

PERSONAL INFORMATION

Family name, First name: **Ercolini Danilo**

Date of birth: **28/09/1975**

RCLDNL75P28F839M

Researcher ID: B-2431-2009 **ORCID:** <http://orcid.org/0000-0003-3061-9560>

GoogleScholar: <http://scholar.google.com/citations?user=SL5qGTQAAAAJ>

Bibliometric record (source Scopus)

Number of publications since 2001: **163**

Number of citations: **ca. 9,400**

H index: **55**

Bibliometric record (source GoogleScholar)

Number of citations: **ca. 14,000**

H index: **65**

EDUCATION

2003 – PhD in Food Sciences, University of Naples Federico II – Italy.

1999 – MSc in Food Science and Technology

CURRENT POSITION

2015 – to date **Full Professor of Microbiology**

Department of Agricultural Sciences, University of Naples Federico II – Italy.

PREVIOUS POSITION

2002 – 2011 - **Lecturer in Microbiology**

Faculty of Biotechnological Sciences, University of Naples Federico II – Italy.

2011 – 2015 – **Associate Professor of Microbiology**

Department of Agricultural Sciences, University of Naples Federico II – Italy.

FELLOWSHIPS AND AWARDS

2001 – 2002 - Marie Curie Fellowship grant - Division of Food Science, School of Biosciences, the University of Nottingham, UK. Supervisor: Prof. Christine E.R. Dodd.

2004 - Mobility grant - Laboratory of Microbiology, University of Wageningen, The Netherlands. Supervisor: Prof. Willem M. De Vos.

2010 – Montana Award (€ 75,000), received from Montana Alimentari, Italy. Awarded project title: “Obesity and sensory perception: role of the composition of saliva in aroma release and perception”.

FUNDING ID

Scientific Responsibility (local Principal Investigator) of research grants

2019 (ongoing). H2020-SFS-2018-2020- LC-SFS-03-2018 – MASTER: Microbiome Applications for Sustainable food systems through Technologies and EnteRprise. Funded by the European Commission under the H2020 program. Grant agreement No. 818368 .

€ 470.000,00.

2019 (ongoing). Microbiome-tailored food products based on typical Mediterranean Diet components. Funded by the Italian Ministry of University and Research.

€ 142.000,00.

2019 (ongoing). JPI – Healthy diet for a healthy life (HDHL)-Intestinal Microbiomics (INTIMIC) Knowledge Platform on Food, Diet, Intestinal Microbiomics and Human Health. Funded by the Italian Ministry of Ministry of Agricultural, Food and Forestry Policies.

€ 24.000,00.

2016 (ongoing). JPI – Healthy diet for a healthy life. JPI – Microbiomics 2016. EU-project: Diet-induced Arrangement of the gut Microbiome for Improvement of Cardiometabolic health – **DINAMIC** (2016-2019). Funded by the Italian Ministry of University and Research. Mediterranean diet intervention in overweight and obese subjects.

€ 200.000,00.

2016 (ongoing). Scientific Study Protocol SPES “Campania Trasparente – Integrated monitoring of Campania Region” – Evaluation of gut microbiota in individuals living in different areas of exposure to environmental contamination – **MICRO-SPES**. Funded by Campania Region.

€ 186.000,00.

-2012-2015. Microorganisms in food and in humans: study of microbiota and metabolome in individuals with omnivore, vegetarian and vegan diets – **DIET4MICROGUT**. Funded by the Italian Ministry of University and Research.
€ 135.000,00.

-2008-2011. Scientific sYnergisM of nano-Bio-Info-cOgni Science for an Integrated system to monitor meat quality and Safety during production, storage, and distribution in EU - **SYMBIOSIS-EU** (FP7-KBBE-2007-1).
€ 390.500.

Passed but not funded

ERC 2010: “Microbial gene expression of spoilage-related activities in food: the molecular basis of food spoilage - MicroGeneExFood” - ERC (European Research Council) Starting Grant. The project went through all phases including grant defense. It took an A grade, judged fundable but not funded because of budget limitations.

Grants from other Institutions and Companies

Altogether worth ca. € 400.000.

- 2019. Design of frozen pre-leavened croissants and muffins for improved gut microbiota diversity. Fresystem S.p.a., Naples, Italy.
- 2019. Microbiota mapping of the food processing environment in icecream lines. Unilever-IT, Caivano, Italy.
- 2018. Optimization of gluten-free croissants using alternative flours. Aquaviva S.p.A., Gricignano, Italy.
- 2016. Optimization of natural leavening of croissants using alternative flours with increased fiber content. Aquaviva S.p.A., Gricignano, Italy.
- 2015. Amplicon sequencing of 16S rRNA genes from fecal metagenomic DNA. Istituto Zooprofilattico Sperimentale del Mezzogiorno, Italy.
- 2013-2014: Application of metagenomics and MLVA for the epidemiological studies of animal vectors in Q fever. Istituto Zooprofilattico Sperimentale del Mezzogiorno, Italy.
- 2014. Evaluation of the microbiota of grapes and must for wine production. University of Turin, Italy.
- 2014. Evaluation of the microbiota of dairy samples during pasta-filata cheese production. University of Basilicata, Italy.
- 2014. Evaluation of the microbiota in sourdough for bread production from different types of flour. Mediterranean Agronomic Institute, Bari, Italy.
- 2013. Molecular characterization of natural sourdough for the production of frozen pre-leavened croissants. Fresystem S.p.a., Naples, Italy.
- 2013. Evaluation of the gut microbiota in women affected by breast cancer – study DIANA5. University of Basilicata, Italy.
- 2013. Evaluation of the gut microbiota in children affected by cystic fibrosis. Ospedale Pediatrico bambino Gesù, Roma, Italy.
- 2012. Development of antimicrobial packaging for fresh meat storage. Macello Abagnale S.p.a.

- 2012. Technological characterization of strains of *Streptococcus thermophilus* and *Lactobacillus helveticus* to be used as starter cultures for dairy products. Mediterranea Biotecnologie S.r.l. Termoli, Italy.
- 2010. Molecular typing and characterization of lactic acid bacteria from milk cultures for the production of Italic cheese. Mediterranea Biotecnologie S.r.l. Termoli, Italy.
- 2010. Evaluation of antimicrobial activity of microfiber cloths for surface cleaning. Eudorex S.r.l., Acerra, Italy.
- 2007-to date. Evaluation of microbial diversity in natural whey cultures for the evaluation of the authenticity of Caciocavallo Silano cheese. ISMECERT –Istituto Mediterraneo di Certificazione Alimentare. Naples, Italy.
- 2000. National Council of Research (CNR) Young investigator grant: Application of denaturing electrophoresis for the evaluation of microbial diversity in natural whey cultures for the production of traditional cheeses. CNR, Rome, Italy.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

to date: Supervised more than 10 Postdocs 14 PhD and 35 MSc Students.

International students and Postdocs were hosted in my Department for research stays under my supervisions: (i) Dr. Pilar Martinez-Viedma, Department of Health Science, University of Jaen, Spain; (ii) Dr. Agapi Doulgeraki, Agricultural University of Athens, Greece; (iii) Dr. A. Handan Baysal, Izmir Institute of Technology, Department of Food Engineering, Izmir, Turkey; (iv) Sarahi del Carmen Rangel Ortega Centro de Investigacion en Alimentacion y Desarrollo A.C. (CIAD A.C.), Hermosillo, Mexico; (v) Vasileios Pothakos University of Gent Belgium; (vi) Julia Toled de Arbol, University of Jaen, Spain; (vii) Narciso Martin University of Burgos, Spain; (viii) Bruna Kamimura, University of Campinas, Brazil, (ix) Beatriz Belero Gil, University of Burgos, Spain; (x) Beatriz Severino da Silva, University of Campinas, Brazil.

PATENTS

IT1405272-B. Long-life packaged food product and the related preparation method. 2011.

INVITATION TO INTERNATIONAL CONFERENCES AND EVENTS**Invited speaker**

2020 - FoodMicro2020 - Next-generation challenges in food microbiology. Athens (Gr) 7-10 September.

2020 - 13th International Symposium on Lactic Acid Bacteria, Egmond aan Zee, the Netherlands, 23-27 August.

2019 - FEMS conference 2019 - Glasgow (UK) 8-12 July 2019. Bridging food and gut health: prevalence and functional traits of lactic acid bacteria and probiotics in the gut microbiome.

2019 - 10th Probiotics, prebiotics and new foods - Rome (Italy) 9-11 September
Healthy food/Junk food, Mediterranean Diet and Microbiome.

2017 - 9th Probiotics, prebiotics and new foods - Rome (Italy) 10-12 September
Mediterranean Diet and Microbiome.

2017 - MikroBioKosmos Society conference 2017 - Athens (Greece) 7-9 April
Diet and Gut Microbiome.

2017 - Ancel Keys seminar on Mediterranean diet - Ascea (Italy) 9-13 October
Mediterranean Diet and Microbiome.

2017 - FEMS conference 2017 - Valencia (Spain) 9-13 July 2017. The origin of the food microbiome: processing environment as source of contamination.

2015 - ICoMST (International congress of meat science and technology). Clermont-Ferrand (France) 23-28 August 2015. The microbiota associated to meat spoilage: succession, activities and possible contamination sources.

2015 - Society for Applied Microbiology (SfAM) 2015 Summer Conference. Dublin 29 June - 2 July 2015. Study of food fermentations by metagenomics sequencing-based approaches.

2014 - Convenor and Invited Speaker at ISME 15 Seoul - South Korea, 24-29 August 2015. Title of contribution to be defined.

2013 - Spoilers 2013, Quimper, France, 1-3 July. Changes in structure and metabolic activities of spoilage-related microbiota of foods according to different storage conditions.

2006 - II International Symposium on Lactic Acid Bacteria. Tucumán, Argentina,

11-13 Oct. 2006 - Food quality and authenticity: the traces left by bacteria.

2004 - Food Safety under Extreme Conditions, Jaén, Spain, 6-8 Sept. 2004.
Molecular tracing of microbiological quality of fermented foods: what can we get from PCR-DGGE fingerprinting?

Invitation for Seminar at international advanced schools

2012 –Finnish Centre of Excellence in Microbial Food Safety Research (CoE-MiFoSa), University of Helsinki.

INSTITUTIONAL RESPONSIBILITIES

2017 –Coordinator – Task Force on Microbiome Studies – University of Naples Federico II.

2016 – Coordinator – PhD school in Food Science - University of Naples Federico II.

2016 – Member of the National committee for the Scientific Evaluation of candidates qualified for Associate and Full Professor positions in Microbiology – Ministry of University and Research, Italy.

2016 – Member of the Evaluation Panel for Research Funding - University of Naples Federico II.

2015 – Member of the managing board of Evaluation of Research Quality – Department of Agricultural Sciences - University of Naples Federico II.

2012 – Scientist in Charge of the High-throughput sequencing facility at the Department of Agricultural Sciences, University of Naples Federico II – Naples, Italy.

2002-2012 - Faculty member, University of Naples Federico II, Italy, School of Biotechnological Sciences.

2003-2010 – Member of Internationalization Board - University of Naples Federico II, Italy.

2010 – to date: National delegate (Italy) within the International Committee on Food Microbiology and Hygiene (ICFMH).

2010-2012 – Member - Council of the Life Sciences, University of Naples Federico II, Italy.

PhD EVALUATIONS AT INTERNATIONAL INSTITUTIONS

2008 – PhD Scientific Evaluator and Jury member – University of Jaen, Spain

2010 – PhD Scientific Evaluator and Jury member – University of Jaen, Spain

2010 - PhD Scientific Evaluator and Jury member – University of Nottingham, UK

2013 - PhD Scientific Evaluator and Jury member – University of Nottingham, UK

2014 - PhD Scientific Evaluator and Jury member – University of Gent, Belgium

2015 - PhD Scientific Evaluator and Jury member – University of Jaen, Spain

2015 - PhD Scientific Evaluator and Jury member – University of Burgos, Spain

2015 - PhD Scientific Evaluator and Jury member – University College Cork, Ireland

INTERNATIONAL BOARDS

2016-to date: Member of the **Scientific Advisory Board** – Metaprogramme MEM
– Meta-omics and microbial Ecosystems – **INRA**, France.

EDITORIAL BOARDS

2019 – to date: **Editor** - Applied and Environmental Microbiology.

2011 – to date: **Associate Editor** – Frontiers in Microbiology.

2014 – to date: **Academic Editor** – PLOS ONE.

2016 – to date: **Associate Editor** – mSystems.

2007 – 2019: **Editorial Board Member** – Applied and Environmental Microbiology (Q1 ranking – category Biotechnology and Applied Microbiology).

2008 – to date: **Editorial Board Member** – International Journal of Food Microbiology (Q1 ranking – category Food Science).

2010 – to date: **Editorial Board Member** – Food Microbiology (Q1 ranking – category Biotechnology and Applied Microbiology).

2012 – 2014: **Editorial Board Member** – Journal of Food Protection.

2014 – to date: **Editorial Board Member** – Current Opinion in Food Science.

2015 – to date: **Editorial Board Member** – Microbial Biotechnology.

2012 – **Member of the Scientific Advisory Board** - the Encyclopedia of Food Microbiology 3rd Edition published by Elsevier in April 2014.

2012 – **Section Editor** “Molecular Biology” and “Identification Methods” - the Encyclopedia of Food Microbiology 3rd Edition published by Elsevier in April

2014.

PROJECT PROPOSAL EVALUATOR

International funding

2011 - Project evaluator - EU under the 7th Frame programme - collaborative project call "Food, Agriculture and Fisheries, and Biotechnology".

2012 - Project evaluator - ISF – International Science Foundation.

2012 - Project evaluator - General Secretariat for Research and Technology (G.S.R.T.) of Greece

2013 - Project evaluator - Teagasc, Agriculture and food development authority in Ireland.

2013 - Project evaluator - Walsh Fellowship application - Ireland.

2013 - Project evaluator - WWTF - Vienna Science and Technology Fund, Austria.

2014-to date. FWO Research grants, Belgium.

2015 - Marie Curie fellowship – University of Liege, Belgium.

2015 - Food for Tomorrow - INRA, France.

2015-to date. AgreenSkills National Institute for Agricultural Research, France.

Italian funding

2008 - Project evaluator - Piedmont Region, Italy.

2010 – to date. Project evaluator - Italian Ministry of University and Research.

2012 – to date. Project evaluator - Italian Ministry of Development.

2012 - Project evaluator - Lombardy Region, Italy.

2013 - to date. Project evaluator - Sardinia Region, Italy.

2014 - to date. Project evaluator – Emilia-Romagna Region, Italy.

List of Publications

1. Blaiotta, G., **Ercolini, D.**, Simeoli, E., Moschetti, G., and Villani, F. (2000) Conditions for conjugative transposon transfer in *Lactococcus lactis*. *Letters in Applied Microbiology* 31: 343-348.
2. Coppola, S., Blaiotta, G., **Ercolini, D.** and Moschetti, G. (2001) Molecular evaluation of microbial diversity occurring in different types of Mozzarella cheese. *Journal of Applied Microbiology* 90: 414-420.
3. **Ercolini, D.**, Moschetti, G., Blaiotta, G. and Coppola, S. (2001) Behavior of variable V3 region from 16S rDNA of important lactic acid bacteria in denaturing gradient gel electrophoresis. *Current Microbiology* 42: 199-202.
4. **Ercolini, D.**, Moschetti, G., Blaiotta, G. and Coppola, S. (2001) The potential of a polyphasic PCR-DGGE approach in evaluating microbial diversity of Natural Whey Cultures for water-buffalo Mozzarella cheese production: bias of "culture dependent" and "culture independent" approaches. *Systematic and Applied Microbiology* 24: 610-617.
5. **Ercolini, D.**, Blaiotta, G., Moschetti, G. and Coppola, S. (2002) Molecular typing of cheeses on the basis of their microflora as detected by PCR-DGGE analysis. *Annals of Microbiology* 52: 81-87.
6. **Ercolini, D.**, Hill, P. J. and Dodd, C. E. R. (2003) Development of a fluorescence in situ hybridization method in cheese using a 16S rRNA probe. *Journal of Microbiological Methods* 52: 267-271.
7. **Ercolini, D.**, Hill, P. J. and Dodd, C. E. R. (2003) Bacterial community structure and location in Stilton cheese. *Applied and Environmental Microbiology* 69: 3540-3548.
8. Mauriello, G., Moio, L., Genovese, A. and **Ercolini, D.** (2003) Relationships between flavouring capabilities, bacterial composition and geographical origin of Natural Whey Cultures (NWCs) used for traditional water-buffalo Mozzarella cheese manufacture. *Journal of Dairy Science* 86: 486-497.
9. Blaiotta, G., Pennacchia, C., **Ercolini, D.**, Moschetti, G. and Villani, F. (2003) Combining denaturing gradient gel electrophoresis of 16S rDNA V3 region and 16S-23S rDNA spacer region polymorphism analyses for the

- identification of staphylococci from Italian fermented sausages. *Systematic and Applied Microbiology* 26: 423-433.
10. Pennacchia, C., **Ercolini, D.**, Blaiotta, G., Pepe, O., Mauriello, G. and Villani F. (2004) Selection of *Lactobacillus* strains from fermented sausages for their potential use as probiotics. *Meat Science* 67: 309-317.
 11. **Ercolini, D.**, Mauriello, G., Blaiotta, G., Moschetti, G. and Coppola, S. (2004) PCR-DGGE fingerprints of microbial succession during a manufacture of traditional water buffalo Mozzarella cheese. *Journal of Applied Microbiology* 96: 263-270.
 12. **Ercolini, D.** (2004) PCR-DGGE fingerprinting: novel strategies for detection of microbes in food. Review article. *Journal of Microbiological Methods* 56: 297-314.
 13. **Ercolini, D.**, Blaiotta, G., Fusco, V. and Coppola, S. (2004) PCR-based detection of enterotoxigenic *Staphylococcus aureus* in the early stages of raw milk cheese making. *Journal of Applied Microbiology* 96: 1090-1096.
 14. Pepe, O., Blaiotta, G., Anastasio, M., Moschetti, G., **Ercolini, D.** and Villani, F. (2004) Technological and molecular diversity of *Lactobacillus plantarum* strains isolated from naturally fermented sourdoughs. *Systematic and Applied Microbiology* 27: 443-453.
 15. Mauriello G., **Ercolini, D.**, La Storia, A., Casaburi, A. and Villani, F. (2004) Development of polyethylene films for food packaging activated with an antilisterial bacteriocin from *Lactobacillus curvatus* 32Y. *Journal of Applied Microbiology* 97: 314-322.
 16. Mariniello, L., Sommella, M.G., Cozzolino, A., Di Pierro, P., **Ercolini, D.**, and Porta, R. (2004) Identification of Campania *Citrus limon* L. by Random Amplified Polymorphic DNA markers. *Food Biotechnology* 18: 289-297.
 17. Blaiotta, G., **Ercolini, D.**, Pennacchia, C., Fusco, V., Casaburi, A., Pepe, O. and Villani, F. (2004) PCR detection of staphylococcal enterotoxin genes in *Staphylococcus* spp. strains isolated from meat and dairy products. Evidence of new variants of *seG* and *seI* in *S. aureus* AB-8802. *Journal of Applied Microbiology* 97: 719-730.
 18. Blaiotta, G., **Ercolini, D.**, Mauriello, G., Salzano, G. and Villani, F. (2004) Rapid and reliable identification of *Staphylococcus equorum* strains by a

- PCR assay targeting on *sodA* gene. *Systematic and Applied Microbiology* 27: 696-702.
19. Villani, F., Russo, F., Blaiotta, G., Moschetti, G. and **Ercolini, D.** (2005) Presence and characterisation of verotoxin producing *E. coli* in fresh Italian pork sausages, and preparation and use of an antibiotic-resistant strain for challenge studies. *Meat Science* 70: 181-188.
 20. Mauriello, G., De Luca, E., La Storia, A., Villani, F. and **Ercolini D.** (2005) Antimicrobial activity of a nisin-activated plastic film for food packaging. *Letters in Applied Microbiology* 41: 464-469.
 21. **Ercolini, D.**, Fusco, V., Blaiotta, G. and Coppola, S. (2005) Sequence heterogeneity in the *lacSZ* operon of *Streptococcus thermophilus* and its use in PCR systems for strain differentiation. *Research in Microbiology* 156: 161-172.
 22. **Ercolini, D.**, Fusco, V., Blaiotta, G., Sarghini, F. and Coppola, S. (2005) Response of *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhimurium* and *Staphylococcus aureus* to the thermal stress occurring during the manufacture of Grana Padano cheese. *Journal of Dairy Science* 88: 3818-3825.
 23. **Ercolini, D.**, La Storia, A., Villani, F. and Mauriello, G. (2006) Effect of a bacteriocin-activated polyethylene film on *Listeria monocytogenes* as evaluated by viable staining and epifluorescence microscopy. *Journal of Applied Microbiology* 100: 765-772.
 24. Coppola, S., Fusco, V., Andolfi, R., Aponte, M., Blaiotta, G., **Ercolini, D.** and Moschetti, G. (2006). Evaluation of microbial diversity during the manufacture of "Fior di Latte di Agerola", a traditional raw milk pasta-filata cheese of Naples area. *Journal of Dairy Research* 73: 264-272.
 25. Borriello, G., Capparelli, R., Bianco, M., Fenizia, D., Alfano, F., Capuano, F., **Ercolini, D.**, Parisi, A., Roperto, S. and Iannelli D. (2006). Genetic Resistance to *Brucella abortus* in Water Buffalo (*Bubalus bubalis*). *Infection and Immunity* 74: 2115-2120.
 26. **Ercolini, D.**, Russo, F., Torrieri, E., Masi, P. and Villani, F. (2006) Changes in the spoilage-related microbiota of beef during refrigerated storage

- under different packaging conditions. *Applied and Environmental Microbiology* 72: 4663-4671.
27. Russo, F., **Ercolini, D.**, Mauriello, G. and Villani, F. (2006). Behaviour of *Brochothrix thermosphacta* in presence of other meat spoilage microbial groups. *Food Microbiology* 23: 797-802.
28. **Ercolini, D.**, Villani, F., Aponte, M. and Mauriello, G. (2006). Fluorescence *in situ* hybridization detection of *Lactobacillus plantarum* group on olives to be used in natural fermentations. *International Journal of Food Microbiology* 112: 291-296.
29. Bottari, B., **Ercolini, D.**, Gatti, M. and Neviani, E. (2006) Application of FISH technology for microbiological analysis: current state and prospects. *Applied Microbiology and Biotechnology* 73: 485-494.
30. Casaburi, A., Aristoy, M.-C., Cavella, S., Di Monaco, R., **Ercolini, D.**, Toldrà, F., and Villani, F. (2007) Biochemical and sensory characteristics of traditional fermented sausages of Vallo di Diano (Southern Italy) as affected by use of starter cultures. *Meat Science* 76: 295-307.
31. **Ercolini, D.**, Russo, F., Blaiotta, G., Pepe, O., Mauriello, G., and Villani, F. (2007) Simultaneous detection of *Pseudomonas fragi*, *P. lundensis* and *P. putida* from meat by a multiplex PCR assay targeting the *carA* gene. *Applied and Environmental Microbiology* 73: 2354-2359.
32. Di Pasqua, R., Betts, G., Hoskins, N., Edwards, M., **Ercolini D.**, and Mauriello, G. (2007). Membrane toxicity of natural antimicrobial compounds from essential oils. *Journal of Agriculture and Food Chemistry* 55: 4863-4870.
33. Di Maro, E., **Ercolini, D.**, and Coppola, S. (2007). Yeast dynamics during spontaneous wine fermentation of the Catalanesca grape. *International Journal of Food Microbiology* 117:201-210.
34. Villani, F., Casaburi, A., Pennacchia, C., Filosa, L., Russo, F., and **Ercolini, D.** (2007) Study of the microbial ecology of the “Soppressata of Vallo di Diano”, a traditional dry fermented sausage from Southern Italy, and *in vitro* and *in situ* selection of autochthonous starter cultures. *Applied and Environmental Microbiology* 73:5453-5463.

35. Casaburi, A., Di Monaco, R., Cavella, S., Toldrá, F., **Ercolini, D.**, and Villani, F. (2008) Proteolytic and lipolytic starter cultures and their effect on traditional fermented sausages ripening and sensory traits. *Food Microbiology* 25:335-347.
36. Blaiotta, G., Fusco, V., **Ercolini, D.**, Aponte, M., Pepe, O. and Villani, F. (2008). *Lactobacillus* strain diversity based on partial *hsp60* gene sequences and design of PCR-restriction fragment length polymorphism assays for species identification and differentiation. *Applied and Environmental Microbiology* 74:208-215.
37. La Storia, A., **Ercolini, D.**, Marinello, F. and Mauriello, G. (2008) Characterization of bacteriocin activated antimicrobial polyethylene films by Atomic Force Microscopy. *Journal of Food Science* 73:T48-T54.
38. **Ercolini, D.**, Frisso, G., Mauriello, G., Salvatore F. and Coppola, S. (2008) Microbial diversity in Natural Whey Cultures for the production of Caciocavallo Silano PDO cheese. *International Journal of Food Microbiology* 124:164-170.
39. **Ercolini, D.**, Russo, F., Nasi, A., Ferranti, P., and Villani, F. (2009) Mesophilic and psychrotrophic bacteria from meat and their spoilage potential *in vitro* and in beef. *Applied and Environmental Microbiology* 75:1990-2001.
40. **Ercolini, D.**, Russo, F., Ferrocino, I., and Villani, F. (2009) Molecular identification of mesophilic and psychrotrophic bacteria from raw cow's milk. *Food Microbiology* 26:228-231.
41. Siragusa, S., Di Cagno, R., **Ercolini, D.**, Minervini, F., Gobbetti, M., and De Angelis, M. (2009) Taxonomic structure and monitoring of the dominant lactic acid bacteria population in wheat flour type I sourdough propagation by using *Lactobacillus sanfranciscensis* starters. *Applied and Environmental Microbiology* 75:1099-1109.
42. Pennacchia, C., **Ercolini, D.**, and Villani, F. (2009) Development of a specific Real-Time PCR assay for the detection of *Brochothrix thermosphacta* in fresh and spoiled raw meat. *International Journal of Food Microbiology* 134:230-236.

43. Ferrocino, I., **Ercolini, D.**, Villani, F., Moorhead, S.M., and Griffiths, M.W. (2009) *Pseudomonas fragi* strains isolated from meat do not produce *N*-acyl homoserine lactones as signal molecules. *Journal of Food Protection* 72:2597-2601.
44. **Ercolini, D.**, Ferrocino, I., La Storia, A., Mauriello, G., Gigli, S., Masi, P. and Villani, F. (2010) Development of spoilage microbiota in beef stored in nisin-activated packaging. *Food Microbiology* 27:137-143.
45. Martinez Viedma, P., **Ercolini, D.**, Ferrocino, I., Abriouel, H., Ben Omar, N., Lucas López, R., and Gálvez, A. (2010) Effect of polythene film activated with enterocin EJ97 in combination with EDTA against *Bacillus coagulans*. *LWT - Food Science and Technology* 43:514-518.
46. Capparelli, R., Nocerino, N., Iannaccone, M., **Ercolini, D.**, Parlato, M., Medaglia, C. and Iannelli D. (2010) Phage therapy of *Salmonella enterica*: a fresh appraisal of phage therapy. *Journal of Infectious Diseases* 201:52-61.
47. Di Pasqua, R., Mamone, G., Ferranti, P., **Ercolini, D.** and Mauriello G. (2010) Changes in the proteome of *Salmonella enterica* serovar Thompson as stress adaptation to sublethal concentrations of thymol. *Proteomics* 10:1040-1046.
48. Blaiotta, G., Fusco, V., **Ercolini, D.**, Pepe, O. and Coppola, S. (2010) Diversity of *Staphylococcus* spp. strains based on partial *kat* (catalase) gene sequences and design of a PCR-RFLP assay for identification and differentiation of coagulase-positive species (*S.aureus*, *S. delphini*, *S. hyicus*, *S. intermedius*, *S. pseudintermedius*, and *S. schleiferi* subsp. *coagulans*). *Journal of Clinical Microbiology* 48:192-201.
49. Zinno, P., Janzen, T., Bennedsen, M., **Ercolini, D.** and Mauriello, G. (2010) Characterization of *Streptococcus thermophilus* lytic bacteriophages from Mozzarella cheese plants. *International Journal of Food Microbiology*. 138:137-144.
50. Lo Piccolo, S., Ferraro, V., Alfonzo, A., Settanni, L., **Ercolini, D.**, Burruolo, S., and Moschetti, G. (2010) Presence of endophytic bacteria in *Vitis vinifera* leaves as detected by Fluorescence *in situ* hybridization. *Annals of Microbiology* 60:161-167.

51. **Ercolini, D.**, Casaburi, A., Nasi, A., Ferrocino, I., Di Monaco, R., Ferranti, P., Mauriello, G. and Villani, F. (2010) Different molecular types of *Pseudomonas fragi* have the same overall behaviour as meat spoilers. *International Journal of Food Microbiology* 142:120-131.
52. Pennacchia, C., **Ercolini, D.**, and Villani, F. (2011) Spoilage-related microbiota associated with chilled beef stored in air or vacuum pack. *Food Microbiology* 28:84-93.
53. La Storia, A., **Ercolini, D.**, Marinello, F., Di Pasqua, R., Villani, F. and Mauriello, G. (2011). Atomic force microscopy analysis shows surface structure changes in carvacrol-treated bacterial cells *Research in Microbiology*. 162:164-172.
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