



## Federica Arienti

📍 Home: (Italy)

### EDUCATION AND TRAINING

#### PhD in Drug Discovery and Development, XL cycle

*Alma Mater Studiorum - University of Bologna and CNR-ISSMC* [ 01/11/2024 – Current ]

City: Bologna and Faenza | Country: Italy | Website: [www.issmc.cnr.it](http://www.issmc.cnr.it)

- Research Topic: Development and characterization of new 3D bioactive matrices for regenerative medicine
- Title of the proposal: Design and development of stimuli-responsive 3D biomimetic materials to enhance soft tissue regeneration process

#### Pharmacist Qualification

*Alma Mater Studiorum - University of Bologna* [ 07/2017 ]

City: Bologna | Country: Italy | Website: [www.unibo.it](http://www.unibo.it) | Final grade: 293/350

Consisting in a written test, two laboratory tests and an oral one

#### Master of Science in Pharmacy - Single Cycle Degree

*Alma Mater Studiorum - University of Bologna* [ 10/2011 – 03/2017 ]

City: Rimini | Country: Italy | Final grade: 110/110 cum laude | Thesis: "Multifunctional effects of a hybrid molecule donepezil-curcumin in a vitro model of Alzheimer's disease"

Experimental thesis in Pharmacology - QUVI Research Laboratories, Rimini (Jan – Jul 2016), thesis supervisor: Prof. A. Tarozzi

- Project: collaboration with the Prof. A. Tarozzi's research group ([andrea.tarozzi@unibo.it](mailto:andrea.tarozzi@unibo.it)) for the study of multifunctional molecules with antioxidant, anti-inflammatory and neuroprotective activities for the AD therapy, included in an international project "Sciences without frontiers" Italy-Brazil. The project involved the development of hybrid molecules that combine the donepezil pharmacophore, functional in symptom control, and a curcumin pharmacophore with potential antioxidant and neuroprotective effects, as well as the evaluation of their safety and efficacy profile
- Laboratory activities and instrumentation: setup of human neuroblastoma (SH-SY5Y) and human acute monocytic leukemia (THP1) cell cultures on standard substrates to reproduce respectively, neurodegenerative and neuroinflammatory events. Preparation of the culture medium at 10-5-2% of FBS (with DMEM, Penicillin-Streptomycin and L-glutamine). SH-SY5Y cells, the most used ones, were grown in monolayers in 75 cm<sup>2</sup> diameter cell culture flasks in DMEM 10% FBS complete medium, in a humidified atmosphere at 37°C with 5% CO<sub>2</sub>. Use of specific solutions as HBSS and D'PBS saline solutions, EDTA- trypsin for the cells removing ones they reached sub-confluence or confluence and Eosin solution to stain the cells to be counted using the Burkner chamber, before carrying out the experiments and subsequently reaching the desired concentration, stock solution of Tetrazolium salts and MTT working solution etc. Use of DPPH, a very stable nitrogenous radical, H<sub>2</sub>O<sub>2</sub> and OAB<sub>1-42</sub>, a specific neurotoxin for AD.

Specific in vitro tests:

- Neuronal viability: Tetrazolium salt test (MTT);

- Evaluation of intracellular ROS formation and of direct and indirect antioxidant activities: use of 2,7-dichlorodihydrofluorescein diacetate (H<sub>2</sub>DCF-DA);
- Evaluation of intracellular glutathione levels (GSH): use of Monochlorobimane (MBC) probe;
- Determination of dead cells due to OAB<sub>1-42</sub> activity and toxicity: Propidium Iodide test, Congo red - OAB<sub>1-42</sub> binding test and DHE test;
- OAB<sub>1-42</sub>-induced cytotoxicity in terms of exocytosis and intracellular reduction of formazan: intra- and extra-cellular formazan solubilization test;
- Evaluation and quantification of the Nrf2 factor activated at nuclear level: TransAM Nrf2 kit inclusive of Elisa test and Bradford Protein assay for the proteins determination, Western Blotting;
- Other tests for the evaluation of antioxidant activity: DPPH and ABTS test (radical species);

Use of electronic and infrared microscopes, laminar flow hoods, spectrophotometer, laboratory centrifuge, pH meter and autoclave sterilization, data tests processing on PC

## Secondary School Diploma in Agriculture

*Agrarian Technical Institute, Cesena (FC), Italy* [ 2006 – 2011 ]

City: Cesena | Country: Italy | Final grade: 100/100 cum laude

## Congress: "ESB 34th annual conference of the European Society for Biomaterials 2025"

[ 07/09/2025 – 11/09/2025 ]

City: Turin | Country: Italy

The conference focused on both traditional areas of research, such as e.g. clinical translation, regenerative medicine, in vitro models, drug delivery, antibacterial treatments, and emerging themes, such as biomaterials assisted gene and cell therapy, investigations at the (bio)molecular and cell scale, as well as crosscutting topics, such as artificial intelligence in biomaterial research, ethics, and 3Rs principle, regulatory frameworks.

I participated at the congress with an oral presentation

## Summer School: "2025 International Summer School BIOMAT"

[ 07/07/2025 – 11/07/2025 ]

City: Cergy and Paris | Country: France

The Summer School planned several keynote lectures, technological sessions, practical trainings, educational programs, flash talks and poster sessions

## Thematic Workshop: "Advanced strategies for in vitro and in vivo osteosarcoma models - Translating research to clinical practice".

[ 18/12/2024 – 20/12/2024 ]

City: Lisbon | Country: Portugal

## Intensive General English course at ELC School

[ 01/2020 – 02/2020 ]

City: Sydney | Country: Australia

This course allowed me to improve listening, vocabulary, speaking, grammar, writing and pronunciation aspects and to acquire fluency especially in the spoken language, being mostly focused on communicative skills; the course consisted of a total of 140 hours, including weekly verification tests, extra English lessons (exam listening, pronunciation, work ready, Australian studies, conversation, presentation), "social activities" and the final level certificate (B2)

## B1-B2 and Conversation English courses

[ 09/2019 – 12/2019 ]

City: Ravenna, Forlì and Cesena | Country: Italy

Courses included a total of 60 and 48 hours respectively and concerning elements of grammar, lexicon, principles of phonetics and English communicative skills; these included a certificate of participation at the end

## Word Advanced Level course

[ 11/2019 – 12/2019 ]

City: Rimini | Country: Italy

Advanced document and collaborative editing, paragraph management, organization of a document, linking and embedding between Word and other applications; issuing of a 16-hour certificate of participation

## ECM refresher courses for Pharmacists

[ 12/2022 ]

City: Cesena | Country: Italy

During my professional experience as a pharmacist I participated in various teaching/training courses specific to the profession, including the most recent: "Osteoporosis: the pathology, diagnosis, treatment and follow up" (15 ECM online) and "Covid-19 vaccination campaign: safe administration of the SARS-CoV-2/Covid-19 vaccine (second edition)" (16 ECM online)

## General Safety and Health training courses

[ 06/2018 – 04/2023 ]

City: Cesena | Country: Italy

Courses of 6 and 8 hours attended during my pharmacist work experience, online and in person

## First Aid Course

[ 06/2012 ]

City: Rimini | Country: Italy

Test carried out during my university studies in pharmacy, the exam was divided into a first theoretical part and a second practical one, score 30/30 for 5,00 CF

## NDIS Worker Orientation, Certificate of Completion

[ 01/2024 ]

City: Sydney | Country: Australia

The online course aimed to educate NDIS (National Disability Insurance Scheme) workers to better support people with disability and to understand the obligations under the NDIS code of conduct

## QLD RSA Certificate

[ 03/2021 ]

City: Brisbane | Country: Australia

Nationally recognised training which aimed to provide the qualification of "Responsible service of alcohol", essential for operating in the hospitality field; the course took place online and was developed in a theoretical and practical part through video recording

## Woolworths Group and Sidekicker Health and Safety Induction Certificate of Completion

[ 05/2022 ]

City: Perth | Country: Australia

The online course aimed to teach the basics in terms of health and safety before having access to the working platform and the job itself

## WA White Card

[ 03/2022 ]

City: Perth | Country: Australia

Nationally recognised training which aimed to prepare to work safely in the construction industry; the exam included a written, oral and practical part with the issuing of a certificate qualifying the profession

## COVID SAFE Work Training for Dining In

[ 03/2021 ]

City: Brisbane | Country: Australia

Short refresher course in the field of hospitality professions in compliance with in force Covid-19 prevention and safety regulations

## WORK EXPERIENCE

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 **Alma Mater Studiorum - University of Bologna and CNR-ISSMC** – Bologna and Faenza, Italy

### PhD in Drug Discovery and Development, XL cycle

[ 01/11/2024 – Current ]

- 2D and scaffold-based 3D cell cultures
- Cell viability assays (Live and Dead, MTT and PrestoBlue assay)
- Use of optical and inverted fluorescence microscopes
- Actin and Dapi staining
- Cell fixation with paraformaldehyde
- Protein extraction and quantification
- Histology: embedding of paraffin samples and histological staining
- Fluorescence analysis with Thermo Scientific Fluoroskan FL fluorometer

 **Santa Maria del Monte Pharmacy, Dr. Giaquinto and Bianco** – Cesena, Italy

### Pharmacist

[ 06/2024 – 10/2024 ]

- Taking care of medical prescriptions, medicines delivery and medical advice service
- Offers and deadlines management, exhibition layout
- Loading goods and arrangement of shelves, offers and prices, inventory
- Blood pressure and blood sugar measurement
- Carrying out of Covid-19 nasal swabs
- “CUP” reservations and payments

 **Polish Cleaning** – Sydney, Australia

### Housekeeping cleaner

[ 12/2023 – 02/2024 ]

Independent management of the job as a freelancer and ABN holder (Partita IVA)

 **San Francesco Pharmacy, Dr. Giulia Santucci** – Cesena, Italy

### Pharmacist

[ 11/2022 – 10/2023 ]

 **BHP Company** – Perth, Australia

### Utility FIFO job

[ 02/2022 – 08/2022 ]

Ability to adapt to various types of tasks as needed, in rural areas and fast-paced working environment: detailed cleaning of rooms and common areas of the village and the mining site, use of specific cleaning and sanitization methods following certified policies and procedures, also in the face of the Covid-19 pandemic, teamwork and within

established times in order to maintain a safe, tidy and welcoming workplace, independent management of the area reserved for catering, small administrative tasks (all-rounder)

 **James St Bakery** – Brisbane, Australia

### **Bakery customer service**

[ 04/2021 – 09/2021 ]

Skills in fitting into a multi-ethnic and varied environment, being subject to different rules and customs, far from my comfort zone: opening and setting up of the shop, handling customer service (including by telephone) oriented in building long-term relationships with clients, orders and payments management, closing and cleaning of the premises, helping with the management of the shop and customer service improvements, cash handling and credit card processing

 **Marinara restaurant** – Brisbane, Australia

### **Waitress and Runner**

[ 02/2021 – 03/2021 ]

Ability to communicate effectively with people of different ages and cultures, able to adapt to new and challenging situations: setting up and clearing tables, reception clients, taking orders, serving drinks and food, providing and handling customer service, general cleaning

 **Beerenberg and Mountain Blue farms** – NSW and SA, Australia

### **Picker/Packer**

[ 09/2020 – 01/2021 ]

Selection and harvesting of strawberries, blueberries and cherries following specific procedures in accordance with hygiene and safety regulations, plants pruning, harvest quality control and sorting, boxing, packaging and labelling

 **Fiorita Pharmacy, Dr. Fabrizio Vallone** – Cesena, Italy

### **Post-graduate internship and Pharmacist**

[ 10/2017 – 08/2019 ]

High degree of organizational skills, fast learner and acquisition of an excellent work ethic

 **Fiorita Pharmacy, Dr. Fabrizio Vallone** – Cesena, Italy

### **Assistant Pharmacist and Warehouse worker**

[ 08/2016 – 06/2017 ]

Undergraduate training: acknowledgment of the sectors dedicated to phytotherapeutic, homeopathic, gluten-free and cosmetic products, warehouse activities as loading goods, orders management, returns and offers, product localization, deadlines control and office tasks, galenic laboratory (galenic preparations, rules of good preparation, RM registration, compilation of worksheets, labeling and pricing).

Consolidation and enhancement of the skills acquired during the undergraduate training, independent work management

## **COMMUNICATION AND INTERPERSONAL SKILLS**

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### **Other work experience**

I have also worked as au-pair in Sydney (Feb-Jul 2020) and as modern dance teacher for 6 years (Cesena): interpersonal and communication skills with kids and an audience of different ages (entertainment experience with my dance show group), team-leading, problem solving and proactive skills, independent work management within set deadlines and goals to achieve

## VOLUNTEERING

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[ 02/2024 – 03/2024 ] McIntyre Wildlife Shelter, Melbourne

### Wildlife volunteer

Rescue and care of native, injured, sick or orphaned wild animals

[ 07/2020 – 08/2020 ] Lentil As Anything, Sydney

### Volunteer waitress at vegan restaurant

[ 11/2019 – 12/2019 ] "MoviMenti" Intercultural Center, Cesena

### Volunteer babysitter

Recreational activities and homework help

## SUMMER INTERNSHIP

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[ 07/2010 ]

### Experimental Farm Martorano 5, Cesena

Hand pollination, fruit quality check, plant care

[ 07/2009 ]

### Mercato Ortofrutticolo, Cesena

Data processing, office duties and customer service

## LANGUAGE SKILLS

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**Mother tongue(s):** Italian

**Other language(s):**

### English

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

### French

**LISTENING A1 READING A1 WRITING A1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1**

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

## OTHER SKILLS

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### Personal skills

- High degree of organizational skills and fast learner
- Ability to communicate effectively with people of different ages and cultures
- Proactive and able to adapt to new and challenging situations
- Excellent work ethic and problem solving
- Cash handling and credit card processing
- Good digital skills (PowerPoint / Word / Adobe Photoshop / Adobe Lightroom / Final Cut)

## CREATIVE WORKS

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**Hyperrealistic Drawing, Video-making and Photography passionate**

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*In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.*

Faenza, 26/01/2026