

Panayiota Markou

PERSONAL INFORMATION

Date of Birth: 3rd of October 1989

Place of Birth: Larnaca, Cyprus

Address: Pleiadon 13, Strovolos, Nicosia, Cyprus

Work address: Department of Biochemistry & Biotechnology, 26 Ploutonos & Aiolou St, 41221, Larissa, Greece/ Department of Agrobiotechnology, Agricultural Research Institute, Aglantzia, Cyprus

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EDUCATION

09/2014 – present: PhD Candidate at the Department of Biochemistry and Biotechnology, Plant and Environmental Biotechnology Laboratory, University of Thessaly, Larissa, Greece.

PhD thesis: Biosynthesis, metabolites diversity and biological action of triterpenes in legume vegetables.

Supervisor: Associate Prof. Kalliope Papadopoulou.

01/2013 – 11/2013: Internship, Department of Biological Sciences – Molecular Genetics Laboratory, University of Cyprus, Nicosia, Cyprus
Project: Study of human infections by pathogens (*Pseudomonas aeruginosa*) and their role in intestinal inflammation and cancer. Identification of host genes and signaling pathways that mediate inflammation and predispose to cancer.

Supervisor: Assistant Prof. Yiorgos Apidianakis

09/2011 – 01/2013: Master of Science in Molecular Biology, Department of Biological Sciences Molecular Genetics Laboratory, University of Cyprus, Nicosia, Cyprus

Master thesis project: Study of the genetics and pathogenesis of inflammatory bowel disease, which leads to cancer, by Genome-Wide Association Studies (Molecular Genetics Laboratory).

Supervisor: Assistant Prof. Yiorgos Apidianakis

09/2007 – 06/2011: Bachelor of Science in Plant Sciences and Biotechnology, Department of Agricultural Sciences, Biotechnology and Food Science, Cyprus University of Technology, Limassol, Cyprus

Bachelor thesis project: Epidemiology and characterization of *Pepino Mosaic Virus* in Cyprus (Molecular Plant Pathology Laboratory).

Supervisor: Professor Nicolas Ioannides

WORK EXPERIENCE

01/2015 – present: Course responsible and teaching “Principles of Crop Production” and “Open Field and Protected Grown Vegetables” (Diploma, School of Agriculture, UCLan Cyprus).

10/2014 – present: Course responsible and teaching “Horticulture”, and “Aromatic and Medicinal Plants” (Higher Diploma, School of Gardening and Garden Design, KES College).

08/2014 – 10/2014: Plant inspection – quality levels investigation on vegetables and fruits (Alion Vegetable & Fruit Co LTD, Nicosia, Cyprus).

01/2013 – 11/2013: Internship project: Microbiology – Study of the role of bacteria (*Pseudomonas aeruginosa*) in intestinal inflammation and cancer (University of Cyprus, Nicosia, Cyprus – Molecular Genetics Laboratory).

10/2009 – 02/2011: Workshop: Detection of plant pathogens using molecular techniques - biological and molecular characterization of plant pathogenic viruses and viroids (Molecular Plant Pathology Laboratory, Agricultural Research Institute, Nicosia, Cyprus).

PERSONAL SKILLS AND COMPETENCES

Technical skills: *Laboratory techniques knowledge:*

Molecular techniques: RNA/DNA Isolation, Polymerase Chain Reaction (PCR, RT-PCR, Real-Time RT-PCR), Agarose Gel Electrophoresis, DNA cleanup from PCR, Ligation Reaction, Transformation of Bacterial Cells, Restriction Enzyme Digestion, Isolation of Plasmid DNA from Bacteria, Denaturing Gradient Gel Electrophoresis, RACE Technique

Biochemical Techniques: Gas Chromatography - Mass Spectrometry Analysis, Liquid Chromatography - Mass Spectrometry Analysis

Classical Microbiology: Culture Media Preparation, Media Inoculation, Microscopic Observations, Staining techniques for microscopic observations.

Serological techniques: Enzyme - Linked Immunosorbent Assay (ELISA)

Foreign Languages: English: Proficient user. Proficiency certificate (C2).

PUBLICATIONS:

Markou, P. and Apidianakis, Y. Pathogenesis of *Pseudomonas aeruginosa* infection in patients with cancer. Front. Cell Infect. Microbiol. 2014 Jan 7;3:115.

Papayiannis, L.C., Kokkinos, C., **Markou, P.M.**, and Alfaro-Fernandez, A. 2010. Epidemiology and characterization of Pepino mosaic virus in Cyprus. Proceedings of the 25th Conference of the Hellenic Society for Horticultural Science, p.292. November 1-4, 2011. Limassol, Cyprus.