



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Curriculum Vitae

Family Name: Tarrah

Given Name: Armin

Nationality: Iranian

Date of birth: 16/09/1987

E-mail: tarrah.armin@gmail.com / armin.tarrah@phd.unipd.it

Education:

- Bachelor degree: Cellular and Molecular Biology- Microbiology .
- Master degree: Biology-Microbiology
- PhD: Food Science-Food Microbiology

Research areas:

- Microbiology
- Food microbiology
- Probiotic and prebiotic
- Anti-cancer activity
- Lactic acid bacteria
- Fermentation

PhD project:

Nowadays with the increasing knowledge of the beneficial effects of lactic acid bacteria (LAB) on human health, the use of LAB as human probiotics is becoming the main topic of research for scientific community. Thus, in order

to make a little bit contribution to this emerging topic, my PhD project is aiming in assessment of:

- Physiological and biochemical characterization of different lactic acid bacterial communities.
- Investigation of their resistance to simulated gastrointestinal conditions.
- Investigation of their susceptibility to different antibiotics for human use.
- Inhibition of biofilms formation by pathogens and potential food-borne pathogens.
- Their ability of attachment to human epithelial cells by using cell culture technique.
- Production of vitamin supplements such as Folate, Riboflavin and B12 by probiotics.
- Hemolysis and safety aspect of probiotic bacteria.
- Anti-cancer activity against HT-29 human colorectal cancer cells by probiotics.

This project will possibly give us the chance to isolate and characterize some new vitamin producing probiotic lactic acid bacterial strains that in future will be utilized by food industry in preparation of such fermented food products that will not only be rich in nutrients but will also provide health benefits such as anti-cancer activity or antimicrobial activity to the hosts by exerting negative effects on pathogenic microorganisms.

Supervisor:

Prof. Dr. Alessio Giacomini

Publications:

<https://scholar.google.it/citations?user=y1LUYnsAAAAJ&hl=en>

