



Fabrizio Masciulli

ABOUT ME

Confident, creative, enterprising and motivated. Experienced Chemist and Researcher who thrives in a team environment.

WORK EXPERIENCE

11/2021 - CURRENT Chieti, Italy

Research collaboration, Pharmacology Lab Department of Pharmacy, "G.d'Annunzio" University

Biological assays to assess variation in bioactivity between ecotypes of the same medicinal plants: *Arctium lappa* L., *Taraxacum officinale*, and *Melissa officinalis*. (In a Lab project the aim is to evaluate the difference in chemical and metabolomic profile between ecotypes of the same medicinal plants species. This is because plants have variability in secondary metabolites due to pedoclimatic conditions. This phytochemical variability could also manifest itself in the bioactivity of hydroalcoholic extracts of medicinal plants.)

- Cells cultures (hypothalamic cells), MTT assay to study cells vitality and antioxidant effect of hydroalcoholic extract of medicinal plants after peroxidation stimuli.
- The study of biological activity of medicinal plants (*Arctium lappa* L., *Taraxacum officinale*, and *Melissa officinalis*) hydroalcoholic extracts through ex-vivo studies. Management of RNA extraction from central nervous system (hypothalamic and cortical tissue) incubated with different concentration of sample. RT-PCR to test the effects towards some genes.
- Worked in a team environment, as well as independently.
- Worked under pressure and multi-task. Followed instructions and delivered quality results.

10/2022 - CURRENT Roma, Italy

Teaching grant, Tutoring and Learning at degree course "Comunicazione Scientifica Biomedica LM-9" Department of Pharmacy and Medicine, Sapienza University of Rome

Tutoring and Learning activity (first semester of academic year 2021-2022) aims to help students meet the challenge of the College's rigorous academic standards, to guide students in their adjustment to the college learning environment, and to prepare them for a lifetime of self-sufficient learning.

Management of one on one tutoring (Chemistry, Biology, Physiology, Pharmacology, and other academic scientific subjects), academic class, and tutoring session in Inorganic and Organic Chemistry.

11/2021 - CURRENT Roma, Italy

PhD student Department of Chemistry and Technology of Drugs, Sapienza University of Rome

International PhD Program in "Molecular design and characterization for the promotion of health and well-being: from drug to food" at Food Chemistry Lab of Sapienza University, in Rome. The research is focused on the chemical characterization of foodstuffs and on the metabolic profile investigation of biological fluids through HPLC and NMR methodologies, all this to apply in different fields.

12/2019 - 10/2021 Chieti, Italy

Professor of Cosmetology and Chemistry, Dermatology, Human Anatomy and Dietology FORMES school

Address Chieti, Italy

10/2019 – 01/2020

Research internship, "Pharmacology of Systems and Translational Therapies" Lab.
CeSI-MeT, Department of Neuroscience, Imaging and Clinical Sciences, "G. d'Annunzio"
University

- The knowledge of NSAIDs and their mechanism of action, knowledge of the arachidonic acid cascade and blood homeostasis with biochemical processes involved in the coagulative cascade.
- The study of new compounds, their pharmacological activity and their selectivity towards COX-2 receptor and antagonism versus TP receptor. To test the inhibitory effects towards COX-1 and COX-2 activities were used human whole blood assays. The evaluation of PGE2 and TBX2 level by experimental methods RIA and EIA.
- Cells cultures, electrophoretic mobility shift assay to study protein.
- Worked in a team environment, as well as independently.
- Worked under pressure and multi-task. Followed instructions and delivered quality results.

Address Chieti, Italy

20/04/2018 – 09/08/2018

Pharmacist Pharmacy Del Vomano D.ssa Rosella

Skills acquired:

- Management of the provisioning of medicines, management in the sales of medicines for human and veterinary use, all of this by the website "Copernico" with its basic functions (management of prescriptions, check of storage, preparation of medical order).
- Knowledge about the composition, the therapeutic and side effects and the route of administration of drugs.
- Training course about the composition and the use of medicines.
- Course of marketing training to set up shelves and store windows, all of this based on sale, advertising and visibility of the pharmaceutical products.
- **Chemist**, management of stocks of raw materials for pharmaceutical products. The preparation of these based on GMP and knowledge of excipients and active ingredients solubility. Pricing according to Pharmacopoeia.
- Patient advice about the use, the therapeutic and side effects and the route of administration of drugs.
- The use of *Registro Entrata e Uscita* (REU).
- Management of expired drugs.
- Pharmacovigilance.

Address Giulianova (TE)

01/04/2017 – 30/09/2017

Unpaid service Pharmacy Salvatore, Dr Rocco Salvatore

Address Villamagna, Italy

01/08/2016 – 01/02/2017

Internship Pharmacy Salvatore, Dr Rocco Salvatore

Skills acquired:

- Management of the provisioning of medicines, management in the sales of medicines for human and veterinary use, all of this by the website "Copernico" with its basic functions (management of prescriptions, check of storage, preparation of medical order).
- Knowledge about the composition, the therapeutic and side effects and the route of administration of drugs.
- Patient advice about about the use, the therapeutic and side effects and the route of administration of drugs.
- The use of *Registro Entrata e Uscita* (REU).
- Management of expired drugs.
- Pharmacovigilance.

Address Villamagna, Italy

03/2014 – 05/2016 Chieti, Italy

Student Rep. at the "CdD" of Pharmacy and at the "CdS" of Pharmaceutical Chemistry and Technology "G.d'Annunzio" University

Student representative at the "Consiglio di Dipartimento" of Pharmacy and at the "Consiglio di Corso di Laurea" of Pharmaceutical Chemistry and Technology. The purpose of representation is to help students

meet the challenge of the College's rigorous academic standards, to guide students in their adaptation to the college learning environment, and to prepare them to communicate with professors for any academic activity.

Address Chieti, Italy

EDUCATION AND TRAINING

04/03/2019 – 26/04/2019 New York City, United States

Certificate Of Achievement General English at KIC New York Empire State Building
KAPLAN INTERNATIONAL ENGLISH

Level Advanced, C1

Address New York City, United States

04/2018 – 12/2018 Teramo, Italy

Register of Pharmacists Register of Pharmacists of Teramo

Address Teramo, Italy

19/06/2018 Porto San Giorgio (FM), Italy

Certificate of training course 'Farmacisti Per La Ricerca' FARMACISTI PER LA RICERCA

Address Porto San Giorgio (FM), Italy

22/05/2018 – 24/05/2018 Sansepolcro (AR), Italy

Certificate of training course 'Alta Formazione Apoteca Natura' Apoteca Natura

Address Sansepolcro (AR), Italy

2017 Chieti, Italy

Qualification to the profession of pharmacist "G.d'Annunzio" University

Address Chieti, Italy

2016 – 2017 Chieti, Italy

Degree in Pharmaceutical Chemistry and Technologies, vote 104/110; Final Project, Experimental Thesis in Organic and Physical Chemistry and Physics in Organic Chemistry: "Effetto di Radiazioni Elettromagnetiche su alcune Proprietà dell'Acqua". "G.d'Annunzio" University

The purpose of this study is to investigate the effect of electromagnetic radiation of different wavelengths on some water properties. From experimental studies, as reported in the literature, some 'abnormal' properties of water relative to its chemical-physical properties have been highlighted; they are mainly due to the interaction with electromagnetic radiation. In fact, for example, irradiation of water, with visible or IR radiation, causes structural changes in the organization of its molecules. The molecular structure of water isn't well known already. The weak hydrogen bond allows the water network to fluctuate quickly and to reorganized itself in molecular groups with specific behaviors. This survey is conducted through the exploitation of various experimental methods: solvent effect, Solvatochromism and Brownian motion. All of these can show the alterations of water properties after specific irradiation. The results are obtained by indirect analysis tools like Spectrophotometer UV/Vis and Dynamic Light Scattering (DLS).

- Skills acquired: the individuation of probe set to discover water abnormalities after specific irradiation, the knowledge of reaction mechanism and the study of the relationship between structure and properties by experimental methods; the development and the validation of analytical methods to determinate the quantitative variation of water polarity; able to use Spectrophotometer UV/Vis, Dynamic Light Scattering (DLS), Gas chromatograph (GC), laboratory tools.

Address Chieti, Italy

22/08/2016 – 25/11/2016 CHIETI, Italy

Certificate of training course about workers risks in the laboratory University of studies "G. D'Annunzio"

Main notions on aspects of health and safety of workers in the workplace, obligations to be respected and prohibitions, for the prevention of possible risks present during work, as provided for by art. 37 of Legislative Decree 81/08. Specific notions aimed at the acquisition, by workers, of concepts relating to

risks and prevention and safety in the workplace, in relation to the tasks, possible damages and the consequent prevention and protection measures characteristic of the corporate sector to which they belong, as well as required by Legislative Decree 81/08.

Address CHIETI, Italy

21/04/2016 – 21/04/2016 CHIETI, Italy

Certificate of participation at the conference "La realtà occupazionale nel Settore Farmaceutico nazionale e regionale: Produzione, Ricerca e Sviluppo" L.Pani, E.Giaquinto, E.Cauti University of Studies "G. d'Annunzio"

Address CHIETI, Italy

22/01/2016 – 23/01/2016 CHIETI, Italy

Certificate of training course about GMP "La qualità nei processi di produzione dei medicinali" M.Adami, AFI Milano; A.Regola, Bayer HealthCare Manufacturing Srl Garbagnate & Segrate, Milan University of Studies "G. d'Annunzio"

Address CHIETI, Italy

17/09/2015 – 17/09/2015 CHIETI, Italy

Certificate of participation at the conference "Carbonic anhydrases as drug targets", Claudiu T. Supuran, S. Carradori University of Studies "G. d' Annunzio"

Address CHIETI, Italy

25/05/2015 – 27/05/2015 CHIETI, Italy

Certificate of training course BLS, Health Providers American Heart Association University of Studies "G. d'Annunzio"

Main procedures of RCP (cardiopulmonary resuscitation) on the adult, child and suckling.

Address CHIETI, Italy

2006 – 2011 CHIETI, Italy

Scientific high school Diploma LICEO SCIENTIFICO "F.MASCI", Via Nicoletto Vernia, 16

Address CHIETI, Italy

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening
B2

Reading
C1

Spoken production
C1

Spoken interaction
B2

Writing
C1

ADDITIONAL INFORMATION

Publications

[Protective Effects Induced by Hydroalcoholic Allium sativum Extract in Isolated Mouse Heart](#) 2021

[THE SMELL OF THE KITCHEN](#) 2022

Communication and interpersonal skills

Communication and interpersonal skills Excellent communicative skills grown up during academic experience and the students representation on the 'Consiglio di Dipartimento' and the 'Consiglio di Corso di Laurea' at the "G. d'Annunzio" University, from March 2014 to May 2016

Posters

COMPARISON BETWEEN SPONTANEOUS AND ORGANICALLY GROWN ECOTYPES OF *Taraxacum officinale* APPLYING NMR APPROACH

VII Workshop APPLICAZIONI DELLA RISONANZA MAGNETICA NELLA SCIENZA DEGLI ALIMENTI, ROMA 23-24 June 2022

NMR CHEMICAL CHARACTERIZATION OF *Acheta domestica* FLOUR

ITALIAN-FRENCH INTERNATIONAL CONFERENCE ON MAGNETIC RESONANCE, MILANO 27-30 September 2022

Oral

PRODUZIONE DI BIOSTIMOLANTI A PARTIRE DA SCARTI DI CARCIOFO E CAVOLFIORRE

Workshop Ri-cicloHorto, ROMA 27 May 2022

COMPARAZIONE TRA GLI ECOTIPI SPONTANEO E BIOLOGICO DI *Taraxacum officinale* MEDIANTE NMR E HPLC-DAD

Workshop FITO-BIO, ROMA 9 September 2022

NMR CHEMICAL CHARACTERIZATION OF *Acheta domestica* FLOUR

PhD Autumn Food Chem School, PAVIA 17-18 October 2022

Conferences

Workshop Ri-cicloHorto

Food-waste valorization (first year of project activity), financed by Lazio region, ROMA 27 May 2022

VII Workshop APPLICAZIONE DELLA RISONANZA MAGNETICA NELLA SCIENZA DEGLI ALIMENTI

ROMA 23-24 June 2022

Workshop FITO-BIO

Chemical characterization of medicinal plants, financed by CIVIS Open Lab Sapienza, ROMA 9 September 2022

ITALIAN-FRENCH INTERNATIONAL CONFERENCE ON MAGNETIC RESONANCE

MILANO 27-30 September 2022

PhD Autumn School in Food Chemistry

PAVIA 17-18 October 2022