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Nationality: Italian

Date of birth: 08/11/1997

Education:

- PhD Animal and Food Science, University of Padua (2022-)
- Master degree Food Science and Technologies LM-70, University of Padua (2019-2021)
- Bachelor degree Food Science and Technologies L-26, University of Padua (2016-2019)

Research areas:

- Food Microbiology
- Fermentation
- Plant extracts
- Functional Foods
- Food Science and Technology

Brief description of Ph.D project:

Many plants are well-known as potential source of bioactive compounds and could be used as substrates for microbial development to exert health-promoting effects. Fermented foods have unique functional properties due to the presence of microorganisms, which enhance nutraceuticals, eliminate undesirable components, prevent food deterioration and fortify food with bioactive compounds. Modern consumers are increasingly interested in their health and expect the food that they eat to be healthy or even capable of preventing illness. Therefore, an increase in the consumption of fermented foods as functional foods, nutraceutical-based foods, and bio-foods is being observed. The PhD project will consider various plants and/or plant extract provided by AGRIPHARMA company that will be used for fermentation trials, by using bacteria and/or fungi able to develop on these substrates. After fermentation, the resulting materials will be evaluated for the presence of new properties and/or potentially beneficial molecules.

Supervisor:

Professor Alessio Giacomini

Publications: