

**Dr. Francesco Grieco****Date and place of birth:** 20-03-1961 Bari**Affiliation and official address:**

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**Education:**

- 1984-1986, Graduation thesis at the Genetics Institute (University of Bari). Final grade 104/110.
- 1986-1987, Training for inclusion in the Biologist Register at the Genetics Institute and the Biological Department of the University of Bari. Final grade 114/110.
- 1988-1990, Research activity at the "CNR - Centre for the Study of Viruses and Virus Diseases of Mediterranean Crops" (CeViCom).
- 1990-1992, Fellowship from Italian National Research Council at the CeViCom. For 12 months during this period, he worked under the guidance of Prof. R. Hull at the John Innes Institute at Norwich(UK) 1992 -1994, Research activity at the CeViCom.
- 2001, Stage at the Imperial College of the University of London (UK) to study *in vivo* localization of viral proteins by confocal laser scanning microscopy.
- 2004, Stage at the INRA Laboratory of Biology et Genetic of Plant-Parasite Interactions (BGPI) in Montpellier (France), to study the expression in baculovirus system of a *Saccharomyces cerevisiae* membrane protein.

**Career/Employment/Appointments:**

- 1994-1996, Recipient of a two year Researcher position at the CeViCom.
- 1996-2002, Permanent Researcher at the CeViCom.
- 2002 to 2006, Permanent Researcher at the Institute of Science of Food Production (ISPA) – Lecce
- 2006 to date Senior Researcher at the ISPA – Lecce
- He is referee for the following international journals: Archives of Virology, BioTechniques, International Microbiology, Molecular Biology Reports, Phytopatologia Mediterranea, Bioresource Technology, Journal of Basic Microbiology, The Scientific World Journal, International Journal of Food Microbiology, Folia Microbiologica, Electrophoresis, Applied Microbiology and Biotechnology.

**Field of experience/Research activity:**

Molecular biology, plant virology, oenological microbiology, heterologous gene expression in bacteria and yeast. His scientific activity is focused on three main research lines:

- Investigate the mechanisms of glycerol import utilised by *Saccharomyces cerevisiae*, to help the understanding of yeast stress-resistance mechanisms during alcoholic fermentation.
- Study of yeast and bacteria population dynamics during grape must and olive fermentations, in order to select autochthonous microbial strains for industrial productions.
- Utilize yeast expression system to produce heterologous protein of agro-industrial interest, such as fungal laccases and tyrosinases.

### **Main projects (1992 →)**

- Scientist in the Project: "Biotechnologies in the Vegetables Production", included National Plan "Advanced Research for Innovations in the Agricultural System", funded by the CNR
- Scientist in the National Research Project "Development of advanced technologies applied to plants" and "Plant Biotechnology", funded by the Italian Ministry of Agriculture, Food and Forestry.
- Scientist in the National Research Project "Genetic resistance of agricultural plants to biotic and abiotic stress", funded by the Italian Ministry of Agriculture, Food and Forestry.
- Scientist in the Project "Production of tomato plants with useful levels of non-conventional resistance to the cucumber mosaic virus (CMV)", included in the National Plan for Plant Biotechnology, funded by the Italian Ministry of Agriculture, Food and Forestry.
- Scientist in the Project "Gene organization and expression of pelargonium zonate spot virus (PZSV)", funded by the National Committee for Biotechnology and Molecular Biology (CNR).
- Scientific superintendent of the Oenological Area in the Project "Transfer of biotechnological innovations to the Apulian agri-food system (AgriBit)", funded by the Italian Ministry of the Productive Activity.
- Project co-ordinator of the Explorative Project "Autochthonous yeasts as fermentation starter for the production of quality wines in Apulia (LIEVAUTO) funded by the Apulia Regional Council (P.O.R. Puglia 2000-2006).
- Scientist in the Project "Development of innovative methodologies readily transferable to improve the quality and safety of typical wines in Apulia (ENOCOOP)" funded by the Apulia Regional Council (Misura 4.18 -P.O.R. Puglia 2000-2006).
- Scientist in the project "Molecular Biodiversity Laboratory" (MBLab) funded by the Italian Ministry of Education, University and Research (DM19410).
- Scientific superintendent of the ISPA Research Unit in the Strategic Project "Innovative biotechnologies for improving the quality and safety of typical wines in Apulia (INNOWINE)", funded by the Apulia Regional Council (P.O.R. Puglia 2000-2006).
- Scientist in the Project "Valorizzazione della tipicità degli oli extravergine di oliva salentini - VAL.TIP.OLP", funded by the Apulia Regional Council (PIF - Mis. 124).
- Scientific superintendent of the ISPA Research in the Project "Sistemi innovativi per il miglioramento della qualità dei vini - "INNOVAVINO", funded by the Apulia Regional Council (PIF - Mis. 124).
- Scientist in the Project "Utilization of biophenols from Olea europea products – Olives, virgin oil, and olive mill wastewaters – BIOOLEA". (Interreg Italy-Greece).
- Scientist in the Project "NET-ECO - NETwork, delle competenze per il monitoraggio dei siti contaminati ed il trasferimento di tecnologie ECOSostenibili", funded by the Italian Ministry of Economical Development (MISE – RIDITT Programme).
- Scientist in the Project "Strumenti Innovativi per il miglioramento della sicurezza alimentare (SIMISA)", funded by Italian Ministry of Education, University and Research (PON cod. PON02\_00657\_00186\_3417512/1)
- Scientific superintendent of the ISPA Research in the Project "Autochthonous2Autochthonous: risorse microbiologiche per vini in purezza da vitigni autoctoni (e per produzioni biologiche), funded by the Apulia Regional Council (FESR 2007-2013 Linea 1.2 – Azione 1.2.4)

### **Scientific awards**

On 13 June 2006, Dr. Grieco received the National Prize "VINARIUS" for his studies and researches related to the autochthonous grape cultivar "Negroamaro".

### **Scientific production**

Participated as first author, corresponding author or as co-author in writing **176** scientific papers published in refereed international and national journals including poster communications to several International Conferences and patents.