



UNIVERSITÀ
DEGLI STUDI
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Curriculum Vitae

Family Name: Wu
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Nationality: Chinese
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Education:

- PhD in Animal and Food Science, Università di Padova (2020-)
- M.Sc. Master's in Processing and Storage of Agricultural Products (2017-2020)
- B.Sc. Bachelor's in Food Safety (2013-2017)

Research areas:

- Food Microbiology
- Fermentation
- Antioxidant
- Antimicrobial

PhD project:

Grape marc consists of the solid parts of grapes, containing grape skins, seeds, and sometimes stalks which remain after juice extraction, and represents the main solid waste of the wine-making process. As grape must, grape marc is an acid environment that forces the selection of acidophile bacteria, such as those within the *Lactobacillus* genus. Due to its composition, grape marc is rich in polyphenol with antioxidant and antimicrobial activity, it contains large amounts of hemicellulosic sugars and fatty acids that can support bacterial growth. After isolation, many technological and probiotic activities will be tested, such as the ability to survive under gastrointestinal conditions, antibiotic resistance, cytotoxic activity, exopolysaccharide production, lipolytic, proteolytic, antimicrobial activity, ability to grow with prebiotic molecules (non-digestible fibers) as the only carbon source.

Supervisor:

Viviana Corich

Publications:

https://scholar.google.com/citations?hl=it&view_op=list_works&authuser=1&gmla=AJsN-F5rxAH5f8HxqptcoJUq9xYMcL9HUDkMKCr2op5y-0nWzZORs8bZZ1dt3fbCxeEeoqMjO0YH4zSIHPu9DjEq-z1bQWwwAxom7urY2lq3EEYWXcqob5U&user=SMPFwx8AAAAJ