

Alessandro Tanca, PhD

short curriculum vitae

Biosketch

Alessandro was born in Sassari (Italy) in 1983. He received a **bachelor's degree in *Biotechnology*** and a **master's degree in *Molecular Biotechnology*** from the University of Sassari, Italy, in **2004** and **2006**, respectively. Then, he earned a **PhD in *Biomolecular Sciences and Biotechnology*** from the same University in **2010**, with a thesis focusing on the development and application of proteomic methods.

In 2010 he joined **Porto Conte Ricerche** (Science and Technology Park of Sardinia, Italy), where he worked as a post-doc and then as a researcher until 2018. Since 2019, he has been **Researcher/Assistant Professor of *Microbiology*** in the Department of Biomedical Sciences at the **University of Sassari, Italy**.

Scientific activity

Alessandro's research has initially focused on the development of **proteomic methods** for the analysis of formalin-fixed tissues, and their applications for biomarker discovery in cancer. Since 2011, his interests have shifted to the microbiology field, specifically to the study of the **gut microbiota**. During the years, he has been developing and optimizing experimental and data analysis methods for the characterization of microbial communities, with special focus on **metaproteomics and metaproteogenomics**. He applied integrated **multi-omics** analysis workflows to elucidate the relationship among gut microbiota, nutrition and human diseases. Currently, he is working on the optimization of methods for proteomic analysis of clinical samples (tissues, stool, saliva), with focus on the study of **microbial communities** and their link with **cancer, autoimmune and infectious diseases**.

He is author of **49 scientific publications** on international peer-reviewed journals (of which 26 as first, last and/or corresponding author), with over **1400 citations** and an **h-index of 24** (according to [Scopus](#)), as well as coinventor of two patents.

Teaching activity

After giving some lectures on proteomics and metaproteomics within several courses (University of Sassari) and summer schools (Porto Conte Ricerche), Alessandro's teaching activity at the University of Sassari started in 2019 within the **Graduate Programme in Biotechnology** (Course: ***General and Applied Microbiology***).

Currently, he is also a teacher in the **Postgraduate School of Microbiology and Virology** (Courses: ***Human Microbiota*** and ***Microbiology and Meta-omics Sciences***) and in the **International Master in Medical Biotechnology** (jointly organized by the University of Sassari, Italy, and the Hué University of Medicine and Pharmacy, Vietnam; Course: ***Systems Biology***).