

## CURRICULUM VITAE GIUSEPPE MAZZARELLA

### PERSONAL INFORMATION

Surname, Name **MAZZARELLA GIUSEPPE**  
Address **ISA-CNR, VIA ROMA, 64 - 83100, AVELLINO, ITALY**  
Telephone **+39 0825 299391/121**  
Fax **+39 0825 299104**  
E-mail **giuseppe.mazzarella@isa.cnr.it**  
Website **<http://www.cnr.it/people/giuseppe.mazzarella>**  
ORCID/SCOPUS **0000-0002-7294-8277**  
Nationality **ITALIAN**

### WORK EXPERIENCE

Period (from – to) **03/2020 - PRESENT**  
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Senior Researcher**

Period (from – to) **22/12/2000-02/03/2020**  
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Researcher**

Period (from – to) **11/1998-21/12/2020**  
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Fellowship**

Period (from – to) **6/1996-10/11/1998**  
Name of employer **Dept of Pediatrics, University Federico II, Naples, Italy,**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Fellowship**

Period (from – to) **06/1994-63/1996**  
Name of employer **National Research Council of Italy, Institute of Food Sciences (CNR-ISA)**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Fellowship**

Period (from – to) **05/1993-05/1994**  
Name of employer **Giannina Gaslini Institute, Genoa, Italy**  
Type of business or sector **Public Pediatric Hospital Research Institution**  
Occupation or position held **Fellowship**

Period (from – to) **09/1991-04/1993**  
Name of employer **Dept of Pediatrics, University Federico II, Naples, Italy**  
Type of business or sector **Public Research Institution**  
Occupation or position held **Fellowship**

09/1991-04/1993

**EDUCATION**

Period (from – to)	01/09/2013-30/09/2013
Name and type of organization providing education	Mucosal Immunology and Biology Research Center, MGH di Boston (USA)
Title of qualification awarded	Visiting scientist
Period (from – to)	01/09/2000-30/09/2000
Name and type of organization providing education	Center for Celiac Research and Treatment, Univ. del Maryland- Baltimore (USA)
Title of qualification awarded	Visiting scientist
Period (from – to)	10/1992-11/1995
Name and type of organization providing education	School of Medicine and Surgery of the “Federico II” University of Naples “Federico II”.
Title of qualification awarded	Specialization in Biochemistry and Clinical Chemistry
Period (from – to)	11/1984-04/1990
Name and type of organization providing education	University of Naples “Federico II
Title of qualification awarded	Degree with a first-class honours in Biology

NATIVE LANGUAGE

**ITALIAN**

OTHER LANGUAGES

Reading	Well
Writing	Well
Talking	Well

**ENGLISH**

**ORGANIZATIONAL CAPACITY**  
(main)

**Editorial Board Member of:**

- World Journal of Gastroenterology
- Gastroenterology, Hepatology and Endoscopy
- Global Imaging Insights
- International Journal of Molecular Sciences-Section Bioactives and Nutraceuticals
- Edorium Journals
- International Journal of Nutrition and Food Sciences
- Cells-Section Cellular Immunology

**Reviewer for:**

- World Journal of Gastroenterology
- Molecular Nutrition and Food Research
- International Journal of Molecular Sciences
- Journal of Agricultural and Food Chemistry
- Food & Function
- Cells

-Member of the scientific committee of the European Laboratory for the investigation of Food-Induced Diseases (E.L.F.I.D.)

-Member of the scientific committee of the European Biomedical Research Institute of Salerno (E.B.R.I.S)

-Expert of the European Food Safety Authority (EFSA), Scientific Panel: 4.10 human nutrition, dietetic products, allergens and/or novel foods.

**Research Activities/Projects**  
(main)

Title: "In vivo and in vitro analysis of the Glycemic Index, Toxicity and Digestibility of the Hammurabi Monococcus Wheat Variety"  
 Type / Funding: Pasta Camerino-Agroservice SPA  
 Overall amount (€): 30,000 (Time 12 months)  
 Time: from 26/03/2019 To: 26/03/2020  
 Activity: Evaluation of Insulinitis score by immuno morphological methods in nod mice

Title: ""Use of probiotics with high antioxidant activity for the prevention and treatment of inflammatory bowel diseases".  
 Type / Funding: Walter Taccone Fondation  
 Overall amount (€): 24,000 (Time 24 months)  
 Time: from 16/05/2016 To: 16/05/2018  
 Activity: Evaluation of the mucosal immune response after *in-vitro* probiotics challenge of small intestine biopsy samples from patients with IBD, by immuno-morphological method.

Title: " Gluten Sensitivity": double blind randomized placebo controlled multicentric trial (gluten vs placebo) in gluten sensitive subjects". Registrato (clinicaltrials.gov) con ID NCT01485341.  
 Type / Funding: Dr. Schär AG / SPA, € 22000 + Mass General Hospital Boston € 51257,14  
 Overall amount (€): 73.257,14 (Time 12 months)  
 Time: from from 27/12/2012 To: 31/12/2015  
 Activity: identification of possible mucosal markers (gut barrier function, immunological and expression of tight junctions constitutive proteins), useful for the gluten sensitivity diagnosis

Title: "" Title: Isolation and characterization of Escherichia Coli strains in Inflammatory Bowel Diseases (IBD)".  
 Type / Funding: Public institution -Province of Avellino  
 Overall amount (€): 34,000 (Time 12 months); amount of ISA UNIT (€) 8000  
 Time: from 26/05/2012 To: 26/05/2013  
 Activity: Evaluation of the mucosal immune response in IBD patients, by the use of immuno-morphological methods

Title: " Reintroduction of gluten following flour transamidation in adult celiac patients: a randomized, controlled clinical study".  
Type / Funding: Public institution -Province of Avellino  
Overall amount (€): 50,000 (Time 24 months);  
Time: from 26/04/2008 To: 26/04/2010  
Activity: Evaluation of the mucosal immune response in celiac patients, by the use of immunomorphological methods

Title: "" Expert Technician for Technology Transfer in the Agri-food Sector".  
Type / Funding: Ministry of Education, University and Research.  
Overall amount (€): 507,000 (Time 12 months); amount of ISA UNIT (€) 373.000  
Time: from 26/05/2012 To: 26/05/2013  
Activity: Scientific coordinator between the various units and responsible for the work-project: Food Intolerance

### **Publications**

65 articles in International Scientific Journals (ISI WoS)  
17 Chapters in books ( international)  
173 abstracts in international or national congresses

Date, 12/13/2021

## Main publications

1. Vera Rotondi Aufiero, Luigia Di Stasio, Francesco Maurano, Francesca Accardo, Pasquale Ferranti, Gianfranco Mamone, Mauro Rossi and Giuseppe Mazzarella. Beneficial effects of a *T. monococcum* wheat cultivar on diabetes incidence evaluated in non-obese diabetic mice and after *in vitro* simulated gastroduodenal digestion *Actions Int J Food Sci Nutr*. 2021 Oct 4;1-9. doi: 10.1080/09637486.2021.1984403
2. Giuseppe Iacomino Vera Rotondi Aufiero Luigia Di Stasio Stefania Picascia Nunzia Iannaccone Nicola Giardullo Riccardo Troncone Carmen Gianfrani Gianfranco Mamone and Giuseppe Mazzarella Triticum monococcum amylase trypsin inhibitors possess a reduced potential to elicit innate immune response in celiac patients compared to Triticum aestivum *Food Research International* Volume 145, July 2021, 110386
3. Iacomino G, Rotondi Aufiero V, Iannaccone N, Melina R, Giardullo N, De Chiara G, Venezia A, Taccone FS, Iaquinto G, Mazzarella G. IBD: Role of intestinal compartments in the mucosal immune response. *Immunobiology*. 2020 Jan;225(1):151849. doi: 10.1016/j.imbio.2019.09.008. Epub 2019 Sep 19.
4. Aufiero VR, Fasano A and Mazzarella G. Non-Celiac Gluten Sensitivity: How Its Gut Immune Activation and Potential Dietary Management Differ From Celiac Disease. *Mol Nutr Food Res*. 2018 Mar 26:e1700854.
5. Giuseppe Iacomino, Vera Rotondi Aufiero, Pasquale Marena, Antonella Venezia, Riccardo Troncone, Salvatore Auricchio and Giuseppe Mazzarella Laser Capture Microdissection as a Tool to Study the Mucosal Immune Response in Celiac Disease. *Methods Mol Biol*. 2018;1723:139-154. doi: 10.1007/978-1-4939-7558-7\_7.
6. Giuseppe Mazzarella; Angelica Perna; Angela Marano; Angela Lucariello; Vera Rotondi Aufiero; Raffaele Melina; Germano Guerra; Fabio Silvio Taccone; Gaetano Iaquinto; Antonio De Luca. Pathogenic Role of Associated Adherent-Invasive Escherichia Coli in Crohn's disease. *J Cell Physiol*. 2017; 232: 2860-2868 doi: 10.1002/jcp.25717
7. Iacomino G, Marano A, Stillitano I, Aufiero VR, Iaquinto G, Schettino M, Masucci A, Troncone R, Auricchio S, Mazzarella G. Celiac disease: role of intestinal compartments in the mucosal immune response. *Mol Cell Biochem*. 2016 Jan;411(1-2):341-9. doi: 10.1007/s11010-015-2596-7.
8. Mazzarella G. Effector and Suppressor T cells in Celiac Disease. *World J Gastroenterol* 2015 June 28; 21(24): 7349-7356
9. Catassi C, Elli L, Bonaz B, Bouma G, Carroccio A, Castillejo G, Cellier C, Cristofori F, de Magistris L, Dolinsek J, Dieterich W, Francavilla R, Hadjivassiliou M, Holtmeier W, Körner U, Leffler DA, Lundin KE, Mazzarella G, Mulder CJ, Pellegrini N, Rostami K, Sanders D, Skodje GI, Schuppan D, Ullrich R, Volta U, Williams M, Zevallos VF, Zopf Y, Fasano A. Diagnosis of Non-Celiac Gluten Sensitivity (NCGS): The Salerno Experts' Criteria. *Nutrients*. 2015 Jun 18;7(6):4966-77. doi: 10.3390/nu7064966.
10. Mazzarella G, Gianfrani C, Camarca A, Di Stasio L, Rotondi Aufiero V, Giardullo N, Ferranti P, Picariello G, Picascia S, Troncone R, Auricchio S, Mamone G. Extensive *in vitro* gastrointestinal digestion markedly reduces the immune-toxicity of gliadin from ancient *Triticum monococcum* wheat: implication for celiac disease prevention. *Mol Nutr Food Res*. 2015 Sep;59(9):1844-54. doi: 10.1002/mnfr.201500126.
11. Giuseppe Mazzarella, Paolo Bergamo, Francesco Maurano, Diomira Luongo, Vera Rotondi Aufiero, Giuseppina Bozzella, Gianna Palmieri, Riccardo Troncone, Salvatore Auricchio, Chella David, and Mauro Rossi. Gliadin intake alters the small intestinal mucosa in indomethacin-treated HLA-DQ8 transgenic mice. *Am J Physiol Gastrointest Liver Physiol*. 2014 Aug 1;307(3):G302-12 doi: 10.1152/ajpgi.00002.2014
12. Carmen Gianfrani, Maria Maglio, Vera Rotondi Aufiero, Alessandra Camarca, Immacolata Vocca, Gaetano Iaquinto, Nicola Giardullo, Norberto Pogna, Riccardo Troncone, Salvatore Auricchio and Giuseppe Mazzarella. Immunogenicity of Monococcum wheat in Celiac Patients. *Am J Clin Nutr* 2012;96:1338-44.
13. Giuseppe Mazzarella, Virginia M Salvati, Gaetano Iaquinto, Rosita Stefanile, Federica Capobianco, Diomira Luongo, P. Bergamo, F. Maurano, Nicola Giardullo, Basilio Malamisura and Mauro Rossi. Reintroduction of gluten following flour

transamidation in adult celiac patients: a randomized, controlled clinical study. *Clin Dev Immunol.* 2012;2012:329150. Epub 2012 Jul 31.

14. Giuseppe Mazzarella, Mariantonia Maglio, Carmela Gianfrani, Maria Vittoria Barone, Norberto Pogna, Laura Gazza, Rosita Stefanile, Alessandra Camarca, Barbara Colicchio, Merlyn Nanayakkara, Erasmo Miele, Gaetano Iaquinto, Nicola Giardullo, Francesco Maurano, Riccardo Troncone, Salvatore Auricchio. Immunogenicity of two oats varieties, in relation to their safety for celiac patients. *Scand J Gastroenterol.* 2011 Oct;46(10):1194-205
15. G.Mazzarella, R. Stefanile, A. Camarca, P. Giliberti, E. Cosentini, C. Marano, G. Iaquinto, N. Giardullo, S. Auricchio, A. Sette, R. Troncone, C. Gianfrani. Gliadin activates HLA class I-restricted CD8+ T-cells in celiac intestinal mucosa *and* induces the enterocyte apoptosis. *Gastroenterology* 2008; 134:1017-1027.
16. G. Mazzarella , T.T. MacDonald, VM Salvati, P. Mulligan, L.Pasquale, R. Stefanile, P.Lionetti, R. Troncone, G. Monteleone. Activation of signal transducer and activator of transcription 1 in celiac disease. *Am J Path* 2003;162:1845-1855.
17. Mazzarella G, Maglio M, Paparo F, Nardone G, Stefanile R, Greco L, van de Wal Y, Kooy Y, Koning F, Auricchio S, Troncone R. An immunodominant DQ8 restricted gliadin peptide activates small intestinal immune response in in vitro cultured mucosa from HLA-DQ8 positive but not HLA-DQ8 negative coeliac patients. *Gut.* 2003 Jan;52(1):57-62.
18. A Miralto, G. Barone, G. Romano, S. A. Poulet, A. Ianora, G. L. Russo, I. Buttino, G. Mazzarella, M. Laabir, M. Cabrini & M. G. Giacobbe: " The Insidious Effect of Diatoms on Copepod Reproduction" *Nature* 1999; 402:173-176.