



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Marzia De Giacomo**

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E-mail(s) marzia.degiacomo@iss.it

Nationality Italian

Date of birth 11 February 1967

Gender Female

Desired employment / Occupational field

Researcher in Food and Feed Safety

Work experience

Dates from November 2002

Occupation or position held Researcher, permanent position

Main activities and responsibilities

Substitute responsible of the Genetic Modified Organisms (GMO) laboratory section of the GMOs and mycotoxin Unit

Responsible of molecular biology analytical methods validation of the Department of Food Safety, Nutrition and Veterinary Public Health.

Italian delegate Working Party for the Safety of Novel Foods and Feeds (WG-SNFF), OECD.

Member of EFSA Network on Risk Assessment of GMOs

Italian delegate of the European Network of GMO Laboratories (ENGL) and member of different ENGL Working Group (digital PCR, DNA extraction, Minimum Performance Requirements for Analytical Methods)

Expert in technical committees of the Italian Ministry of Health for GMOs.

Expert in technical committees of the Italian Ministry of Ecological Transition for GMOs and New Genomic Techniques (NGT).

Metrology supervisor of the Unit.

Member of the scientific board for national training courses on the issue of GMOs in food and feed including sampling.

Member of Technical Commission ISO/TC 34/SC 16/WG 14 Genetically engineered content detection and quantification and Technical Commission CEN/TC 275 WG 11 Genetically modified foodstuffs and species analysis.

Espert of Ad Hoc Technical Expert Group on Synthetic Biology, (CBD) Notification 2017-044

Member of the Network of Laboratories for the Detection and Identification of Living Modified Organisms CBD Notification 2017-141.

Research contribution with technical, analytical activities including reporting to national and international research projects on food and feed safety on the following topics:

- Standardization and validation of analytical methods for the detection of GMO
- Comparison of DNA extraction methods from food
- Development of sampling approaches for GMO analysis
- Strategies to prevent criminal, and terrorist attack against food supply chain

to the following research programs:

- MARLON Project: Monitoring of Animals for Feed-related Risks in the Long Term (FP7 Post-market monitoring of GMOs based on epidemiological studies)
- SECUFOOD Project :Security of European Food supply chain. (European Programme on Critical Infrastructure Protection, addressing the program theme "Prevention, Preparedness and

Consequence Management of Terrorism and other Security-related Risks” , 2009- 2010)
 • CO-EXTRA Project: GM and non-GM supply chains: their CO-EXistence and TRAcability (European project of the 6th framework programme: 2005-2009)
 • KeLDA project (Kernel Lot Distribution Assessment) concerning the distribution of GM material in kernel lots imported within EU Member States, the evaluation of sampling strategies for the detection of GM materials in lots of bulk raw materials, and providing recommendations for implementing sampling strategies (European project of the 5th framework programme: 2002-2004).
 • ENTRANSFOOD- Evaluation of GMO exposure in human diet: post marketing study concerning the intake of GMO in the Italian development of an observatory model (European project of the 5th framework programme: 2000-2002).

Name and address of employer Istituto Superiore di Sanità (Italian Institute for Health-ISS)
 Viale Regina Elena, 299, 00161 Roma (Italy)

Type of business or sector Governmental Institute for Health, technical body of the Ministry of Health

Dates February 1998 -November 2002

Occupation or position held Researcher, temporary position

Main activities and responsibilities Studies on Trichinella, Giardia and Cryptosporidium infections.

Name and address of employer Istituto Superiore di Sanità (Italian National Institute for Health), Laboratory of Parassitology
 Viale Regina Elena, 299, 00161 Roma (Italy)

Type of business or sector Governmental Institute for Health, Technical body of the Ministry of Health

Dates 1997-1998

Occupation or position held Research assistant

Main activities and responsibilities Studies on malaria vectors

Name and address of employer Institute of Parasitology, University of Rome “La Sapienza” Piazzale Aldo Moro 5, 00185 Roma (Italy)

Type of business or sector Faculty of Medicine and Hygiene (University)

Dates 1997

Occupation or position held Research assistant

Main activities and responsibilities Cell culture experiments to address the role of hypoxia on the cell expression of some integrins involved in the angiogenic process.

Name and address of employer Gene Therapy Unit of the Laboratory of Cardiovascular Science, National Institute on Aging,
 Baltimore (MD) USA

Type of business or sector National Institute of Health (NIH)

Education and training

Dates Academic Year: 1994/1995

Title of qualification awarded Degree in Chemistry (5 years course)

Principal subjects / occupational skills covered Synthesis of organic compounds produced by a variety of plants.

Name and type of organisation providing education and training University of Rome “ La Sapienza”
 Piazzale Aldo Moro 5, 00185 Roma (Italy)

Dates 2003 - 2005

Title of qualification awarded Post-graduate specialization course in Biotechnology

Principal subjects / occupational skills covered Fundamentals of chemistry, industrial chemistry, pharmaceutical and chemical technology
 Molecular biology, and applications of genetic engineering, recombinant DNA technology, genetic modification/manipulation (GM), and gene splicing
 Thesis on the “traceability of GM soya been along the food chain process”

Name and type of organisation providing education and training University of Rome “Sapienza” (University)
 Piazzale Aldo Moro, 5, 00185 Roma (Italy)

Dates	From 2006 to date																														
Title of qualification awarded	teaching assignments: lecturer in training courses, TAIEX courses, degree courses; speaker at various conferences and workshops; supervised and tutored trainees in Master's and Specialist Degree courses; scientific dissemination, organising courses and conferences.																														
Title of qualification awarded	Participation as a trainee in numerous European and international training courses (BTSF, EURL GMO, IRMM, EFSA, OECD).																														
Principal subjects / occupational skills covered	Use of Reference Materials and the Estimation of Measurement Uncertainty, Risk Assessment in Genetically Modified Organisms and other Biotechnologies, Nutrition Risk Assessment, Animal Cell Culture for Food Production organizzato, Hazards Associated with Animal Feed.																														
Other language(s)																															
Self-assessment <i>European level</i> (*) English	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>Independent User</td> <td>B2</td> <td>Independent User</td> <td>B1</td> <td>Independent User</td> <td>B1</td> <td>Independent User</td> <td>B1</td> <td>Independent User</td> </tr> </tbody> </table> <p>(*) Common European Framework of Reference (CEF) level</p>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Independent User	B2	Independent User	B1	Independent User	B1	Independent User	B1	Independent User
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Social skills and competences	Good skills on establishing social relations, ability to work individually and as a team member, tolerant and flexible to different situations.																														
Organisational skills and competences	Critical thinking, decision-making and problem solving skills. Reliable, flexible. Good abilities on team building coordination and training. Teaching skills.																														
Computer skills and competences	Competent in most of Microsoft Office programmes (Word, Excel, Power Point)																														
Most relevant publication	<p># Cisgenesis: an EU perspective. Simona Baima, Marzia De Giacomo, Valeria Giovannelli, Vincenza Ilardi, Biancamaria Pietrangeli, Valentina Rastelli. Springer Nature book: Cisgenic Crops: Safety, Legal & Social Issues. (PRINTING)</p> <p># Italy—GMOs and Synthetic Biology Rules/Regulations and Biodiversity: The Legal Perspective of Italy. Rastelli, G. Bacaro, S. Baima, M. De Giacomo, V. Giovannelli, V. Ilardi, M. Lener, S. Mocali, A. Paternò, B. Pietrangeli, G. Staiano, E. Sturchio. Springer Nature book - Chaurasia A, Hawksworth D.L., Pessoa de Miranda M. (eds) GMOs. Topics in Biodiversity and Conservation, vol 19. Springer, Cham. (2020). http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-3-030-53183-6_40V.</p> <p>#Exposure of livestock to GM feeds: Detectability and measurement” Anna Nadal , Marzia De Giacomo , Ralf Einspanier , Gijs Kleter , Esther Kok , Sarah McFarland , Roberta Onori , Alain Paris e Monica Toldrà , Jeroen van Dijk , Jean-Michel Wal , Maria Pla. (2018) Food and Chemical Toxicology vol. 117, pp. 13-35. doi: 10.1016/j.fct.2017.08.032.</p> <p># Case studies on genetically modified organisms (GMOs): Potential risk scenarios and associated health indicators” Barbara De Santis , Norbert Stockhofe , Jean-Michel Wal , Eefke Weesendorp , Jean-Paul Lalles, Jeroen van Dijk, Esther Kok, Marzia De Giacomo, Ralf Einspanier, Roberta Onori, Carlo Brera, Paul Bikker, Jan van der Meulen and Kleter Gijs. (2018) Food and Chemical Toxicology vol. 117, pp. 36-65. doi: 10.1016/j.fct.2017.08.033DOI: 10.1016/j.fct.2017.08.033</p> <p>#Evaluation of the carryover of DNA from Genetically Modified feed to milk in husbandry systems". M. De Giacomo, C. Di Domenicantonio, B. De Santis, F. Debegnach,R. Onori and C. Brera, Journal of Animal and Feed Sciences issue i.e. Vol 25 No.2, 2016.</p> <p>#Traceability of genetically modified Roundup Ready Soybean: a case study on sampling and analytical uncertainty along processing chain Roberta Onori, Raffaele Lopardo, Marzia De Giacomo, Barbara De Santis, Elisabetta Prantera, Eleonora Palmaccio, and Carlo Brera. Journal: Food Control; DOI: 10.1016/j.foodcont.2013.05.012.</p> <p>#Assessment of mycotoxins in human milk of celiac mothers: a preliminary outline C. Brera, F. Valitutti, A. Nigri, C.M. Trovato, D. Iorfida, F. Debegnach, E. Gregori, M. De Giacomo, M. Barbato, S. Cucchiara, C. Catassi, B. De Santis. Abstracts / Digestive and Liver Disease, September 30, 2013 Volume 45, Supplement 4, Page e305</p> <p>#Study of the influence of the milling process on the distribution of deoxynivalenol content from the</p>																														

caryopsis to cooked pasta”

C. Brera, , A. Peduto, F. Debegnach, E. Pannunzi, E. Prantera, E. Gregori, **M. De Giacomo**, B. De Santis, Food Control Volume 32, Issue 1, July 2013, Pages 309–312.

#Genetically Modified and non-Genetically Modified Food Supply Chains: Co-Existence and Traceability. Part 4, Chapter 15 “GMO Sampling Strategies in Food and Feed Chains”; Chapter 17 “The Modular Approach in GMO Quality Control and Enforcement Support Systems”; Chapter 21 “Method Validation and Reference Materials”. Publisher: Wiley-Blackwell, Author: Yves Bertheau, John Davison, 2012.

#Traceability of genetically modified Roundup Ready Soybean: a case study on sampling and analytical uncertainty along processing chain. R. Onori, R. Lopardo, **M. De Giacomo**, E. Prantera, B. De Santis, E. Palmaccio, and Carlo Brera. Journal: Food Control; DOI10.1016/j.foodcont.2013.05.012.

#The relevance of sampling for the control of genetically modified organisms in the agri-food chain, Chapter 13 in “Food chain integrity: A holistic approach to food traceability, safety, quality and authenticity. C Brera, B De Santis, E Prantera, **M De Giacomo** and R Onori. Woodhead Publishing Series in Food Science, Technology and Nutrition No. 212, Editor J. Hoorfar, K. Jordan, F. Butler and R. Prugger, 2011.

A Risk Assessment of the Food supply Chain. Vulnerability against terroristic or criminal contamination. M. J. Alvarez, A. Alvarez, **M. De Giacomo**, M. De Maggio, R. Onori, A. Oses, M. Trombetta, J.M. Sarriegi and R. Setola. International Journal of Food Safety, Nutrition and Public Health , Special Issue “on Food Defence Vol. 4 No. 1, 2011.

Testing the interaction between analytical modules: an example with RoundUp Ready Soybean line GTS 40-3-2. G. Bellocchi, **M. De Giacomo**, N. Foti, M. Mazzara, E. Palmaccio, C. Savini, C. Di Domenicantonio, R. Onori and G. Van den Eede. BMC Biotechnology, 10:55, 2010.

#Seeds: Transgenes and Genetic Modification (GM)” R. Onori and **M. De Giacomo** , Encyclopedia of Biotechnology in Agriculture and Food, 1, 587-590, DOI: 10.1081/E-EBAF 2010.

Date Rome, 20.02.2022

