

PERSONAL INFORMATION

Maria Grazia Fortina  
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 Data di nascita 12/07/1957 | Nazionalità Italiana



CURRENT POSITION

Full Professor in Microbiology at the Department of Food Environmental and Nutritional Sciences (DeFENS), University of Milan

PROFESSIONAL DATA

from 2006

Full Professor at the Department of Food Environmental and Nutritional Sciences, University of Milan

from 2001

Associate Professor at the Department of Food Environmental and Nutritional Sciences, University of Milan

from 1990

Researcher at the at the Department of Food Science and Microbiology, University of Milan

PERSONAL SKILLS

Mother tongue(s)  
 Other language(s)

Italian

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	C1

PROFESSIONAL SKILLS

- Prof.ssa Fortina is responsible for the following courses: Microbiology and Microbiological Techniques, Bachelor degree in Food Science and Technology; Biotechnology of microorganisms module, Master’s degree in Food Science and Technology. During his didactical activity, Prof.ssa Fortina has been the supervisor of more than 80 bachelor and master degree theses, three PhD candidates in Food Biotechnology and she is now the supervisor of one PhD student in Food Systems.
- The scientific activity has been mostly carried out in the field of the Food and Agricultural Microbiology. The main activity is focused on: i) bacterial taxonomy, phylogenesis and microbial biodiversity; ii) biotechnological, functional and genotypic characterization of industrially relevant bacterial ecotypes. In particular, characterization of metabolic activity of technological interest in lactic acid bacteria, molecular typing and individuation of species/strain-specific genetic markers, evaluation of the presence of virulence/pathogenicity factors in emerging pathogens, development of quantitative PCR assay for bacterial detection in food matrices. The scientific activity of Prof.ssa Fortina is proven by more than 100 scientific publication on international journals and of presentations in national and international congresses, 1529 citations, h index 24 (SCOPUS data june 2018, Grazia Fortina-ORCID n. 0000-0002-3275-6000).

- Scientific coordinator of a research project financed by Lombardy Region, titled “Post bacterial genomics for the quality and safety of food ” (2010-2012); Scientific coordinator of a research project financed by Provincia di Novara (Piemonte Region) titled “ Microbiological study of the Mottarone Toma cheese, in order to characterize the origin and typicity of a traditional Italian dairy product” (2008-2009); Scientific coordinator of a research project financed by LoFarma SpA titled “ Development of transformation methods for the expression of allergens in Food-grade microorganisms” (2008-2009); Scientific coordinator of a research project financed by RDE Srl titled “ Development of alternative methodologies for monitoring microbial growth in complex systems” (2007-2008); Scientific coordinator of a national project PRIN titled “ Safety in the typicity of food products of animal origin: detection and study of emerging contaminating bacterial ecotypes (2004-2006).

## SELECTED PUBLICATIONS

- QUATTRINI M., BERNARDI C., STUKNYTĖ M., MASOTTI F., PASSERA A., RICCI G., VALLONE L., DE NONI I., BRASCA M., FORTINA M.G. (2018) Functional characterization of *Lactobacillus plantarum* ITEM 17215: A potential biocontrol agent of fungi with plant growth promoting traits, able to enhance the nutritional value of cereal products. *Food Research Intern.* 106, 935-944 <https://doi.org/10.1016/j.foodres.2018.01.074>
- ERACLIO G., RICCI G., QUATTRINI M., MORONI P., FORTINA M.G. (2017) Detection of virulence related genes in *Lactococcus garvieae* and their expression in response to different conditions. *Folia Microbiol.* (<https://doi.org/10.1007/s12223-017-0566-z>) 2018 vol. 63 pp. 291-298 □
- GARDIKIS, K., SIGNORELLI, M., FERRARIO, C., SCHIRALDI, A., FORTINA, M.G., HATZIANTONIOU, S., DEMETZOS, C., FESSAS, D. (2017) Microbial biosensors to monitor the encapsulation effectiveness of Doxorubicin in chimeric advanced Drug Delivery Nano Systems: A calorimetric approach. *Intern J Pharmaceutics*, 516 (1-2), 178-184. DOI: 10.1016/j.ijpharm.2016.11.033 □
- ERACLIO, G., FORTINA, M.G., LABRIE, S.J., TREMBLAY, D.M., MOINEAU, S. Characterization of prophages of *Lactococcus garvieae* (2017) *Scientific Reports*, 7, 1856, DOI: 10.1038/s41598-01702038-y □
- DECIMO, M., QUATTRINI, M., RICCI, G. FORTINA, M.G., BRASCA, M., SILVETTI, T., MANINI, F, ERBA, D, CRISCUOLI, F., CASIRAGHI, M.C. (2017) Evaluation of microbial consortia and chemical changes in spontaneous maize bran fermentation. *AMB Express*, 7: 205 DOI 10.1186/s13568-017-0506-y □
- ERACLIO G, TREMBLAY D.M., LACELLE-CÔTÉ A., LABRIE S.J., FORTINA M.G., MOINEAU S. (2015). A new virulent phage infecting *Lactococcus garvieae*, with homology to *Lactococcus lactis* phages. *Appl. Environ. Microbiol.* doi:10.1128/AEM.02603-15 □
- ERACLIO G., RICCI G., FORTINA M.G. (2015). Insertion sequence elements in *Lactococcus garvieae*. *Gene*, <http://dx.doi.org/10.1016/j.gene.2014.11.019> - 555 :291-296 □
- KOIRALA R., TAVERNITI V., BALZARETTI S., RICCI G., FORTINA M.G., GUGLIELMETTI S. (2015). Melting curve analysis of a groEL fragment for rapid genotyping of strains belonging to *Lactobacillus casei* group of species. *Microbiol. Research*, 173: 50-58 doi:10.1016/j.micres.2015.01.001 □
- KOIRALA R., RICCI G., TAVERNITI V., FERRARIO C., MALLA R., SHRESTHA S., FORTINA M.G., GUGLIELMETTI S. (2014) Isolation and molecular characterization of lactobacilli from traditional fermented Dahi produced at different altitudes in Nepal. *Dairy Sci. & Technol* DOI 10.1007/s13594014-0167-4. 94: 397-408 □
- FERRARIO C., BORGIO F., de las RIVAS B., MUNOZ R., RICCI G., FORTINA M.G. (2014). Sequencing, characterization and gene expression analysis of the histidine decarboxylase gene cluster of *Morganella morganii*. *Current Microbiol.* doi: 10.1007/s00284-013-0490-7; 68, (3) 404-411
- □ FERRARIO C., RICCI G., MILANI C., LUGLI G.A., VENTURA M., ERACLIO G., BORGIO F., FORTINA M.G. (2013) *Lactococcus garvieae*: Where Is It From? A First Approach to Explore the Evolutionary History of this Emerging Pathogen. *PlosOne* 8 (12): e84796. Doi: 10.1371/journal.pone.0084796 □
- BORGIO F., CARPEN A., FERRARIO C., IAMETTI S., FORTINA M.G. (2013). Genomic analysis reveals the biotechnological ability of *Enterococcus italicus* to produce glutathione. *J Ind Microbiol & Biotechnol*, 40: 489-494 □
- RICCI G., FERRARIO C., BORGIO F., ERACLIO G., FORTINA M.G. (2013). Genome sequences of two *Lactococcus garvieae* strains isolated from meat. *Genome Announc.* 1(1):e00018-12. doi:10.1128/genomeA.00018-12. □
- BORGIO F., FERRARIO C., RICCI G., FORTINA M.G. (2013). Genotypic intraspecies heterogeneity of *Enterococcus italicus*: data from dairy environments *J. Basic Microbiol.* 53: 20-28 □
- RICCI G., FERRARIO C., BORGIO F., ROLLANDO A., FORTINA M.G. (2012). Genome sequences of *Lactococcus garvieae* TB2.5 isolated from Italian cheeses and *Lactococcus garvieae* LG9 isolated from Italian rainbow trout. *J. Bacteriol.* 194: 1249-1250 □
- FERRARIO C., RICCI G., BORGIO F., ROLLANDO A., FORTINA M.G. Genetic investigation within *Lactococcus garvieae* revealed two genomic lineages. *FEMS Microbiol. Lett.* 332: 153-161

## Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date *Milano, November 7<sup>th</sup> 2018*

Signature

A handwritten signature in black ink, appearing to read "MG Fortina", written in a cursive style.