

Curriculum Vitae — Europass

Personal Information

First Name / Surname:

Mirko Magnone

Address:

Phone:

E-mail:

mirko.magnone@unige.it

Nationality:

Italian

Date of Birth:

Work Experience

Below are reported recent work experiences (full list available on request):

From March 1, 2024 – Present

Position: Technical-Scientific Officer (former Data Processing Scientific Technician, category D1)

Employer: Department of Experimental Medicine (DIMES), University of Genoa

Sector: Research

Main responsibilities:

- Permanent contract.
- Coordinator of the “Contract Research Services – DIMES” core facility (CRS-DIMES).
- Technical and scientific support for research and teaching in biochemistry.

From March 14, 2023 – February 29, 2024

Position: Professional freelance researcher

Employer: Department of Experimental Medicine (DIMES), University of Genoa

Sector: Research

Main responsibilities:

- Independent contractor for research project:
“Development and validation of an in vitro method using a 3D human intestinal model (EpiIntestinal) to investigate vitamin K absorption and its interactions with nutraceutical/pharmaceutical compounds.”

From February 10, 2020 – February 9, 2023

Position: Fixed-term Technical Officer (category D1)

Employer: Department of Experimental Medicine (DIMES), University of Genoa

Sector: Research

Main responsibilities:

- Establishment and management of an academic Contract Research Service (CRS) for public/private collaborations.
- Coordination of third mission university activities.

Education and Training

October 30, 2023

Institution: Ministry of University and Research (MUR)

Subject: Clinical Biochemistry

Qualification: National Scientific Qualification as Associate Professor in Clinical Biochemistry and Clinical Molecular Biology (Sector 05/E3)

February 6, 2023

Institution: Ministry of University and Research (MUR)

Subject: General Biochemistry

Qualification: National Scientific Qualification as Associate Professor in General Biochemistry (Sector 05/E1)

April 13, 2007

Institution: University of Genoa

Subject: General Biochemistry

Qualification: PhD in Experimental and Clinical Molecular Biology – Biochemistry Track (Cycle XIX)

Thesis Title: *“Increased TNF- α production in murine macrophages stimulated with ascorbic acid-treated quartz”* – Advisor: Prof. Umberto Benatti

September 2004

Institution: International Language Centre, Genoa

Subject: English Language

Qualification: Advanced Level 3 English Certificate – Score: 98/100

July 21, 2003

Institution: University of Genoa

Subject: Chemistry and Pharmaceutical Technologies

Qualification: Master’s Degree in Pharmaceutical Chemistry and Technology – Final grade: 110/110 with honors

Thesis Title: *“L-arginine transport and nitric oxide formation in human platelets”* – Advisor: Prof. Giuliana Leoncini

Mother Tongue

Italian

Other Languages

English

- Reading: Good
- Writing: Good

- Speaking: Good
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Organisational / Managerial Skills

- Strong project management and coordination skills in scientific research.
 - As technical-scientific coordinator of CRS-DIMES, managed 19 research projects (12 as Principal Investigator) on behalf of private companies and national/international public entities.
 - Served as Project Manager and responsible for experimental procedures (per Italian Legislative Decree 26/2014) in 3 animal testing research projects.
 - As CEO of Nutravis S.r.l., promoted and coordinated the clinical trial: *"Evaluation of the efficacy of the food supplement ABAMET in glycemic control"*, approved by the Ligurian Regional Ethics Committee (CER-Liguria) – Authorization No. PR031REG2016.
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Technical Skills and Competences

Cell Biology Techniques:

- Primary and immortalized cell cultures
- Isolation from tissues/organs
- Viability, proliferation, cytotoxicity, apoptosis, necrosis assays
- Immunohistochemistry, ELISA, RIA
- Chemoattractant/chemokinetic assays
- Immunoprecipitation, cryopreservation
- Confocal microscopy, live-imaging, Ca²⁺ intracellular analysis

Biochemistry Techniques:

- Subcellular fractionation, SDS-PAGE, EMSA
- Western Blot, enzymatic activity assays
- HPLC (ion exchange, affinity, gel filtration)
- Spectrophotometry, fluorimetry, chemiluminescence
- Supercritical fluid extraction

Animal Experimentation Techniques:

- Colony management, genotyping/phenotyping (metabolic and cancer models)
- Drug administration (cutaneous, oral, parenteral)
- Blood collection (cardiac puncture, retro-orbital, tail vein)
- Models: prediabetes, diabetes (STZ, high-glucose/lipid diet)
- Necropsy and sample collection for histology and molecular analysis

Molecular Biology Techniques:

- PCR, RT-PCR, siRNA gene silencing
- DNA/RNA extraction (animal, bacterial, viral)
- Northern Blot, gene cloning, expression vectors
- Protein expression in *E. coli*, transient transfection in eukaryotic cells
- Primer design, siRNA design software

Computer Skills:

- Operating System: Windows
- Office Suite: Microsoft Word, Excel, PowerPoint
- Image/Data Software: Photoshop, CorelDRAW, GraphPad, ImageJ

Driving Licence

- Category B

Teaching Activities

Mirko Magnone has held the role of **Adjunct Professor** at the University of Genoa for various academic years, teaching the following courses:

- 2024/2025 – *Biological Chemistry and Laboratory* (Code 65531) – BSc in Biological Sciences – Genoa Campus
- 2022/2023 – *Human Biochemistry and Diagnostic Biotechnology (with Laboratory)* (Code 98799) – MSc in Medical Pharmaceutical Biotechnology
- 2021/2022 – *Human Biochemistry and Diagnostic Biotechnology* – MSc in Medical Pharmaceutical Biotechnology
- 2020/2021 – Same as above
- 2019/2020 – *Human Biochemistry* (Code 98799) – MSc in Medical Pharmaceutical Biotechnology
- 2018/2019 – Same course and code
- 2017/2018 – *Biochemistry 2 & Structural Biology and Laboratory* (Code 95301) – MSc in Medical Pharmaceutical Biotechnology
- 2016/2017 – *Biochemistry 2 & Structural Biology and Laboratory* (Code 72786)
- 2015/2016 – Same course and title
- 2014/2015 – Same course and title
- 2013/2014 – Same course and title
- 2010/2011 – *Instrumental Physics* – BSc in Environmental and Workplace Prevention Techniques

- 2009/2010 – Same course and degree

Teaching support contracts (Art. 33 of the Statute of the University of Genoa):

- Nov 26, 2008 – Jan 31, 2009: *Biochemistry and Laboratory* – BSc in Biotechnology
- Dec 6, 2007 – Jan 31, 2008: Laboratory work – BSc in Biotechnology

Scientific Publications

Co-author of **34 peer-reviewed publications**, including **12 as first author** and **7 as corresponding author**.

Below are selected recent works (full list available on request):



1. Spinelli S, Bruschi M, Passalacqua M, Guida L, **Magnone M**, et al. *Estrogen-Related Receptor α and ABA/LANCL System*. Int J Mol Sci. 2024.
2. Spinelli S, Guida L, Passalacqua M, **Magnone M**, et al. *ABA and Cardiomyocyte Function*. Antioxidants (Basel). 2023.
3. Spinelli S, Cossu V, **Magnone M**, et al. *ABA/LANCL1/2 and Adipocyte Browning*. Int J Mol Sci. 2023.
4. **Magnone M**, et al. *ABA Improves Insulin Action in Type 1 Diabetes Models*. Metabolites. 2022. (Corresponding author)
5. **Magnone M**, et al. *ABA and Metabolic Syndrome: A New Ally*. Nutrients. 2020. (Corresponding author)

Patents

Co-inventor of **7 granted patents**, both national and international:

- US **US 7,786,042 B2** – *Fluridone as an anti-inflammatory agent* – granted 31/08/2010
- US **US 11,032,021 B2** – *Dietary sugar metabolism treatment* – granted 08/06/2021
- EU **EP 1 948 174 B1** – *Fluridone as an anti-inflammatory agent* – granted 01/08/2012
- EU **EP 2 511 272 B1** – *ABA analogues with anti-inflammatory and insulin effects* – granted 15/04/2015
- IT **IT 102017000136781** – *Treatment for intestinal microbiota dysbiosis* – granted 14/02/2020
- EU **EP 3169320 B1** – *Improved sugar metabolism* – granted 02/09/2020
- US **US 11,207,360 B2** – *Dysbiosis treatment composition* – granted 28/12/2021

Awards and International Recognition

-  **2010** – Scholarship by the Italian Society of Biochemistry and Molecular Biology (SIB) at the **35th FEBS Congress**, Gothenburg, Sweden
-  **2010** – Monetary award by SIB at the **55th National Congress**, Milan, Italy

- 🏆 **2011** – Scholarship by SIB at the **36th FEBS Congress**, Turin, Italy
 - 📢 **2015** – Featured “public release” by **FASEB Journal** Editor-in-Chief Dr. Gerald Weissmann for results on ABA and glucose metabolism
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Other Information

- 🖋️ From July 30, 2015, to July 10, 2020, served as **President and CEO** of **Nutravis S.r.l.**, a university spin-off recognized by the University of Genoa in 2017.
- 📁 Nutravis S.r.l. was fully acquired by the German pharmaceutical company **Dermapharm AG** on December 16, 2021.

Genova, 07/08/2025

Signature

A handwritten signature in black ink, appearing to be 'M. Z.', with a long horizontal stroke extending to the right.