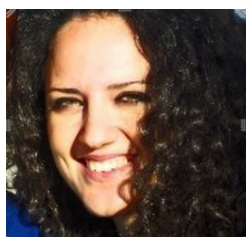


Curriculum vitae et studiorum

Grazia Marina Quero



Born in Bari (Italy) on 30/12/1982

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Current Position: Fixed-term Researcher (Ricercatore a Tempo Determinato)

Current Affiliation:

Section Integrated Marine Ecology, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

| Institute and Location | Degree / Function | Year | Field of Study |
|--|--------------------------|--------------|---|
| Bachelor degree in Biotechnological Sciences, University of Bari, Bari, Italy | Biotechnologist | 2001-2004 | Biotechnological sciences |
| Master degree in Biotechnological Sciences, University of Bari, Bari, Italy | Biotechnologist | 2004-2006 | Biotechnological sciences |
| Department of Soil, Plant and Food Sciences (DISSPA), University of Bari, Bari, Italy | Ph.D. | 2009-2011 | Food microbiology |
| Institute of Sciences of Food Production, National Research Council of Italy (ISPA-CNR), Bari, Italy | Postdoc | 2011-2012 | Molecular food microbiology |
| Institute of Marine Sciences, National Research Council of Italy (CNR-ISMAR), Venice, Italy | Postdoc | 2013-2017 | Marine Microbiology and Microbial Ecology |
| Stazione Zoologica Anton Dohrn, Napoli, Italy | Researcher | 2017-present | Marine Microbial Ecology |

Awards

2016: Winner of UNASA Award (Unione Nazionale delle Accademie per le Scienze Applicate allo Sviluppo dell'Agricoltura, alla Sicurezza Alimentare ed alla Tutela Ambientale) 2016 for the article

Understanding the association of Escherichia coli with diverse macroalgae in the lagoon of Venice.
Quero G.M., Fasolato L., Vignaroli C., Luna G.M. 2015. Scientific Reports, 5:10969,
doi:10.1038/srep10969

Courses

2017: Euromarine Open Science Exploration (Emose) 2017 Edition internal Inter-Comparison Of Marine Plankton Metagenomic Methods. Porto (Portugal), 11-15 September 2017

2015: Micro B3 OSD Analysis Workshop. March 9th-13th 2015. EBI/ENA, Hinxton, UK

2014: Micro B3 summer school: from sampling to analyzing microbial diversity & function. 26 May-6 June 2014, HCMR (Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research), Heraklion/Gournes, Crete, Greece.

2014: Micro B3 Marine Metagenomics Bioinformatics. European Bioinformatics Institute (EMBL EBI), Hinxton Cambridge. 24-28 March 2014.

Teaching experiences

2015: JAMS 2015 The Omics Analysis Sydney Tutorial (TOAST) workshop
(<https://www.eventbrite.com.au/e/jams-2015-the-omics-analysis-sydney-tutorial-toast-registration-15447550038>), 23th – 24th February, Sydney, NSW (Australia).

2015: 6th International Course in Microbial Ecology, OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Trieste, 9-13 Novembre 2015.

2014: 5th International Course in Microbial Ecology, CNR-ISMAR, Venice (Italy), 5th - 10th October 2014 (<http://microbeco.org/M%26co%20-%20Venice%20course/index.html>).

Periods abroad:

2015: Metagenomic data analysis, Instituto Milenio de Oceanografia (IMO) (Concepcion, Chile), supervisor Prof. Osvaldo Ulloa

2013: Next Generation Sequencing data analysis, Benthic Ecogeochemistry Laboratory - Observatoire Oceanologique di Banyuls Sur Mer (France), supervisor Dr. Pierre Galand.

Oceanographic cruises:

2016: Marine Strategy Framework Directive – Tirreanean Sea. 15-25 July (I leg). Water sampling in photic zone for analyses of picoplankton, nanoplankton, microphytoplankton, microzooplankton, mesozooplankton.

2016: Ritmare IV anno – SAND (RISD16) 4-12 May, Southern Adriatic Sea and Ionian Sea. Sampling of deep sea sediments for the analysis of bacterial communities.

2015: Ocean Certain – Venus 3, 4-17 August (I leg), Western Mediterranean Sea. Water sampling in the photic zone and deep sea for the study of patterns of planktonic viruses and prokaryotes.

2013: BioLig – “Biodiversity, ecosystem functioning and pelagic-benthic coupling in Ligurian submarine canyons”. II Leg, 8 – 20 May 2013 (R/V Minerva Uno).

2014: RITMARE – Po Prodeltà . II Leg, 14-17 December 2014 (R/V Dallaporta). Water and sediment sampling in the Po river Prodeltà for the analyses of bacterial communities.

Publications

Author of 17 publications on ISI-journals (h index: 10) and 1 book chapter

List of publications of the last 10 years

Peer-reviewed publications:

Quero, G. M., Perini, L., Pesole, G., Manzari, C., Lionetti, C., Bastianini, M., Marini, M. & Luna, G. M. (2017). Seasonal rather than spatial variability drives planktonic and benthic bacterial diversity in a microtidal lagoon and the adjacent open sea. *Molecular Ecology*. Accepted manuscript, available online

Luna, G. M., Chiggiato, J., Quero, G. M., Schroeder, K., Bongiorno, L., Kalenitchenko, D., & Galand, P. E. (2016). Dense water plumes modulate richness and productivity of deep sea microbes. *Environmental microbiology*, 18(12), 4537-4548.

Luna, G. M., Quero, G. M., & Perini, L. (2016). Next generation sequencing reveals distinct fecal pollution signatures in aquatic sediments across gradients of anthropogenic influence. *Advances in Oceanography and Limnology*, 7(2).

Fusco, V., Quero, G. M., Chieffi, D., & Franz, C. M. (2016). Identification of *Lactobacillus brevis* using a species-specific AFLP-derived marker. *International Journal of Food Microbiology*, 232, 90-94.

Quero, G. M., Fasolato, L., Vignaroli, C., & Luna, G. M. (2015). Understanding the association of *Escherichia coli* with diverse macroalgae in the lagoon of Venice. *Scientific reports*, 5.

Quero, G. M., Cassin, D., Botter, M., Perini, L., & Luna, G. M. (2015). Patterns of benthic bacterial diversity in coastal areas contaminated by heavy metals, polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs). *Frontiers in Microbiology*, 6.

Perini, L., Quero, G. M., García, E. S., & Luna, G. M. (2015). Distribution of *Escherichia coli* in a coastal lagoon (Venice, Italy): temporal patterns, genetic diversity and the role of tidal forcing. *Water Research*, 87, 155-165.

Kopf, A., Bicak, M., Kottmann, R., Schnetzer, J., Kostadinov, I., Lehmann, K., ...Quero, G. M., ... & Wichels, A. (2015). The ocean sampling day consortium. *Gigascience*, 4(1), 27.

Di Lena, M., Quero, G. M., Santovito, E., Verran, J., De Angelis, M., & Fusco, V. (2015). A selective medium for isolation and accurate enumeration of *Lactobacillus casei*-group members in probiotic milks and dairy products. *International Dairy Journal*, 47, 27-36.

Fusco, V., Quero, G. M., Cho, G. S., Kabisch, J., Meske, D., Neve, H., ... & Franz, C. M. (2015). The genus *Weissella*: taxonomy, ecology and biotechnological potential. *Frontiers in Microbiology*, 6.

Quero, G. M., & Luna, G. M. (2014). Diversity of rare and abundant bacteria in surface waters of the Southern Adriatic Sea. *Marine Genomics*, 17, 9-15.

- Fusco, V., & Quero, G. M. (2014). Culture-Dependent and Culture-Independent Nucleic-Acid-Based Methods Used in the Microbial Safety Assessment of Milk and Dairy Products. *Comprehensive Reviews in Food Science and Food Safety*, 13(4), 493-537.
- Quero, G. M., Fusco, V., Coconcelli, P. S., Owczarek, L., Borcakli, M., Fontana, C., ... & Morea, M. (2014). Microbiological, physico-chemical, nutritional and sensory characterization of traditional Matsoni: selection and use of autochthonous multiple strain cultures to extend its shelf-life. *Food microbiology*, 38, 179-191.
- On, S. L. W., Brandt, S. M., Cornelius, A. J., Fusco, V., Quero, G. M., Maćkiw, E., ... & Megraud, F. (2013). PCR revisited: a case for revalidation of PCR assays for microorganisms using identification of *Campylobacter* species as an exemplar. *Quality Assurance and Safety of Crops & Foods*, 5(1), 49-62.
- Fusco, V., Riccardi, M., & Quero, G. M. (2012). Thin agar layer-versus most probable number-PCR to enumerate viable and stressed *Escherichia coli* O157: H7 and application in a traditional raw milk pasta filata cheese. *International Journal of Food Microbiology*, 159(1), 1-8.
- Baruzzi, F., Poltronieri, P., Quero, G. M., Morea, M., & Morelli, L. (2011). An in vitro protocol for direct isolation of potential probiotic lactobacilli from raw bovine milk and traditional fermented milks. *Applied Microbiology and Biotechnology*, 90(1), 331-342.
- Fusco, V., Quero, G. M., Stea, G., Morea, M., & Visconti, A. (2011). Novel PCR-based identification of *Weissella confusa* using an AFLP-derived marker. *International Journal of Food Microbiology*, 145(2), 437-443.
- Fusco, V., Quero, G. M., Morea, M., Blaiotta, G., & Visconti, A. (2011). Rapid and reliable identification of *Staphylococcus aureus* harbouring the enterotoxin gene cluster (*egc*) and quantitative detection in raw milk by real time PCR. *International Journal of Food Microbiology*, 144(3), 528-537.

Book Chapters:

- Fusco, V., & Quero, G. M. (2012). Nucleic acid-based methods to identify, detect and type pathogenic bacteria occurring in milk and dairy products. In *Structure and function of food engineering*. InTech