chemistry and biology aimed at passing the entrance tests for medicine, dentistry, veterinary medicine and health professions at both private and state universities.
- Guide to the study method to solve questions, learn time management.
- Guide to psychology and motivational preparation

[12/2018 – 12/2019] **Thesis trainee**

Barbara Parodi, IRCCS Polyclinic Hospital San Martino

City: Genoa

Country: Italy

Laboratory activities in the cell bank:

- Conservation and maintenance in culture of cell lines
- Land preparation
- Freezing, thawing of biological material
- Storage of cell lines and their distribution
- Test for determining the presence of Mycoplasma
- Authentication techniques of human cell lines as the main field developed in the master thesis

A booklet was also developed during the internship *handbook* "Good practices for the use of cell lines" in which I actively participated.

[13/07/2019] **Reception entertainer**

IIT - Italian Institute of Technology

City: Genoa

Country: Italy

- Reception animation mainly in the hall and in the various workshops prepared for the event
- Coordination and organization of people flow
- Respect and enforce the internal safety rules of the structure

[12/12/2018] **Reception entertainer**

IIT - Italian Institute of Technology

City: Genoa

Country: Italy

Reception animation mainly in the hall and in the various workshops prepared for the event, coordination and organization of the flow of people in the event.

[09/2016 – 03/2018] **Thesis trainee**

Prof. Annamaria Bassi, professor of DIMES of the University of Genoa

City: Genoa

Country: Italy

Cell culture laboratory activities:

- maintenance of the cell line in culture
- MTT colorimetric assay cell viability test

[23/10/2013 – 03/11/2018] **Reception entertainer**

Science Festival

City: Genoa

Country: Italy

- Reception of the public in workshops and exhibitions,
- Ticket control and organization of the flow of people in the designated locations.
- Preparation of conference rooms and release of information to the public.

Duration event 10 days a year

[24/11/2022] **State exam Biologist section A with evaluation 50/50**

University of Genoa

City: Genoa

Country: Italy

[05/2020 – 07/2020] **ACQUISITION 24 CFU**

University of Genoa

City: Genoa

Country: Italy

Fields of study: Pedagogy

Final vote: Suitable

Type of credits: CFU **Number of credits:** 24

Training course for the acquisition of 24 credits in the areas of:

- Pedagogy
- Psychology
- Anthropology
- Teaching Methodologies.

Two subjects have been added to deepen the scope of Geology (12 additional credits):

- Principles of Geomorphology
- Earth science teaching

[09/2018 – 18/03/2021] **Master's degree in Molecular and Health Biology obtained with the evaluation 110/110**

DISTAV University of Genoa

www.distav.unige.it

Address: Corso Europa 26, 16132, Genoa, Italy

Fields of study: Molecular and Sanitary

Final vote: 110/100

Thesis: The short tandem repeats profile: a tool for cellular line authentication humanities and for quality research.

Main subjects studied:

- Molecular Biology
- Biotechnology
- Hygiene
- Clinical genetics
- Clinical pathology

Main skills acquired:

- Biobanking activities
- Use of cell line databases
- Cell line authentication test and analysis (STR Profile)
- Quality control tests such as absence of bacterial, viral and mycoplasma contamination
- Knowledge of relevant industry committees/authorities

[09/30/2018] **General safety training**

IRCCS Polyclinic Hospital San Martino

City: Genoa

Country: Italy

General training on safety and health in the workplace and passed the final learning test and in e-learning mode.

Contents:

- Prevention and safety at work
- Concepts of risk, damage, prevention and protection
- Organization of corporate security
- Rights, duties and sanctions for corporate subjects - Supervisory, control and assistance bodies

Further safety courses have been completed:

- Basic course on occupational health and safety for workers
- Training course on specific risks in the healthcare environment

[03/07/2018 – 04/07/2018] **BIOLOGICAL RESOURCE CENTERS AND BIOBANKS FOR DIAGNOSIS AND RESEARCH AND THERAPEUTIC USE**

IRCCS Polyclinic Hospital San Martino

City: Genoa

Country: Italy

Presentation of the activities of biobanks and their role in the correct identification and authentication of cell lines used in diagnostics and scientific research.

[09/2014 – 27/03/2018] **Bachelor's Degree in Biological Sciences obtained with a score of 99/110**

DISTAV, University of Genoa

www.distav.unige.it

Address: Corso Europa 26, 6, 16132, Genoa, Italy

Fields of study: Biology **Final vote:** 99/110

Thesis: Stem potential of human pre-adipocytes

Main subjects studied:

- Physiology
- Pathology
- Microbiology

Skills:

- Good knowledge of the dynamics of a laboratory
- Organization of the internal spaces of the laboratory
- Excellent knowledge in the preparation of the powerpoint for the exposition of the project

[09/29/2016 – 09/30/2016] **Cell cultures: alternative methods**

University of Genoa - DIMES

City: Genoa

Country: Italy

The refresher course on cell cultures was developed in two days with theoretical parts and practical parts in which the new methods in the field of cell cultures as alternatives to animal experimentation were illustrated.

[09/2009 – 07/2014] **Naturalistic scientific high school diploma obtained with evaluation 80/100**

Enrico Fermi scientific high school www.fermi.edu.it

Address: Via Ulanwski 56, 16151, Genoa, Italy

Fields of study: Scientific Naturalistic **Final vote:**

80/100

Thesis: Leonardo Sciascia: *"The day of the owl"* and *"To each his own"*

LANGUAGE SKILLS

Native language: Italian

Other languages: English

LISTEN B1 READING B1 WRITING B1

ORAL PRODUCTION A2 ORAL INTERACTION A2

Levels: A1 and A2: Elementary level B1 and B2: Intermediate level C1 and C2: Advanced level

DIGITAL SKILLS

- Office Package: Word, Excel, Powerpoint.
- Email: Outlook, Gmail, Libero.
- Browsers: Internet Explorer, Mozilla, Firefox, Google chrome, Safari
- Platform of communication: Skype, Zoom, Google teams.
- Windows and Android platforms

PUBBLICATION

Oral presentation and Posters at conferences

[2023]

Evaluation of physiological repeated exposure of aluminum in 3D intestinal tissue model

De Negri Atanasio G., Allaria G., Dondero L., Rispo F., **Tardanico F.**, Cortese K., Ferrando S., Soggia F., Markus J., Filippini T., Robino F., Zanotti Russo M., Grasselli E. [2023] 73rd Congress of the Italian Society of Physiology (SIF 2023). Pisa, Italy 6-8 September.

Effects of genistein and daidzein on 3D skin models

Rispo F., Dondero L., De Negri Atanasio G., Allaria G., **Tardanico F.**, Zanotti-Russo M., Robino F., Markus J., Letasiova .S, and Grasselli E. [2023] 73rd Congress of the Italian Society of Physiology (SIF 2023). Pisa, Italy 6-8 September.

Beneficial effect of hydrolysed marine collagen on physiology of skin models.

Dondero L., De Negri De Negri Atanasio G, Lertora E., Allaria G., Rispo F., **Tardanico F.**, Boggia R., Turrini F., Ferrando S., Dupin D., De Souza Nunes J., Diaz N. and Grasselli E. [2023] 73rd Congress of the Italian Society of Physiology (SIF 2023). Pisa, Italy 6-8 September.

Evaluation of the antioxidant power of the different cosmetic formulations.

Tardanico F., De Negri Atanasio G., Dondero L., Rispo F., Allaria G., Zanotti-Russo M., Grasselli E. [2023] Centro 3R - IV Annual Meeting, 13-15 September 2023 at University of Milano Bicocca.

Preliminary results of evaluating effects of phytoestrogens on the skin according to NGRA.

Rispo F., Dondero L., De Negri Atanasio G., Allaria G., **Tardanico F.**, Zanotti-Russo M., Robino F., Markus J., Letasiova S., and Grasselli E. [2023] Centro 3R - IV Annual Meeting, 13-15 September 2023 at University of Milano Bicocca.

Cosmetic application of hydrolized marine collagen on skin models.

De Negri Atanasio G., Dondero, F. Rispo, Allaria G., **Tardanico F.**, Ferrando S., Boggia R., Turrini F., Zanotti Russo M and Grasselli E. [2023] Centro 3R - IV Annual Meeting, 13-15 September 2023 at University of Milano Bicocca.

Extracting added-value fish oils from marine by-product for cosmetic application.

Allaria G., Dondero L., **Tardanico F.**, Rispo F., Robino f., Boggia R., Turrini F., Zanotti Russo M., De Negri Atanasio G., Grasselli E. [2023] European Congress of Marine Biotechnology (ESBM 2023). Malaga, Spain. 21-14 November.

Benzophenone-3: remediation with microalgae and the following investigation of endocrine disruptor potential.

De Negri Atanasio G. Dondero L., Rispo F., **Tardanico F.**, Perata E., Zanotti Russo M., **Grasselli E.** and Casazza A. [2023] European Congress of Marine Biotechnology (ESBM 2023). Malaga, Spain. 21-14 November.

Evaluation of hydrolised marine collagen as cosmetic active principle.

Dondero L., De Negri Atanasio G., Lertora E., Allaria G., Rispo F., **Tardanico F.**, Boggia R., Turrini F., Ferrando S., Dupin D., DeSouza Nunes J., Diaz N. and Grasselli E. [2023] European Congress of Marine Biotechnology (ESBM 2023). Malaga, Spain. 21-14 November.

[2022]

Innovative In Vitro Strategy for Assessing Aluminum Bioavailability in Oral Care Cosmetics

Allaria G., De Negri Atanasio G., Filippini T, Robino F., Dondero L., Soggia F., Rispo F., **Tardanico F.**, Ferrando S., Aicardi S., Demori I., Markus J., Cortese K., Zanotti-Russo M., Grasselli E. [2022]

Int J Environ Res Public Health. doi:10.3390/ijerph19159362.

Two steps approach for investigating bioavailability of aluminum in accidentally ingested oral care products.

Grasselli E., Allaria G., Dondero L., De Negri Atanasio G., Rispo F., **Tardanico F.**, Filippini T., Robino F., Soggia F., Ferrando S., Aicardi S., Demori I., Markus J., Zanotti Russo M. (oral presentation) [2022]

21st International Congress of the European Society of Toxicology In Vitro (ESTIV) – November 21-25, Barcelona

The study on EDs and the application of the NGRA according to the guidelines SCCS NoG XI Ed: two overlapping challenges

Zanotti-Russo M, Allaria G, Dondero L, De Negri Atanasio G, Rispo F, **Tardanico F.**, Robino F, Perata E, Bruzzone F, Grasselli E; (poster presentation) [2022]

21st International Congress of the European Society of Toxicology In Vitro (ESTIV 2022). Barcelona-Sitges, Spain, 21-25 November 2022.

ToxTool: an innovative database for the regulatory affair.

De Negri Atanasio G., Robino F., Dondero L., Perata E., Rispo F., Allaria G., **Tardanico F.**, Bruzzone F., Zanotti-Russo M., Grasselli E; [2022]

21st International Congress of the European Society of Toxicology In Vitro (ESTIV 2022). (poster presentation) Barcelona-Sitges, Spain, 21-25 November 2022.

Evaluation of extracted collagen from food waste as an active ingredient for cosmetic application

Dondero L, De Negri Atanasio G, Rispo F, Allaria G, Tardanico F, Turrini F, Grasso F, Orlandi V, Boggia R, Grasselli E; [2022]

21st International Congress of the European Society of Toxicology In Vitro (ESTIV 2022). Barcelona-Sitges, Spain, 21-25 November 2022 (poster presentation).

Estrogenic activity related to the presence of SARS-CoV-2 in wastewater. Rispo F, Dondero L, De Negri Atanasio G, Allaria G, Tardanico F, Rosatto S, Bellisomi M, Palumbi G, Tomesani I, Iervasi E, Izzotti A, Nicosia E, Grasselli E; [2022].

21st International Congress of the European Society of Toxicology In Vitro (ESTIV 2022). Barcelona-Sitges, Spain, 21-25 November 2022 (poster presentation)

Assessing aluminum bioavailability in oral care products by an in vitro double step approach.

Allaria G, Tardanico F, De Negri Atanasio G, Dondero L, Rispo F, Filippini T, Robino F, Soggia F, Ferrando S, Aicardi S, Demori I, Markus J, Cortese K, Cagliani MC, Zanotti Russo M, Grasselli E; [2022]

International Symposium of the federation of European societies on trace elements and minerals. (poster presentation) FESTEM 2022, Madrid, 28 Sept–10 Oct 2022.

PROJECTS

[2022]

Innovative in vitro strategy for assessing aluminum bioavailability in oral care products.

Allaria G, Tardanico F, De Negri Atanasio G, Dondero L, Rispo F, Filippini T, Robino F, Soggia F, Ferrando S, Aicardi S, Demori I, Markus J, Cortese K, Cagliani MC, Zanotti Russo M, Grasselli E; XVI International Congress of Toxicology (ICT 2022) UNITING IN TOXICOLOGY.

Maastricht (NL), 18-21 Sept. 2022. 52. (poster presentation)

Open doors in biobanks

[09/26/2019]

Activity proposed for students facing these realities: role of biobanks, what activities they carry out with interventions by researchers and interactive activities with the aim of involving the kids as much as possible.

The booklet was developed for this project handbook "*Good practices for the use of cell lines*" in collaboration with Alisa, BBMRI.it and the University of Genoa

I authorize the processing of my personal data, pursuant to Legislative Decree 196 of 30 June 2003

Genoa, 09/06/2023

Francesca Tardanico

