

## Supervisor: Prof. Arianna Vignini

Department of Odontostomatologic and Specialized Clinical Sciences <a href="https://www.disco.univpm.it/">https://www.disco.univpm.it/</a>



## **Supervisor: Prof. Arianna Vignini**

## Research Group Description: the Supervisor

### Prof. Arianna Vignini, PhD, MSc

**Associated Professor in Biochemistry** - School of Medicine at University Politecnica delle Marche, Ancona, Italy.

Head of the Laboratory of Medical Biochemistry and Nutrition.

- •Graduate with a degree in biological sciences ate University of Ancona
- •Postgraduate training in the Department of Chemistry and Biochemistry at Windsor University, Canada
- Master's degree in Chemistry and Biochemistry.
- Specialization in Nutrition
- •PhD in Clinical Pathophysiology and Molecular Medicine
- PhD in Food and Health

Author of more than 125 peer-reviewed article, 2855 citations and Scopus h-index = 32.

https://orcid.org/0000-0002-2496-7932

Scopus Author Identifier: 6603133912

#### **Funded projects and awards**

- **-2001 Cariverona Project** "Platelets and Alzheimer's Disease: Biochemical Studies of Possible Early Markers";
- -2002 Young Researcher Project "Migraine and Inhibition of Nitric Oxide Synthase: A New Possible Therapeutic Principle"
- **-2004 Eli Lilly Award for Best Poster**, VI National Congress of Italian Society of Medical Andrology, Session "Spermatogenesis, Fertilization"
- **-2007 PRIN** Study of the Expression of NOS Genes and Oxidative Stress Markers in Infertile and/or Subfertile Subjects
- -2009 PRIN Immunohistochemical and Expression Analysis of NOS Isoforms in Infertile and/or Subfertile Subjects
- -2018: eCapital award for the business idea C.H.E.F. (Costumize Health Enjoying Food)
- **-2018: grant promoted by FEBS** for the organization of an event on the "Microbiome" which took place in Ancona on May 31st, 2019
- **-2021 FASTER Valorization Program** (FAcilitate the Technological Development of Research Outcomes), PoC Project: Bioactive Compound for the Treatment of Chronic Wounds COBA
- -2022 PRIN PAtient Lipidome As biomarker of Cancer immunothErapy (PALACE study)
- **-2022 Fondazione Salesi** The role of nutrition, folate metabolism, and epigenetics in the pathogenesis and clinical manifestation of endometriosis
- -2023 MIMIT MEDICALBOOK: a digital platform for innovative, personalized services for individual well-being
- **-2024 Regione Marche** Broadening the range of new functional products from Spinosi (ZERO +)



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Research Group Description: the Group

**Team work:** the group is currently formed by an Associate Professor and two PhD students



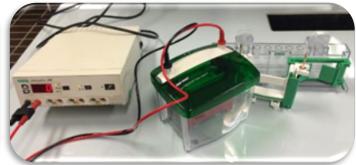
#### Research interests:

- The study of biological membrane changes induced by metabolic diseases (e.g., diabetes, obesity), atherosclerosis, hypertension, eating disorders (such as anorexia and bulimia), neurodegenerative diseases (e.g., Alzheimer's, Parkinson's, and multiple sclerosis), autism, and the role of antioxidants and pro-oxidant molecules, including nitric oxide, its derivatives such as peroxynitrite
- Male and female reproductive system disorders related to the production of reactive nitrogen and oxygen species, as well as the depletion of antioxidant systems
- Taste sensitivity both in health and disease
- Bioactive compounds and their role in NCDs
- Adherence to Mediterranean Diet both in health and disease

## **Laboratory of Medical Biochemistry and Nutrition**

https://disco.univpm.it/laboratorio-di-biochimica-medica-e-della-nutrizione-responsabile/





#### **Equipment:**

Refrigerated Centrifuge, UV-VIS Spectrophotometer, Bench Centrifuge, Water purification system, Basic laboratory equipment, Thermostatic Bath, Multimodal microplate reader, Equipment for Electrophoresis and Western Blot, Equipment for Cell Cultures, Spectrofluorimeters with Polarizers and Thermostated Cells





# The Department of Odontostomatologic and Specialized Clinical Sciences

Director: Prof. Andrea Giovagnoni

The **Department of Odontostomatologic and Specialized Clinical Sciences** is the scientific

and educational organizational structure of the UNIVPM University established in 2008,

devoted to the promotion of scientific research, education and the dissemination of

scientific research results in the community.

Its main objectives are to plan, organize and regularly evaluate the quality of research activity carried out in the scientific fields and disciplines under its competence; to plan, organize and manage the first-level and master's courses of the Faculty of Medicine; and, finally, to provide cultural and educational activities and contribute to training and orientation activities based on the needs of students in cooperation with the Medical Association.

https://www.disco.univpm.it/

15 Scientific Areas MEDS-07/B, MEDS-14/B, MEDS-14/C, MEDS-16/A, MEDS-22/A, MEDS-22/B, MEDS-20/A, MEDS-21/A, MEDS-26/A, MEDS-08/C, MEDS-26/B, BIOS-07/A, BIOS-

08/A, BIOS-09/A, BIOS-10/A, PHYS-06/A

Teaching programs for **undergraduates** in Medicine and Surgery, Dentistry, Professional education, Physiotherapy, Dietetics, Dental hygiene, Nursing, Speech Therapy, Obstetrics, Biomedical laboratory techniques, Prevention techniques in the environment and workplace, Medical, Imaging and Radiation Therapy techniques.

**Postgraduate Medical Training** specialty in Gynecology and Obstetrica, Pediatrics, Radiology, Urology, Nuclear Medicine

#### Master's Degree in:

- Nutrition and Dietetics;
- Applied Nutrition and Dietetics;
- Sports Applied Nutrition and Dietetics;
- Vegetarian Nutrition and Dietetics;
- Operative management of the pathology of the lower genital tract of the endometrial cavity
- Expert in diet planning
- Nutritiion in Physiological condition
- Nutrition in patological condition

AT A GLANCE



617

Publications

45 Staff



Last three years 2022-23-24









- 1 Centre of Artificial Intelligence & Digital Health in Medicine and Biology AIDH
- 1 Centre of Health Education and promotion (CIESS)

**Q** Clinical research Units



5 Research Laboratories