



WORK

EXPERIENCE

2022-today

Fellow of Research

University of Perugia

Department of Pharmaceutical Sciences

- **Title of the project:** "Biomolecular and epidemiological investigations on the long-term impact of SAR-COV2 infection on renal healthy".

EDUCATION

2018-2022

Master's degree in cellular and molecular biology

University of Turin

Department of Life Sciences and Systems Biology, Turin , Italy.

Curriculum: biomedical

Graduation

- Academic year: 2020/2021
- Graduation date: 8 April 2022
- Final grade: 101/110

January 2021-
October 2021

Internship for thesis project

University of Perugia

Department of Pharmaceutical Sciences, Section of Applied Biochemistry and Nutrition Sciences, Perugia, Italy.

- Supervisors: Prof. Giovanna di Nardo and Prof. Francesco Galli
- Thesis title: "A new chocolate product functionalized with vitamin E: characterization of main bioactive compounds (vitamin E and epicatechin)".
- Principal subjects/occupational skills covered: vitamins and polyphenols analysis by TLC, HPLC, GC-MS, extractive techniques, chromatographic purification, western blotting.

2015-2018

Bachelor's degree in biological sciences

University of Perugia
Department of Chemistry, Biology and Biotechnology, Perugia, Italy.
Curriculum: molecular

Graduation

- Academic year: 2017/2018
- Graduation date: 18 October 2018
- Final grade: 110/110 cum laude

**July 2018-
August 2018**

Internship

University of Perugia
Environmental chemistry lab and ecotoxicology lab.

- Supervisors: Prof. Roberta Selvaggi and Prof. Antonia Concetta Elia.
- Research topic: oxidative stress induced by metal bioaccumulation and toxicity in *Anodonta cygnea*.
- Principal subjects/occupational skills covered: spectrophotometric-based enzymatic assays (mainly glutathione peroxidase and catalase), use of MARS acid digestion system.

PERSONAL SKILLS

Mother tongue Italian

Other language(s)

Language	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Very good	Very good	Good	Good	Good
French	Very good	Very good	Good	Good	Good
German	Discrete	Good	Sufficient	Sufficient	Sufficient
Russian	Good	Discrete	Sufficient	Sufficient	Discrete

Communication skills Active listening, empathy, determination, perseverance, sense of initiative, problem solving, good interpersonal skills and ability to work in a team.

Organizational skills Good ability of management and organization of experiments for scientific purposes.

JOB-RELATED SKILLS

Laboratory techniques:

Quantitative and qualitative analysis on biological samples (such as plasma, cell cultures, tissue) and food matrix by thin layer chromatography (TLC), gas chromatography-mass spectrometry (GC-MS), high pressure liquid chromatography (HPLC) coupled with different detectors (UV-VIS, electrochemical and fluorescence detectors); extractive procedure for proteins, lipid and hydrophilic compounds, and purification by column chromatography. Use of MARS acid digestive system. Ellman assay, Folin Ciocalteu assay, enzymatic and antioxidant assays. Basic use of cell cultures (cell count, MTT assay, staining techniques) and western blotting.

Computer skills

Informatics knowledge

Windows Office suite (Word, Excel, Outlook, One Note, Power Point, Google suite (docs, calendar, sheets slides, forms, gmail, google, drive), Adobe Photoshop, ImageJ.

Bioinformatics knowledge

Use of BLAST (NCBI) and Ensemble (exons and introns identification), AnnHib software (primer design), Chromas software (helectropherogram reading). Use of scientific databases (Scopus, Science Direct, Europe PMC, PubMed Central, ResearchGate). Use of GEO, String and Target Explorer. Basic use of R software (sequence alignment both global/local alignment), K-means and hierarchical clustering.

PUBLICATIONS

- Bartolini, D.; Marinelli, R.; Stabile, A. M.; Frammartino, T.; Guerrini, A.; Garetto, S.; Lucci, J.; Rende, M.; **Migni, A.**; Galli F. Wheat Germ Oil Vitamin E Cytoprotection Effect and its Nutrigenomics Signature in Human Hepatocyte Lipotoxicity. Helion 2022. (Published: 23 September 2022)
- Mattioli, S.; Dimauro, C.; Cesarani, A.; Dal Bosco, A.; Bartolini, D.; Galli, F.; **Migni, A.**; Sebastiani, B.; Signorini, C.; Oger, C.; Collodel, G.; Castellini, C. A Dynamic Model for Estimating the Interaction of ROS-PUFA-Antioxidants in Rabbit. Antioxidants 2022, 11, 531. (Published: 10 March 2022)
- Galli, F.; Marcantonini, G.; Giustarini, D.; Albertini, M. C.; **Migni, A.**; Zatini, L.; Gioello, A.; Rossi, R.; Bartolini, D.; Cellular redox abnormalities associated with the cytopathic and pro-inflammatory effects of SARS-CoV-2 infection. (Accepted on 5 July 2022).
- Bartolini, D.; Zatini, L.; Stabile, A. M.; **Migni, A.**; Frammartino, T.; Guerrini, A.; Garetto, S.; Lucci, L.; Marcantonini, G.; Rende, M.; Galli, F.; Transcriptomics of natural and synthetic Vitamin D in Human Hepatocyte Lipotoxicity. The Journal of Nutritional Biochemistry. (Status: submitted on 2nd of August)

Abstracts and conference presentations

- **Migni, A.**; Antognelli, C.; Bartolini, D.; Borrás, C.; Cruciani, G.; Di Sante, G.; Hemmings, K.; Jackson, M.; MacArdle, A.; Marcantonini G.; Mas-Bargues, C.; Masoud, I.; Pedrinolla, A.; Modena, R.; Piroddi, M.; Pistilli, A.; Rende, M.; Schena, F.; Sebastiani, B.; Stabile, A. M.; Talesa, V. N.; Tortorella, S.; Venturelli, M.; Viña, J.; Wang, E.; Zatini, L.; Galli, F. Choko-Age project: development and analytical characterisation of a new chocolate product functionalized with vitamin E to combine with physical exercise in preventing malnutrition in pre-dementia elderly subjects. 3rd Vitamin E Satellite Symposium. Ghent, Belgium, 23 August 2022. (Poster presentation).
 - Bartolini, D.; **Migni, A.**; Zatini, L.; Vacca, C.; Giustarini, D.; Pistilli, A.; Rossi, R.; Sebastiani, B.; Rende, M.; Cruciani, G.; Galli, F. Vitamin E oxidation and lipotoxicity in fatty liver in
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vitro model. International conference on fatty liver. Vienna, Austria. 2022. (Oral presentation).

- Bartolini, D.; Stabile, A. M.; Gurrato, F.: Lioci, G.; Pistilli, A.; **Migni, A.**; Svegliati-Baroni, G.; Rende, M; Galli, F. Glutathione S-transferase P interacts with Nrf2 transcription factor in the drug-resistance model of mouse hepatocarcinoma: a first molecular and physical characterization. SIAI (Società Italiana di Anatomia e Istologica), Italian Journal of Anatomy and Embryology, 2021. (Oral presentation)
- Bartolini, D.; Stabile, A. M.; Gurrato, F.: Lioci, G.; Pistilli, A.; **Migni, A.**; Svegliati-Baroni, G.; Galli, F; Rende, M. First molecular and physical characterisation of glutathione S-transferase P (GSTP) interaction with NRF2 transcription factor in the drug-resistance model of mouse hepatocarcinoma. EACA-ISCAA Joint Congress. University of Padova, Italy. 14-16 September 2021. (Poster presentation).

SCIENTIFIC SOCIETIES MEMBER

April 2022-present

Society for Free Radical Research-Europe (SFRR-E)

Scientific outreach and public communication activities

- Meeting with *Università Libera* (university of the third age) to discuss the beneficial role of vitamin E and polyphenols in protein energy malnutrition. December 2021 Bastia Umbra (Italy).
- Presentation of Choko-agE European research project for Eurochocolate festival. October 2021, Perugia (Italy).

Volunteering

2016-present

Italian Volunteer Blood-donors Association-AVIS.

