

CV of Barbara Menin

Born January 10th 1984, Italian Citizen

Researcher at Italian Institute of Technology, Center for Sustainable Future Technologies (CSFT)

Systems and Synthetic Biology Research Line

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Barbara Menin obtained a master's degree in Plant Biotechnology (2007) and a PhD (2011) in Plant Genetics and Breeding- Doctoral School in Agricultural, Forestry, and Food Sciences - at the University of Turin. She has 10 years experience as post-doc in molecular biology, genetics and biochemistry. Her research activities were focused on the *in vitro* and *in vivo* functional characterization of genes involved in secondary metabolites pathways; the assessment of genetic transformation protocols aimed at use of microorganisms and plants as platforms for the production of recombinant proteins of nutraceutical interest; and on the chemical, metagenomic and transcriptomic characterisation of microalgae for CO₂ recovery and the assessment of the evolution of microalgae/bacteria consortia during wastewater treatment.

In 2019 she joined as researcher the Center for Sustainable Future Technologies (CSFT@PoliTo Torino) of Istituto Italiano di Tecnologia (IIT) located in Turin, to supervise and coordinate the research activities within the Systems and Synthetic Biology research line.

Main current research topics:

- Development of photo-autotrophic microbial cell factories for CO₂ capture and valorization into high-value compounds and platform chemicals.
- Agri-food waste valorization through microalgae-based biorefinery approach.
- Investigation of biochemical aspects related to H₂ production and storage.