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### **Education, training and academic career**

**2020 -present** Associate Professor of Biochemistry (BIOS-07/A), University of Cagliari.

**2002-2020-** Researcher in Biochemistry (SSD BIO/10), University of Cagliari.

**2001-** Research grant at the Department of Applied Biosystems Sciences, University of Cagliari.

-PhD in Comparative Biochemistry of Ecosystems - University of Sassari.

-Qualification for teaching in secondary schools for class 60A – Natural sciences, chemistry, geography and microbiology.

**1997-** Fixed-term employment contract with the University of Cagliari.

**1996-**Scholarship from the Autonomous Region of Sardinia.

**1995-**Qualification to practice the profession of biologist.

**1994-** Scholarship from the Autonomous Region of Sardinia.

- Degree in Biological Sciences, University of Cagliari

### **Institutional roles**

**2024-present** Member of the Teaching Committee of the Degree Course in Food and Nutrition Sciences.

**2024-present** Member of the Internship Committee of the Degree Course in Toxicological Sciences and Quality Control.

**2021-present** Member of the Self-Assessment Committee of the Department of Life and Environmental Sciences.

**2019-** Member of the Student Guidance Committee of the Faculty of Medicine and Surgery.

**2019 - 2020-** Member of the Advisory Board of the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy

**2019-present** Member of the Teaching Staff of the PhD Program in Life, Environmental, and Pharmaceutical Sciences, University of Cagliari.

**2019 - 2020-** Member of the Teaching Committee of the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy

**2018 - 2019-** Member of the Admission Committee to the Degree Course in Diagnostic Professions Sciences.

**2017 - 2020-**Tutor teacher for students of the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy.

**2015 - 2020-** Quality Assurance Referent for the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy.

**2014 - 2017-**

Representative of the University of Cagliari on the Board of Directors of the Regional Agency for the Right to Education (ERSU) of Cagliari.

**2009 - 2015-** Member of the Joint Student-Teacher Committee for the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy.

**Dal 2008 a- 2013** Member of the Teaching Staff of the PhD Program in Human and Environmental Biology and Biochemistry, University of Cagliari.

**2006 - 2010-** Member of the Teaching Committee of the Bachelor's Degree Program in Medical Radiology Techniques for Imaging and Radiotherapy.

### **Teaching Activities**

**2004 - present-** Lecturer in Biochemistry, Medical Chemistry, and Nutritional Biochemistry for the Faculties of Biology, Pharmacy, and Medicine at the University of Cagliari.

**2023 present** Lecturer in Nutritional Biochemistry for Specialization School in Hospital Pharmacy.

**2003 – present** Supervisor of numerous theses for the Faculty of Biology and Pharmacy of the University of Cagliari.

**2014 - 2020** Supervisor of two PhD students in Life, Environmental, and Pharmaceutical Sciences, University of Cagliari.

**2010 - 2013** Supervisor of a PhD student in Biology and Biochemistry of Humans and the Environment, University of Cagliari.

### **Research Topics**

#### **- Brief description of the research activity**

- Preparation of extracts from plant and food matrices.

- The overall objective of the research is to study the biological activities of plant extracts/food matrices and synthetic compounds. Her primary interest is the study of antioxidant activity and the search for inhibitors of enzymes and specific proteins that play a key role in various diseases. Specifically, inhibitors of amylase, glucosidase, IAPP amyloid aggregates, tyrosinase, xanthine oxidase, cholinesterase, and monoamine oxidase, which are target proteins in diabetes, skin hyperpigmentation, gout, Alzheimer's disease, and Parkinson's disease, respectively.

- Study of cell viability and enzyme inhibition in cellular and cell-free systems.

#### **-Major collaborations**

University of Cagliari

University of Santiago de Compostela, Spain

University of Salamanca, Spain

University of Messina

Uppsala University of Uppsala, Sweden

University of Palacky, Czech Republic

#### **•Publications**

A complete list of my publications can be found at:

Scopus:

<https://www.scopus.com/results/authorNamesList.uri?name=name&st1=Fais&st2=A&origin=searchauthorlookup>

PubMed

<https://pubmed.ncbi.nlm.nih.gov/?term=Antonella+Fais&filter=years.2025-2025>

Google scholar

[https://scholar.google.com/scholar?hl=it&as\\_sdt=0%2C5&q=Fais+Antonella&btnG=](https://scholar.google.com/scholar?hl=it&as_sdt=0%2C5&q=Fais+Antonella&btnG=)

This research was conducted thanks to numerous grants:

- PRIN 2022 PNRR
- FDS-RAS projects LR 7/07
- Teaching Award Fund of the University of Cagliari to support research for faculty members engaged in institutional activities
- Fund for the financing of basic research activities, awarded by ANVUR based on scientific production
- FIRB
- Supplementary Research Fund for local scientific research projects
- Regional Law 7 August 2007, No. 7 "Promotion of Scientific Research and Technological Innovation in Sardinia"
- PRIN

### **Memberships of scientific societies**

- **2021 - present** Membership of the Italian Society of Biochemistry and Molecular Biology (SIB) and of the Federation of European Biochemical Societies (FEBS).

Updated on 12/09/2025

I authorize the processing of my personal data in accordance with Legislative Decree 196 of June 30, 2003, and Article 13 of the GDPR.