

Curriculum vitae Fotios Bekris



Personal Data

Name : Bekris Fotios
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Education

2001-2006

B.Sc in Dept. of Plant Production, in Technological Educational Institute of Kalamata, Greece

2007-2009

M.Sc in Dept. of Biochemistry and Biotechnology, University of Larissa, Greece

2010-2018

Ph.D in Dept. of Biology, University of Crete, Greece

Research-Lab Experience

2005-2006

National Agricultural Research Foundation, Institute/Laboratory of Environmental Biotechnology, Kalamata, Greece.

Research activity for B.Sc Diploma Thesis

Title: Effect of an non-pathogenic *Fusarium solani* in the expression of pathogenesis related proteins (*PR*) in tomato.

Supervisor: Dr. Nektarios Kavroulakis

1/4/2007-30/6/2007

Agricultural University of Athens, Greece.

Participation on the research program «Impact of olive mill waste (OMW) on biological soil systems».

Supervisor: Assistant Prof. Dr. Konstantinos Ehaliotis

2007-2009

University of Larissa, Plant and Environmental Biotechnology Laboratory, Dept. of Biochemistry and Biotechnology, Greece.

Research activity for M.Sc Diploma Thesis

Title: Genes expression in tomato plants during the interaction with a non-pathogenic strain of *Fusarium solani*.

Supervisor: Assistant Prof. of Plant Biotechnology Dr. Kalliope Papadopoulou

21/9/08-21/12/08

University of Utrecht, Plant-Microbe Interactions Laboratory, Biology Dept., Nederland.

Research activity as Erasmus student

Title: Re-training in Arabidopsis/pseudomonas interactions.

Supervisor : Prof. of Plant-Microbe Interactions Dr. ir. Corné Pieterse

01/07/2010-30/10/2016

University of Crete, Laboratory of Plant Ecology & Terrestrial Ecosystems Management Dept. of Biology, Greece.

Research activity for Ph.D Diploma Thesis

Title: Soil Microbial diversity and vegetation in Mediterranean terrestrial Ecosystems

Supervisor: Associate Prof. of Ecology Dr. Stergios Pirintsos

15/03/2014-15/09/2014

University of California, Lawrence Berkeley National Laboratory (LBNL), Earth Science Division, Berkeley-California, USA.

Research activity as Short-term affiliate for Ph.D Diploma Thesis

Title: G3 PhyloChip microarrays

Supervisor: Dr. Gary Andersen Adjunct Professor in the Environmental Sciences, Policy and Management (ESPM)

Professional-Teaching Experience

1/9/2005-1/7/2006 Placement in Environmental Biotechnology Laboratory, National Agricultural Research Foundation (N.A.G.R.E.F), Kalamata, Greece

1/4/2007-30/6/2007 Participation fixed-term research program re-GSRT "Biological treatment and use of liquid waste oil manufacture - Mechanisms and integrated applications" (Action 4.5.1) at the Agricultural University of Athens on the subject of the project "effect of waste oil production in biological soil systems. "

10/10/2011-10/02/2012 Laboratory Assistant at courses of Ecology Laboratory, Fall Semester, University of Crete, Department of Biology

10/9/2012-10/01/2013 Laboratory Associate at courses of Methods in Ecology, Fall Semester, University of Crete, Department of Biology

Relevant scientific skills acquired:

- General knowledge of basic laboratory practices and techniques
- Responsible for culture collections (bacterial and fungal isolates)
- Molecular biology-microbiology methodologies, such as:
DNA (cloning, extraction, electrophoresis etc.), PCR approaches, RT-PCR, Real Time PCR, DGGE, T-RFLP, Microarrays (PhyloChip G3), non-radioactive nucleic acid hybridizations, TLC
- Use of Fluorescence-Confocal microscopy
- Good handling of software programs for data and multivariate analysis (R, Primer6, PC-ORD, SPSS)
- Basic knowledge on bioinformatics software programs ARB, BLAST, IMG, MEGA5
- Experience in handle and sample manipulations for molecular techniques (soil, plant)

Member of Scientific Societies

- Hellenic Botanical Society
- Hellenic Society Mikrobiokosmos
- International Society for Microbial Ecology (ISME)

Other Skills

English (First Certificate In English, Cambridge)
Good knowledge of computer (word, power-point, excel, internet)
Driving license car-motorbike
Fulfilled military obligations

Scholarships

01/02/2011-01/02/2014

Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funded Project: Heraclitus II. Investing in the knowledge society through the European Social Fund. "

15/03/2014-15/09/2014

Short-term IKY "Education and Lifelong Learning of the National Strategic Reference Framework (NSRF)" Investing in the knowledge society through the European Social Fund. "

Publications in international referred Journals

1.) Dimitrios G. Karpouzas, Constantina Rousidou, Kalliope K. Papadopoulou, **Fotios Bekris**, Georgios I. Zervakis, Brajesh K. Singh & Constantinos Ehaliotis (2009). Effect of continuous olive mill wastewater applications, in the presence and absence of nitrogen fertilization, on the structure of rhizosphere–soil fungal communities. *FEMS Microbiology Ecology*. 70:(3)56 – 69.
[I.F: 3.335]

2.) Mixalis Omirou, Constantina Rousidou, **Fotios Bekris**, Kalliope K. Papadopoulou, Constantinos Ehaliotis, U. Menkissoglu-Spiroudi, Dimitrios G. Karpouzas (2011). The impact of biofumigation and chemical fumigation methods on the structure and function of the soil microbial community. *Microbial Ecology*. 61:201-213.
[I.F: 3.251]

3.) Dimitrios G. Karpouzas, Anastasios Karatasas, Evangelia Spiridaki, Constantina Rousidou, **Fotios Bekris**, Mixalis Omirou, Constantinos Ehaliotis, Kalliope K. Papadopoulou (2011). Impact of a beneficial and of a pathogenic *Fusarium* strain on the fingerprinting-based structure of microbial communities in tomato (*Lycopersicon esculentum* Mill.) rhizosphere. *European Journal of Soil Biology*. 47:400-408.
[I.F: 1.741]

4.) **Fotios Bekris**, Luciana Georgescu; Michael Bariotakis; Kiriakos Kotzabasis; Nikolaos Panopoulos; Stergios Pirintsos (2018). Do genetic diversity patterns of soil ammonia-oxidizing microorganisms (AOM) match the habitat types of the NATURA2000 scheme? *Journal of Soils and Sediments*.
<https://doi.org/10.1007/s11368-018-2039-7>
[I.F: 2.627]

Publications in scientific meetings

1.) N. Kavroulakis., M. Besi, **F. Bekris**, K,P. Papadopoulou (2007). Monitoring of the suppressive effect of a non-pathogenic *Fusarium solani* strain with the use of the green fluorescence protein (*GFP*) and b-glucoronidase (*GUS*). 23° Congress of Hellenic Society of Horticultural Science. Book of Abstracts, 23-26 October 2007, Chania-Greece, p. 223.
(poster)

2.) C. Delis., N. Kavroulakis, S. Georgiou, **F. Bekris**, A. Krokida, B. Field, A,E. Osbourn, K,K. Papadopoulou (2008). Functional analysis of triterpenoid biosynthesis in Legumes. PSE Young Scientists' Meeting, 26-29 March, Bad Herrenalb-Germany.
(poster)

3.) N. Kavroulakis, **F. Bekris**, M. Besi, C. Delis, I. Ypsilantis, I.E. Papadakis, C. Ehaliotis & K.K Papadopoulou (2008). A novel tomato-*Fusarium solani* system for the molecular dissection of beneficial plant-fungal interactions. 1° Conference of Scientific Society Microbiokosmos. Book of Abstracts, 12-14 December, Athens-Greece, p. 80.
(poster)

4.) A. Karatasas, **F. Bekris**, C. Rousidou, D.G Karpouzas, C. Ehaliotis, K. Papadopoulou (2008). Effects of root colonization by pathogenic and endophytic soil fungi on the soil fungal community in the rhizosphere of tomato plants. 1° Conference of Scientific Society Microbiokosmos. Book of Abstracts, 12-14 December, Athens-Greece, p. 92.

(poster)

5.) C. Rousidou, **F. Bekris**, D.G Karpouzas, K.K Papadopoulou, G. Zervakis and C. Ehaliotis (2008). Effect of continuous olive mill wastewater applications, in the presence and absence of N fertilization, on the structure of the soil fungal community. 1° Conference of Scientific Society Microbiokosmos. Book of Abstracts, 12-14 December, Athens-Greece, p. 208.

(poster)

6.) M. Omirou, C. Rousidou, **F. Bekris**, I. Spyrou, D.G Karpouzas, K. Papadopoulou, U. Menkissoglu—Spiroudi and C. Ehaliotis (2008). Effects of conventional and “BIO-“ fumigation techniques on the soil microbial community. 1° Conference of Scientific Society Microbiokosmos. Book of Abstracts, 12-14 December, Athens-Greece, p. 168.

(poster)

7.) Omirou M, Ehaliotis C., Rousidou C., **Bekris F.**, Menkissoglu-Spiroudi U., Spyrou M-I., Papadopoulou K., Karpouzas D.G., (2009) Effects of conventional and organic fumigation techniques on soil microbial community. 2nd Glucosinolate Conference, Book of abstract, 24-27 May 2009, Elsinore-Denmark, p. 27.

(poster)

8.) **Bekris F.**, Pirintsos S. (2012). Archaea and ammonia oxidation in Mediterranean terrestrial ecosystems. Meeting Heraclitus II. 4-5 December 2012, Heraklion-Crete.

(poster)

9.) **Bekris F.**, Pirintsos S. (2012). Diversity of ammonia-oxidizing microorganisms (AOM) in Mediterranean terrestrial ecosystems. 5° Conference of the Hellenic Scientific Society Microbiokosmos «Mikrobiokosmos in food production, from biodiversity to applications». Agricultural University of Athens, Book of abstract 13-15 December 2012 Athens-Greece, p.22.

(oral presentation)

10.) **Bekris F.**, Pirintsos S. (2013). Ammonia-oxidizing microorganisms in Mediterranean terrestrial ecosystems of Crete: Plants-Microbes Interactions. High Throughput Omics & Data Integration Workshop. COST Workshops. Barcelona-Spain, 13th-15 th February 2013.

(poster)

11.) **Bekris F.**, Panopoulos N., Pirintsos S. (2013). Genetic diversity of Ammonia-Oxidizing Microorganisms (AOM) and vegetation in terrestrial ecosystems of Crete. 13th. Congress of the Hellenic Botanical Society, Proceedings of the Hellenic Botanical Society, Book of abstract, Thessaloniki-Greece, 3-6 October p. 107.

(oral presentation)

12.) **Bekris F.**, Tom L., Piceno Y., Panopoulos N., Andersen G., Pirintzos S. (2014). Assessment of soil bacterial diversity patterns in Mediterranean Ecosystems of Crete (Eastern Mediterranean Basin). Complex Soil Systems Conference "A Path to Improved Understanding of Complex Soil Systems" Berkeley Lab and DOE, Berkeley, California-United States, Berkeley 3-5 September.
(poster)

13.) **Bekris F.**, Tom L., Piceno Y., Panopoulos N., Andersen G., Pirintzos S., (2015). Soil bacteria diversity and vegetation in Mediterranean ecosystems of Crete. 6^o Conference of the Hellenic Scientific Society Microbiokosmos «Mikrobiokosmos: New Horizons in the Micro World» National Hellenic Research Foundation, Athens-Greece, Book of abstract 3-5 April 2015 p. 11
(oral presentation)

14.) **Bekris F.**, Pirintzos S. (2015). Soil microbial diversity and vegetation in Mediterranean ecosystems. Meeting Heraclitus II Closing Remarks. 20 October 2015, Heraklion-Crete.
(poster)

Attendance of Workshops-Courses-Symposiums

23^o Scientific Conference of the Greek Society of Horticultural Science 'Agricultural Production in the New European Environment'. Chania-Crete 23-26 October 2007.

29^o Scientific Conference of the Greek Society of Biological Sciences. Kavala-Greece 17-19 May 2007.

Meeting for the research project (F.P 66) in manipulation of the wastes from the oil industry, Athens-Greece 7 April 2008.

Institute of Environmental Biology, Symposium Plants and Climate Change, Went Building, Groene Zaal, Utrecht University, Utrecht-Netherlands, 30th October 2008.

Meeting of Greek Entomological Society "New Insect Pests in our Country: Tuta absoluta (backmoth tomato) & Rhynchophorus ferrugineus (rynchoforos palm): experience, Newer data & Lessons Learnt", Agricultural University of Athens, Athens-Greece, February 18, 2011.

2nd European Meeting Workshop «Molecular interactions of Plant-abiotic factors» FP7-REGPOT-2008-1: BPI Plant-Heal, Agricultural University of Athens, Athens-Greece 6 May 2011.

Workshop on "Agriculture and Biodiversity" in the European program INTERREG IVC (REVERSE). Mediterranean Agronomic Institute of Chania (M.A.I.CH), Chania-Crete 24 June 2011.

Genomics in Biodiversity Workshop, European Framework Project MARBIGEN. Institute of Marine Biology and Genetics-Hellenic Centre for Marine Research. Heraklion-Crete 16th September 2011.

12^o Scientific Conference of the Greek Society of Botany. Rethymnon-Crete September

29-October 2, **2011**.

4° Congress Scientific Company MikroBioKosmos. Ioannina-Greece 21 to 23 October **2011**.

Courses on DNA-Barcoding, «Integrative taxonomy and taxonomic expertise in the framework of the DNA-barcoding initiative», Museum National D'Histoire Naturelle. Paris-France 19-23 march **2012**.

First International Conference «The role of biobanks for research and protection of forest biodiversity», Santa Maria in Gradi. University of Tuscia, Viterbo-Italy 19-21 April **2012**.

Workshop on Next Generation Sequencing Technologies & Informatics Tools for Studying Marine Biodiversity & Adaptation. European Framework Project MARBIGEN (FP7-REGPOT-2010-1), Institute of Marine Biology, Biotechnology and Aquaculture, HCMR. Heraklion-Crete 1-3 October **2012**.

5° National Conference of Scientific Society MikroBioKosmos "The MikroBioKosmos the food chain, from biodiversity to applications." Agricultural University of Athens, 13-15 December **2012**.

Open Information Day "Biotechnology & Safety in modern crop protection 'under the European FP7-REGPOT-2008-1 program: BPI Plant-Heal 230010« Development of the Benaki Phytopathological Institute Centre of Excellence in the areas of plant health and crop protection. "Benaki Phytopathological Institute, Kifissia, December 17, **2012**.

High Throughput Omics & Data Integration Workshop. COST Workshops. Barcelona-Spain 13 - 15 February **2013**.

13° Panhellenic Scientific Conference of the Greek Botanical Society "Green Hope: The botanical today, theory and practice." Dissemination Center for Research Results, Aristotle University of Thessaloniki, Thessaloniki-Greece, 3-6 October **2013**.

Microbial Genomics & Metagenomics Workshop. U.S. Department of Energy Joint Genome Institute (DOE, JGI), Walnut Creek, California-United States, May 5 - 9, **2014**.

Complex Soil Systems Conference "A Path to Improved Understanding of Complex Soil Systems" Berkeley Lab and DOE, Berkeley, California-United States, 3-5 September **2014**.

6° Conference of the Hellenic Scientific Society Microbiokosmos «Mikrobiokosmos: New Horizons in the Micro World» National Hellenic Research Foundation, Athens-Greece 3-5 April **2015**.

13° International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions (ICZEGAR). Natural History Museum of Crete. Heraklion-Crete, 7-10 October **2015**.