

# SHORT CURICULLUM VITAE M.A.TYPAS, 2015

## SHORT CURICULLUM VITAE

Milton A. Typas

2015

### POSITIONS HELD

- 1975-1977** Post-Doctoral and Temporar Lecturer, University of London (Queen Elizabeth College)  
**1978-1980** Lecturer, Athens University 1978-1980  
**1980-1986** Tenured Lecturer at Athens University  
**1986-1992** Senior Lecturer  
**1992-2000** Reader  
**Jan2001-** Professor, Head of the Department 1997-98, 1999-2000, 2002-2015.

### VISITING PROFESSOR

- 1989-1990** Visiting Professor, King's College, London University 1989-1990 (one year, sabbatical leave of absence).  
**1990** Visiting Researcher, Julich, Kernforschungsanlage, Germany 1990 (3 months)  
**2000** Visiting Professor, Novartis Research Centre (NIMRI) – U.C. San Diego (4 months, sabbatical leave of absence).  
**2001-2002** Visiting Professor, Cornell University, NY, 2001-2002 (14 months; sabbatical leave of absence).  
**1981-2000** Visiting-collaborating researcher with various Universities-Institutes in Europe (Belgium, France, Germany, Netherlands and UK) for short periods at summers (total around 6 months).

### SCHOLARSHIPS

- 1970-1971** Research Centre Democritus 1970-71 (undergraduate research assistantship), Athens, GR  
**1972-1975** London University, QEC, UK, 1972-1975 (Ph.D. demonstratorship)  
**1975-1977** London University and Agricultural Research Council, UK, Postdoctoral and Temporar Lecturer  
**1977** Royal Society of Britain  
**1978, 1980,**  
**1981, 1982** Junior Researcher, British Council, QEC, UK, (summer 3 month grants)  
**1983, 1985** EMBO, and EU mobility grants, London University, KQC, UK and Julich, Germany (summer 3 month grants)  
**1990, 1994** British Council, KQC, UK (9 months and 2 months; Senior Researcher)

### FUNDED RESEARCH PROJECTS

EU

- 1984-1986** Biotechnology Engineering Programme [BEP-DGXII-EC].  
**1986-1989** Biotechnology Action Programme [BAP-DGXII-EC].  
**1990-1993** Biotechnology [BIOTECH- DGXII-EC].  
**1994-1996** Human Capital Mobility. Insect pathogenic fungi for economic, environmentally friendly pest control in the glasshouse (AIR3-CT94-1352)  
**1995-1998** AIR3-CT94-1352. Biocontrol of important soil dwelling pests by improving the efficacy of insect pathogenic Fungi [BIPESCO].  
**1998-2001** FAIR6-CT98-4105. Determining molecular markers for the genetic analysis of recombinant strains of entomopathogenic fungi used for biological control.  
**2002-2005** QLK-CT-2001-01391: Risk Assessment of Biological Control Agents [RAFBCA].  
**2005-2008** FP6-2004-SSP-4: Specific Support Action, Regulation of Biocontrol Agents [REBECA]  
**2010-2012** Molecular identification and characterization of *Beauveria bassiana* strains INRA 147, ATCC4040, BELCHIM BB1, NPP-111B005 and Laverlam.

# SHORT CURRICULLUM VITAE M.A.TYPAS, 2015

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## National-EU

- 1986-1988** ΠΡΟΠΕ The genetics and physiology of *Zymomonas mobilis*
- 1989-1992** ΠΕΝΕΔ Production of bioethanol by the entanologenic bacterium *Zymomonas mobilis*.
- 1995-1998** ΕΠΕΤ II An integrated and novel approach of producing added value products (amino acids and oligosaccharides) from by-products of sugar producing factories.
- 1996-1998** ΠΕΝΕΔ II Genetic fingerprinting and phylogenetic relationships of plant pathogenic and non-pathogenic species of the genus *Verticillium* based on molecular, genetic and immunogenetic techniques.
- 1997-1998** ΠΑΒΕ Reduction of losses in sugar production by controlling microbial activities in the line Industrial production.
- 1997-1999** Joint Research and Technology Projects: Franco-Greek binational Collaboration on «Determining molecular markers for the genetic identification and analysis of genetic recombinant strains of the entomopathogenic fungi *Verticillium lecanii* and *Beauveria bassiana* that are used as biocontrol agents».
- 1998-1999** GREEK-RUSSIAN BINATIONAL COLLABORATION: An integrated approach to the identification of species and subspecies grouping in the genus *Verticillium*.
- 1998-2001** ΕΠΕΤ II The alcoholic fermentation during wine production: Screening and assessment of 7 yeasts, study of fermentation parameters and quality improvement of wines produced.
- 1999-2002** ΠΕΝΕΔ 99 “Molecular mechanisms of bacterial resistance to variable sugar concentrations –industrial lines- in microorganisms of industrial interest.
- 1999-2002** ΕΠΕΤII- ΒΙΟΠΡΟ- 98GE2, “Improved technologies to increase resistance of plants to bacterial and fungal pathogens by genetic engineering, non invasive genetic approaches and other –non chemical- strategies. ‘Construction and development of a comprehensive interactive database for the analysis of fungal mitochondrial genomes”
- 2002-2004** HUMAN NETWORKS, ‘Biotechnological and bio-ethical approaches towards employing microorganisms for industrial, clinical, agricultural and environmental applications’.
- 2003-2006** ΕΚΒΑΝ-ΕΠΕΤII-TP5: ‘An integrated strategy for the safety of Dairy Product Industry from microbial contamination: use of fast, modern and accurate methods for the detection and genetic identification of spoiling or pathogenic microorganisms – development of model examination plan for the everyday handling in the production lines’.
- 2004-2007** ΕΚΒΑΝ-ΕΠΕΤII- ΦΠ66 ‘Biological treatment and exploitation of Olive oil Mill Wastewater: Mechanisms and integrated applications’.
- 2011-2014** ΗΡΑΚΛΕΙΤΟΣ II: Genetic and molecular study of heterokaryosis in the plant pathogenic fungi of the genus *Verticillium*.
- 2013-2015** THALIS MIS 63.0001 ‘Biological Investigation Of the Forces that Influence the Life of Pathogens having as Mission to Survive in various Lifestyles [BIOFILMS]
- 2013-2015** THALIS MIS 377062 “Metagenomics of ligninolytic microorganisms – Bioconversion of plant by-products into high-added value products ”[LIGNOMET]. Coordinator
- 2013-2015** COOPERATION 2011 “The Sustainable Integrated Method for the Production of Lignocellulosic Ethanol” [SIMPLE].

## ADMINISTRATIVE ACTIVITIES

- 1982-1996** Executive member of the National Hellenic Research Foundation 1982-1996 (6 consecutive terms).
- 1982-1988** Director of the National Documentation Centre, National Hellenic Research Foundation (EKT),  
Executive member and Vice-Chairman of its Scientific Committee 1989-1999.
- 1982-1987** National Delegate for Science and Technology, U.N.
- 1983-1986** National Representative for the Committee for Science and Technology Programme, EC.
- 1986-2005** Member of Advisory Committees for Science and Technology (CCE) in EU, and Expert of National Delegations in Science & Research, Biotechnology, Agriculture

## SHORT CURRICULUM VITAE M.A.TYPAS, 2015

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- and Energy DG's VI, XII and XIII, EU.
- 1986-2010** Independent expert/evaluator of research proposals and grant applications of young investigators in the EU (more than 200 proposals and 300 applications, respectively, in subjects of Biotechnology, Molecular-Microbial Genetics, Biodiversity, Biosafety, Plant Pathology, Plant-microbe interactions, Biocontrol, Biomass, Bioethanol etc) for various Programmes [e.g. BIOTECH, FAIR, COST, INTAS, COPERNICUS, THIRD COUNTRIES, STP, MARIE-CURRIE, FP5, FP6, FP7].
- 1996-1998** Member of the National Advisory Committee for Research (ΕΓΣΕ).
- 2001-2004** Member of the National Council for Research and Technology (ΕΣΕΤ).
- 1996-2004** Chairman Special Advisory Committee in Biotechnology.
- 1982-2014** Reviewer of research manuscripts for more than 50 International ICI-Indexed Journals and member of the editorial board in three Journals. Has reviewed more than 600 manuscripts. Also, the reviewer of 14 book chapters.
- 2007-2010** Executive Member of the Research Committee of the National and Kapodistrian University of Athens.
- 2010-2014** Full member of the Executive Research Committee of the National and Kapodistrian University of Athens. Τακτικό μέλος της Επταμελούς Επιτροπής Ερευνών Ε.Κ.Π.Α.
- 1997-2004** Member of the National Competent Authority for the control of genetically engineered organisms and products.
- 1996-2010** Ad hoc expert-advisor for GMO organisms/products in EU Committees.
- 1995-1997** Vice-Chairman of the Faculty of Biology, University of Athens
- 2003-2015** Head of the Department of Genetics and Biotechnology  
Member of electoral bodies for Faculty member evaluations in all Greek Universities (more than 70 elections during the past decade)  
Member of electoral bodies for all the Research Institutes of Greece (over 20 elections of directors and researchers of Institutes during the past years).

### **RESEARCH ACTIVITIES/EXPERIENCE**

Head of the Microbial-Molecular Genetics and Biotechnology group. Research interests are divided into two major lines:

**a) Fungal Genetics / Biotechnology:** Molecular typing/genetic fingerprinting of fungi with economic importance (phytopathogenic, entomopathogenic, yeasts), based on standard molecular techniques (RFLPs, RAPD, AFLP, DGGE, PFGE, PCR, RT-PCR, DNA/DNA, DNA/RNA hybridizations, immunolabelling, etc). Analysis of completed fungal mitochondrial genomes, gene structure-function, and phylogenetic relationships (an interactive database –MitoFun- to appear shortly at the net). Host-parasite relationships with model entomopathogens and phytopathogens. Study of the molecular mechanisms of heterokaryosis in mitosporic fungi. Phylogenetic analysis/implications, biodiversity and biosafety. Isolation, cloning and characterization of basidiomycetes genes involved in wood decomposition and assessment of their potential in ethanol production. Genomic and metagenomic approaches for the discovery and isolation of novel genes/gene products involved in cellulose and ligninocellulose degradation.

More classical approaches like mutagenesis, mutant production/characterization, mitotic recombination analyses, protoplast regeneration, protoplast fusion, transformation of cloning/expression vectors, gene isolation/characterization, gene-overexpression and the exploitation of parasexual cycle are also routinely used. Construction of knock-out mutants by gene-replacement/gene-inactivation methods are in use for fungi of interest.

**b) Bacterial Genetics / Biotechnology:** Various bacteria are used for the production of enzymes, fine chemicals and polysaccharides of industrial importance. Chemical and transposon mutagenesis, isolation and characterization of plasmids, transposable elements, isolation-cloning-characterization of genes, strain construction, construction of suitable cloning and expression vectors etc. are common lab practices. Particular emphasis is placed on the genetics of the ethanol producing bacterium *Zymomonas mobilis*, which is used as a model organism. Collaborations with the JGI/DOE of USA (PI, Dr K-M.Pappas) resulted in the complete sequencing and annotation of the genomes of 6 different

## SHORT CURRICULLUM VITAE M.A.TYPAS, 2015

*Zymomonas* strains and the transcriptome analysis of the most important strain for ethanol production under various conditions is pending. Genetic engineering of strains of the bacterium for the production of bioethanol from cellulosic-ligninocellulosic residues as well as of value added chemicals is under the way in collaboration with Ass.Prof. K-M.Pappas.

The lab is equipped with all necessary instruments to contact experiments in Molecular-Microbial Genetics and Biotechnology.

Apart from the collaboration with the Assistant Professor Dr.K-M.Pappas and her research group, collaboration includes the Lecturer Dr.V.N.Kouvelis, the PostDocs Dr.I.Papaioannou, Dr.G.Efthymiou, and the Ph.D. students- researchers M.Kalntremtziou, V.Diakogiannaki, V.Vaggalis.

### **TEACHING AND Ph.D. SUPERVISOR/EXAMINER**

The co-ordinator of three under-graduate courses: (a) Basic Genetics (compulsory), (b) Advance Genetics (choice course), (c) Biotechnology (choice course), and one post-graduate course for Ph.D. students, in Advanced Molecular Genetics. Also teaching –lectures- in 3 different M.Sc. courses. Supervisor of 40 Ph.D. theses (22 directly his own students who have graduated, and 18 from Research Institutes, as acting supervisor according to Greek, all of whom have graduated).

Member of the examination board for more than 200 Ph.D. theses in Greece and 16 abroad (U.K.4, France 3, Spain 2, USA 2, and 1 in each of Germany, Canada, India and Pakistan).

### **CONFERENCES, MEETINGS AND SYMPOSIA**

President of Organizing Committees in 3 International and 12 National Conferences/Symposia. Organizing Committee Member and Chair in 51 occasions, invited speaker (50 International and 40 National Conferences/Meetings), with more than 220 published presentations, abstracts and posters. Invited speaker on ‘popularized Biology science’ at Town Halls and Open Universities. Speaker on GMOs and participation at round table discussions in tens of cases during the period 1995-2008.

### **OTHER ACTIVITIES**

Has deposited more than 1,000 different sequences/packets of sequences in public domains like the NCIB Gene Bank. Some of the most important are: (a) the complete genomes of 6 bacteria, 12 fungal mitochondrial DNAs and 18 large plasmids, and (b) packets in population studies, *Verticillium* (252); *Metarhizium* (234); *Lecanicillium* (230); *Beauveria* (190); *Candida zemplinina* (28); *Zymomonas mobilis* (50); the yet unreleased *Aspergillus* (224) ; *Penicillium* (360), *Pleurotus* (416) and many single entries.

Author of books (2) and booklets (6) for University underground students, 22 chapters in books and collective volumes [some of the more recent: “*Verticillium*”. In “Molecular detection of human fungal pathogens”, ed. Liu D, JF Taylor & Francis CRC Press, Chapter 63, p.527-540 (2011); “Phylogenetic analysis of entomopathogenic fungi”. In “Microbial Insecticides: Principles and applications” ed. Borgio JF, Schavaraj H & Susurluk A, NOVA Science Publishers, (2011); “Assessing genotoxic effects of microbial products”, in "Microbes and the Law - Safety Assessment and Regulation of Beneficial Microorganisms", Chapter 7, Editors: Ingvar Sundh, Andrea Wilcks & Mark S. Goettel, CABI Publishing (2012); “A Phylogenetic analysis of Greek isolates of *Aspergillus* species based on morphology, nuclear and mitochondrial gene sequences” in *Microbial Diversity for Biotechnology*, ed. Hindawi Publications (2013)].

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## SHORT CURRICULLUM VITAE M.A.TYPAS, 2015

### **MOST RECENT PUBLICATIONS (LAST 10 YEARS)**

1. Wang C, Typas MA and Butt TM (2005). Phylogenetic and exon-intron structure analysis of fungal subtilisins : Support for a mixed model of intron evolution. *Journal of Molecular Evolution* **60**: 238-246.
2. Pantou M and Typas MA (2005). Electrophoretic karyotype and gene mapping of the vascular wilt fungus *Verticillium dahliae*. *FEMS Microbiology Letters* **245**: 213-220.
3. Pantou MP, Strunnikova OK, Shakhnazarova VYu, Cishnevskaya NA, Papalouka VG and Typas MA (2005). Molecular and immunochemical phylogeny of *Verticillium* species. *Mycological Research* **109**: 889-902.
4. Pramateftaki P, Lanaridis P, Kouvelis VN and Typas MA (2006). The mitochondrial genome of the wine yeast *Hanseniaspora uvarum* : a unique genome organization among yeast/fungal counterparts. *FEMS Yeast Research* **6**: 77-90.
5. Ghikas D, Kouvelis VN and Typas (2006). The complete mitochondrial genome of the entomopathogenic fungus *Metarhizium anisopliae* var. *anisopliae* : gene order and *trn* clusters revealed a common evolutionary course for all Sordariomycetes. *Archives for Microbiology* **185**: 393-401
6. Pantou MP, Kouvelis VN and Typas (2006). The complete mitochondrial genome of the vascular wilt fungus *Verticillium dahliae*: a novel gene order for *Verticillium* and a diagnostic tool for species identification. *Current Genetics* **50**: 125-136.
7. Pramateftaki P, Kouvelis VN, Lanaridis P and Typas MA (2008). The complete mitochondrial genome sequence of the wine yeast *Candida zemplinina*: intra-species distribution of a novel group-IIB1 intron with eubacterial affiliations. *FEMS Yeast Research*. **8**: 311-327.
8. Kouvelis VN, Ghikas D, Edgington S, Typas MA and Moore D (2008). Molecular characterisation of isolates of *Beauveria bassiana* obtained from over-wintering and summer populations of Sunn Pests (*Eurygaster integriceps*). *Letters in Applied Microbiology* **46**: 414-420.
9. Georgopoulos A, Typas MA and Demetzos K (2008). The use of liposomes as biosensors. An overview. *Pharmakeftiki* **21**: 22-29.
10. Kouvelis VN, Sialakouma A and Typas MA (2008). Mitochondrial gene sequences alone or combined with ITS region sequences provide firm molecular criteria for the classification of *Lecanicillium* species. *Mycological Research* **112**: 829-844.
11. Pantou MP, Kouvelis VN and Typas MA (2008). The complete mitochondrial genome of *Fusarium oxysporum*: insights into fungal mitochondrial evolution. *Gene* **419**: 7-15.
12. Kouvelis VN, Saunders E, Brettin TS, Bruce D, Detter C, Han C, Typas MA and Pappas KM (2009). Complete genome sequence of ethanol producer *Zymomonas mobilis* NCIMB 11163. *Journal of Bacteriology* **191**: 7140-7041. Epub 2009 Sep 18.
13. Yang S, Pappas KM, Hauser LJ, Land ML, Chen G-L, Hurst GB, Pan C, Kouvelis V, Typas MA, Pelletier DA, Klingeman DM, Chang Y-J, Samatova NF and Brown SD (2009). Improved genome annotation for *Zymomonas mobilis*. *Nature Biotechnology* **27**: 893-894 (+additional material).
14. Ghikas DV, Kouvelis VN and Typas MA (2010). Phylogenetic and biogeographic implications inferred by mitochondrial intergenic region analyses and ITS1-5.8S-ITS2 of the entomopathogenic fungi *Beauveria bassiana* and *B. brongniartii*. *BMC Microbiology* **10**:174 doi:10.1186/1471-2180-10-174.
15. Goudopoulou A, Krimitzas A and Typas MA (2010). Differential gene expression of ligninocellulolytic enzymes in *Pleurotus ostreatus* grown on olive-oil mill wastewater. *Applied Microbiology and Biotechnology* **88**: 541-551. Doi:10.1007/s00253-010-2750-9.
16. Kouvelis VN, Pappas K-M, Wang C, Skrobek A, Typas MA and Butt TM (2011). Assessing the cytotoxic and mutagenic effects of secondary metabolites produced by several fungal biological control agents with the Ames assay and the VITOTOX test. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* **722**: 1-6.

## SHORT CURRICULLUM VITAE M.A.TYPAS, 2015

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17. Pappas KM, Kouvelis VN, Saunders E, Brettin TS, Bruce D, Detter C, Balakireva M, Han C, Savvakis J, Kyrpides NC and Typas MA (2011). Genome sequence of the ethanol-producing *Zymomonas mobilis* subsp. *mobilis* lectotype ATCC 10988. *Journal of Bacteriology* **193**: 5051-5052, doi:10.1128/JB.05395-11.
18. Kouvelis VN, Davenport KW, Brettin TS, Bruce D, Detter C, Han C, Nolan M, Tapia R, Damoulaki A, Kyrpides NC, Typas MA and Pappas KM (2011). Genome sequence of the ethanol-producing *Zymomonas mobilis* subsp. *pomaceae* lectotype ATCC 29192. *Journal of Bacteriology* **193**: 5049-5050, doi:10.1128/JB.05273-11.
19. Typas MA and Kouvelis VN (2011). Phylogenetic analysis of entomopathogenic fungi. In “Microbial Insecticides: Principles and applications”. ed. Borgio JF, Sahayaraj K and Susurluk IA, NOVA Science Publications, Inc., NY., chapter 7, p.121- 148.
20. Pantou MP and Typas MA (2011). *Verticillium*, In “Molecular detection of human fungal pathogens”. ed. Liu D, JF Taylor & Francis CRC Press, chapter 63, p.527-540.
21. Typas MA, Pantou MP and Kouvelis VN (2011). MtDNA and rDNA: Two different evolutionary lines combined for genetic differentiation, taxonomy and phylogenesis in ascomycetes. XVI Congress of European Mycologists, Chalkidiki, 19--23 Sept. 2011, pp.170-188.
22. Desiniotis A., Kouvelis VN, Davenport K, Bruce D, Detter C, Tapia R, Han C, Goodwin LA, Woyke T, Kyrpides NC, Typas MA and Pappas KM (2012). The complete sequence of the ethanol-producing *Zymomonas mobilis* subsp. *mobilis* centrotpe ATCC 29191. *Journal of Bacteriology* **194**: 5966-67, DOI: 10.1128/JB.01398-12.
23. Typas MA and Kouvelis VN (2012). Assessing genotoxic effects of microbial products. In “Beneficial microorganisms in agriculture, food and the environment: safety assessment and regulation”, ed. Sundh I, Wilcks A & Goettel M, CABI Publ., chapter 18, pp. 256-274, DOI 10.1079/9781845938109.0256.
24. Ligoxigakis EK, Papaioannou IA, Markakis EA and Typas MA (2013). First report of pink rot of Phoenix and Washingtonia palm species caused by *Nalanthamala vermoesenii* in Greece. *Plant Disease* **97** (2): 285. (dx.doi.org/10.1094/PDIS-08-12-0725-PDN)
25. Ligoxigakis EK, Markakis EA, Papaioannou IA and Typas MA (2013). First report of palm rot disease of Phoenix spp. caused by *Neodeightonia phoenicum* in Greece. *Plant Disease* **97** (2): 286. (dx.doi.org/10.1094/PDIS-08-12-0727-PDN)
26. Papaioannou IA, Ligoxigakis EK, Vakalounakis DJ, Markakis EA and Typas MA (2013) Phytopathogenic, morphological, genetic and molecular characterization of a *Verticillium dahliae* population from Crete, Greece. *European Journal of Plant Pathology* **136**: 577-596, (DOI: 10.1007/s10658-013-0189-4).
27. Ligoxigakis EK, Papaioannou IA, Markakis EA and Typas MA (2013). First report of leaf spot of *Phoenix theophrasti* caused by *Paraconiothyrium variable* in Greece. *Plant Disease* **97** (9): 1250. (doi: dx.doi.org/10.1094/PDIS-01-13-0114-PDN)
28. Krimitzas A, Pyrri I, Kouvelis VN, Kapsanaki-Gotsi E and Typas MA (2013). A Phylogenetic analysis of Greek isolates of *Aspergillus* species based on morphology, nuclear and mitochondrial gene sequences. *Journal of Biomedicine and Biotechnology* Article ID 260395, 18 pages. (in Microbial Diversity for Bioetchnology, ed. Tsiamis G, Karpouzas D, Scherif A, Mavrommatis K, Hindawi Publ.)
29. Papaioannou IA, Dimopoulou Ch. and Typas MA (2013). Analysis of the intergenic region of the nuclear ribosomal complex of *Verticillium dahliae*: a molecular tool for discrimination and phylogenetic study of vegetative incompatibility groups. *FEMS Microbiology Letters* **347** (1): 23-32.
30. Ligoxigakis EK, Markakis EA, Papaioannou IA and Typas MA (2013). First Report of Petiole (Rachis) Blight of *Washingtonia filifera* Caused by *Phoma glomerata* in Greece. *Plant Disease* **97** (11): 1509-1510. (doi.org/10.1094/PDIS-04-13-0383-PDN)

## SHORT CURICULLUM VITAE M.A.TYPAS, 2015

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31. Eboigbe L, Tzima AK, Paplomatas EJ and Typas MA (2014). Investigating the role of a  $\beta$ -endoglucanase gene, *vegB*, in physiology and virulence of *Verticillium dahliae*. *Phytopathologia Mediterranea* **53** (1): 94-107. ([http://dx.doi.org/10.14601/Phytopathol\\_Mediterr-13235](http://dx.doi.org/10.14601/Phytopathol_Mediterr-13235)).
32. Kouvelis VN, Teshima H, Bruce D, Detter C, Tapia R, Han C, Tampakopoulou V-O, Goodwin T, Woyke T, Kyrpides N, Typas MA, Pappas KM (2014). Finished genome of *Zymomonas mobilis* subsp. *mobilis* strain CP4, an applied ethanol producer. *Journal of Bacteriology* January/February 2014 vol. 2, no. 1, e00845-13.
33. Papaioannou IA and Typas MA (2014). 'Cryptic' group-I introns in the nuclear SSU-rRNA gene of *Verticillium dahliae*. *Current Genetics* **60**: 135-148. DOI 10.1007/s00294-013-0417-7.
34. Zervakis, GI, Ntougias S, Gargano ML, Besi MI, Polemis E, Typas MA and Venturella G (2014). A new *Pleurotus* species from Europe and reappraisal of the *P. eryngii* species-complex based on a polyphasic approach, with a key to taxa associated to Apiaceae host-plants. *Fungal Biology* **118**: 814-834. doi: 10.1016/j.funbio.2014.07.001.
35. Ligoixakis EK, Markakis EA, Papaioannou IA and Typas MA (2015). First Report of Powdery Mildew of *Platanus*  $\times$  *acerifolia* and *P. occidentalis* Caused by *Erysiphe platani* in Greece. *Plant Disease* **99** (2). 286 ([dx.doi.org/10.1094/PDIS-07-14-0713-PDN](http://dx.doi.org/10.1094/PDIS-07-14-0713-PDN)).
36. Papaioannou IA and Typas MA (2015). Barrage zone formation is independent from vegetative incompatibility in *Verticillium dahliae*. *European Journal of Plant Pathology* **141**: 71-82. doi: 10.1007/s10658-014-0525-3.
37. Papaioannou IA and Typas MA (2015). Vegetative compatibility in *Verticillium dahliae*: high-throughput assessment and genetic aspects. *Journal of Phytopathology* **163**: 475-485. DOI: 10.1111/jph.12345.