

CURRICULUM VITAE

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Associate Professor in Molecular
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Personal Information:

Name :	Anastasia Tampakaki
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EDUCATION

- 1994- 1999:** Ph. D. in Plant Molecular Biology and Biotechnology. Department of Biology, University of Crete, Greece. Thesis on "Molecular and biochemical analysis of type III secretion components in the phytopathogenic bacterium *Pseudomonas syringae* pv. phaseolicola and elucidation of their role in hypersensitive reaction of plants". Advisor: N. J. Panopoulos.
- 1991-1993:** MASTER'S in Molecular Biology. Department of Biology, University of Crete, Thesis on "Characterization of regulatory elements and transcription factors required in hepatic and intestinal transcription of human *apoCIII* gene". Advisor: J. Talianidis.
- 1987- 1991:** BACHELOR'S DEGREE in Biology, Department of Biology, University of Crete

ACADEMIC POSITIONS

- 2021-present** Associate Professor in Molecular Microbiology at the Department of Agriculture, Hellenic Mediterranean University, Crete, Greece.
- 2017-2021 :** Associate Professor in Molecular Microbiology at the Department of Crop Science, the Agricultural University of Athens.
- 2013-2017 :** Assistant Professor in Molecular Microbiology at the Department of Crop Science, the Agricultural University of Athens.
- 2012-2013:** Assistant Professor in Molecular Microbiology at the Department of Agricultural Biotechnology, Agricultural University of Athens.
- 2006-2012:** Lecturer in Molecular Microbiology at the Department of Agricultural Biotechnology, Agricultural University of Athens.

RESEARCH POSITIONS

- 2021-present** Affiliated Researcher at the Institute of Agri-Food and Life Sciences, Hellenic Mediterranean University Research Centre.
- 2003-2005:** Research Associate in Biochemistry, Department of Biology, University of Crete, Greece.
- 2002-2006:** Research Associate in Plant Genetics and Biotechnology, Technological Institute of Crete, Greece.
- 2001- 2002:** Postdoctoral Fellow, Harvard Medical School and Massachusetts General Hospital, Boston, USA.
- 1999-2001:** Postdoctoral Fellow, Institute of Molecular Biology and Biotechnology, Foundation for research and Technology, Greece.

TEACHING EXPERIENCE

A. Undergraduate courses

- 2021-present :** Undergraduate lectures and lab exercises in **“Soil Microbiology”** and **“Sustainable management of biotic resources in agriculture”**. Department of Agriculture, Hellenic Mediterranean University.
- 2015-2021 :** Undergraduate lectures and lab exercises in **“Principles of Molecular Biology”**. Department of Crop Science, Agricultural University of Athens.
- 2013-2021:** Undergraduate lectures and lab exercises in **“General Microbiology”**, **“Microbial Biotechnology”**, **“Soil Microbiology”** and **“Biochemistry”**. Department of Crop Science, Agricultural University of Athens.
- 2007-2013:** Undergraduate lectures and lab exercises in **“General Microbiology”**, **“Microbial Biotechnology”**, and **“Environmental Microbiology”**. Department of Agricultural Biotechnology, Agricultural University of Athens.
- 2003-2005:** Undergraduate lectures in **“Biochemistry I and II”**, **“Molecular physiology”**, and **“Applied Biology”**. Department of Biology, University of Crete.
- 1998-2006:** Undergraduate lectures and lab exercises in **“Genetics”**, **“Plant Biotechnology”**, **“Plant Improvement”**, and **“Botany”**. Department of Agriculture, Technological Institute of Crete.

B. Graduate courses

- 2021-present:** Lectures in the Master’s Degree Program : **“Applied Science and Technology in Agriculture”** at the Department of Agriculture, Hellenic Mediterranean University.
- 2015-2019:** Lectures in the Master’s Degree Program : **“Agro-Biotechnology of Plants and Microorganisms of agricultural importance”** at the Department of Crop Science, Agricultural University of Athens.

- 16-20 October 2017** Invited lecture on “Advances in plant-microbial communities interactions” for the advanced course on “Advances in breeding and agronomy for improving sustainability and quality of grain legume crops”, organized by Mediterranean Agronomic Institute of Zaragoza (CIHEAM, IAMZ), Zaragoza (Spain), 16-20 October 2017.
- 2007-2013:** Lectures in the Master’s Degree Program: “**Biotechnology and Applications in Agriculture**” at the Department of Agricultural Biotechnology, Agricultural University of Athens.
- 2007-2014:** Lectures in the Interdepartmental Master’s Degree Program: “**Protein Biotechnology**” at the Departments of Biology and Chemistry, University of Crete.
- 2007-2015:** Lectures in the Master’s Degree Program: “**Microbial Biotechnology**” at the Department of Biology, National and Kapodistrian University of Athens.

C. Training undergraduate and graduates students:

- 2012-present:** Supervision of two PhD theses at the Department of Crop Science, Agricultural University of Athens.
- 2007-present :** Supervision of several dissertation works for graduate and undergraduate students at the Agricultural University of Athens and National and Kapodistrian University of Athens.
- 2007-present:** Member of Supervisory committees of several graduate and postgraduate students (>30) at the Agricultural University of Athens, National and Kapodistrian University of Athens, University of Crete and the Technological Institute of Crete in Greece.

RESEARCH ACTIVITIES

PARTICIPATION IN RESEARCH GRANTS/PROJECTS:

Horizon 2020 2017-2020	<i>“TomRes” : A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model. Horizon 2020, Proposal number: 727929-2. Research partner.</i>
Horizon 2020 2017-2020	<i>“True” : Transition paths to sustainable legume based systems in Europe”. Horizon 2020, Proposal number: 727973-2. Research partner.</i>
“FP7- EUROLEGUME” 2014-2018	<i>“EUROLEGUME” : Enhancing of legumes growing in Europe through sustainable cropping for protein supply for food and feed. FP7 Research Project N° 613781, 2014-2018. Research partner.</i>
National Grant “THALIS” 2012-2015	<i>“BIOFILMS” : Biological Investigation Of the Forces that Influence the Life of pathogens having as Mission to Survive in various Lifestyles”. Agricultural University of Athens, Greece. Research partner.</i>
National Grant “THALIS” 2012-2015	<i>“BIOHYDROX-T” : “Metabolic engineering of model biofactories by recruiting the genetic resources of plants and microorganisms for the heterologous production of hydroxytyrosol with direct application in plant protection”. Technological Educational Institute of Crete, Greece. Research partner.</i>
Bilateral grant (Greece-USA): 2007-2008	<i>Bilateral grant (Greece-USA): “Functional Genomic analysis of molecular determinants involved in plant-pathogen interactions and epiphytic fitness on plants”. Institute of Molecular Biology and Biotechnology, Greece. Research partner.</i>
“PYTHAGORAS II” 2004-2007	<i>National grant PYTHAGORAS II: “Virulence proteins and chaperones III: Elucidation of novel targets for antimicrobial drugs and applications in crop improvement”. Institute of Molecular Biology and Biotechnology, Greece. Research partner.</i>
“ARCHIMEDES I” 2004-2006	<i>National grant ARCHIMEDES I: “Biotechnological applications through genetic modification of Saccharomyces cerevisiae for the heterologous production of bioactive substances of plant and bacterial origin and their exploitation in integrated (non chemical) phytoprotection of grape vine and wine making”. Technological Institute of Crete, Greece. Research partner.</i>
“ARCHIMEDES I” 2004-2006	<i>National grant ARCHIMEDES I: “Disease management of powdery mildews in crops of cucurbit and solanaceous plants with alternative (non chemical) approaches”,</i>

- Technological Institute of Crete, Greece. Research partner.
- 2001-2002 (USA)**
 "Microarrays analysis of *Pseudomonas aeruginosa*", Mass General Hospital and Harvard Medical School, Research Associate.
- "PHYTOHEALTH" 2003-2006**
 PHYTOHEALTH της Ευρωπαϊκής Ένωσης (Thematic Network). "Improving health through dietary phytoestrogens: a pan-European network on consumers: Issues and opportunities for producers". European Union, 5th F.P. QLK1-CT-2002-02453.
- "PENED 99" 1999-2001**
 National grant PENED 99 : "Development of innovative methodology for the study of molecular mechanisms of plant-pathogen interactions and the molecular diagnosis of soil pathogens". General Secretariat for Research and Technology, Greece. Institute of Molecular Biology and Biotechnology, Greece. Research partner. No 99ΕΔ 313.
- 1999-2001**
 EU grant: "Molecular studies of proteins related to the interactions of plants and pathogens". European Union, BIO4-CT98-0086. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP4-BIOTECH 2" 1998-2000**
 "The european bio-crystallogensis initiative": "Molecular manipulations of proteins associated with plant-microbe interactions". No. BIO4-CT98-0086. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP4-BIOTECH 2" 1998-2000**
 "Restriction endonucleases and DNA methyltransferases: structures interactions with DNA and engineering of novel functions». No. BIO4-CT98-0328. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP4-BIOTECH 2" 1997-2000**
 "Delivery of elicitors and pathogenicity factors from bacterial pathogens and their interaction with plant cells: application of basic studies" No. BIO4-CT97-2244. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP3-BIOTECH 1" 1993-1997**
 "Plant molecular genetics for an environmentally compatible agriculture" No. BIO2-CT93-0400. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP2-BRIDGE" 1993-1994**
 «Genes required for pathogenicity of bacteria to plants & application of knowledge in biological control of diseases of crops» No. BIOT-CT90-0168. Institute of Molecular Biology and Biotechnology, Greece. Research associate.
- "FP2-BRIDGE" 1991-1993**
 "Structural and functional analysis of regulatory genes controlling liver-specific proteins". No. BIOT0260. Institute of Molecular Biology and Biotechnology, Greece. Research associate.

AWARDS - FELLOWSHIPS-COMMITTEES

- 2021-present** Member of the Internal Evaluation Group (OM.E.A) of the Department of Agriculture, Hellenic Mediterranean University.
- 2017-present** Certified evaluator of research proposals at the General Secretariat for Research and Innovation and at the Greek Ministry of Education and Religious Affairs.
- 2011-2013:** Erasmus Departmental Coordinator at the the Department of Agricultural Biotechnology, Agricultural University of Athens.
- 2007-2009:** Member of the Examiner Committee for graduate scholarships in Agricultural Biotechnology at the State Scholarships Foundation, Greece.
- 1999-2001:** Postgraduate fellowship, Institute of Molecular Biology and Biotechnology, Heraklion, Crete, Greece.
- 1999:** First Prize of the Hellenic Society of Biochemistry and Molecular Biology for best presentation on subject: "Molecular architecture of type III secretion system in plant and animal pathogens". 51th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece
- 1994-1999:** Ph. D. Fellowship, Institute of Molecular Biology and Biotechnology, Heraklion, Crete, Greece.
- 1991-1993:** M. Sc Fellowship, Institute of Molecular Biology and Biotechnology, Heraklion, Crete, Greece.
- 1987-1991:** Undergraduate fellowships, each year, State Scholarships Foundation, Greece.

SPEAKING INVITATIONS

- 2020** Invited Speaker: "14th European Nitrogen Fixation Conference", 27-30 August 2020, Naples, Italy.
- 2020** Invited Speaker : "5th Scientific Meeting for local and indigenous plant varieties", Agricultural University of Athens, April 2020.
- 2019** Invited Speaker : "*Rhizobia as key partners for an eco-friendly agriculture*" Research Institute of Horticulture, July 2019, Skierniewice, Poland.
- 2016** Invited Speaker : "Rhizobium-legume symbiosis for sustainable agriculture" στα πλαίσια Ημερίδας με θέμα : "Legumes: for a more sustainable cropping system and

improved diet». April 2016, Agricultural University of Athens.

2013: Invited Speaker : “Redefinition Project 2013”, May 2013, Agricultural University of Athens.

2011: Invited Speaker : 4th Hellenic Initiative Mikrobiokosmos, Ionnina, October 2011.

ORGANIZER OF INTERNATIONAL AND NATIONAL CONFERENCES/MEETINGS

- 2021:** Member of the Scientific Committee of the 9th Hellenic Initiative Mikrobiokosmos, Athens, Greece.
- 2019 :** Member of the Scientific Committee of the 8th Hellenic Initiative Mikrobiokosmos, Patras, Greece.
- 2016:** Member of the Scientific Committee of the 7th Hellenic Initiative Mikrobiokosmos, Athens 2017, Greece.
- 2012-2014** Member of the Organizing Committee of the XVI International - CONGRESS on Molecular Plant-Microbe Interactions, July 6–10, 2014 in Rhodes Island, Greece
- 2012:** Member of the Organizing Committee of the 5th Hellenic Initiative Mikrobiokosmos, Athens 2012, Greece.
- 2012:** Member of the Organizing Committee of the 2nd Hellenic Conference in Agricultural Biotechnology, Athens 2012, Greece.
- 2012:** Member of the Organizing Committee for the 25th Anniversary of the Erasmus Student Network. Agricultural University of Athens, Greece.
- 2004:** Member of the Organizing Committee of the meeting of the: “PHYTOHEALTH”: "Improving health through dietary phytoestrogens: a pan-European Network on Consumers.' Issues and opportunities for producers", European Union, 5th F.P. 27-30 October , Heraklion, Crete, Greece.
- 1998:** Member of the Organizing Committee of the 7th Hellenic Symposium in Plant Genetics and Crop Improvement. 21-23 October , Heraklion, Crete, Greece.

LANGUAGES

Greek (native language) and English (Level: Proficiency).

PUBLICATIONS

Publications in International scientific refereed journals indexed by Scopus

1. Talianidis I., **Tampakaki A.**, Toursounova J. and V. Zannis (1995). Complex interactions between SP1 bound to multiple distal regulatory sites and HNF-4 bound to the proximal promoter lead to transcriptional activation of liver-specific human *apoCIII* gene. *Biochemistry*, 34: 10298-10309. doi: 10.1021/bi00032a025.
2. **Tampakaki A.** and Panopoulos NJ. 2000. Elicitation of Hypersensitive Cell Death by Extracellularly Targeted HrpZ_{P_{sph}} Produced *in planta*. *Mol. Plant-Microb. Inter.* 13(12):1366-1374.
3. Lee J, Klusener B, Tsiamis G, Stevens C, Neyt C, **Tampakaki A**, Panopoulos NJ, Noller J, Weiler E, Cornelis G, Mansfield J, and Nurnberger T. 2001. HrpZ_{P_{sph}} from the plant pathogen *Pseudomonas syringae* pv. phaseolicola binds to lipid bilayers and forms an ion-conducting pore *in vitro*. *Proc. Natl. Acad. Sci.* 98(1):289-294.
4. Fadouloglou VE, **Tampakaki AP**, Panopoulos NJ. and Kokkinidis M. 2001. Structural studies of the Hrp secretion system: expression, purification, crystallization and preliminary X-ray analysis of the C-terminal domain of the HrcQ_B protein from *Pseudomonas syringae* pv. phaseolicola. *Acta Crystallogr. D Biol. Crystallogr.* 57:1689-1691.
5. **Tampakaki AP**, Bastaki M, Mansfield J, and Panopoulos NJ. 2002. Molecular determinants required for the avirulence function of AvrPphB in bean and other plants. *Mol. Plant Microb. Inter.* 15(3): 292-300.
6. Pozidis C, Chalkiadaki A, Gomez-Serrano A, Stahlberg H, Brown I, **Tampakaki AP**, Lustig A, Sianidis G, Politou AS, Engel A, Panopoulos NJ, Mansfield J, Pugsley AP, Karamanou S and Economou A. 2003. Type III protein translocase: HrcN is a peripheral membrane ATPase that is activated by oligomerization. *J. Biol. Chem.* 278(28): 25816-24.
7. Fadouloglou VE, **Tampakaki AP**,* Glykos NM, Bastaki MN, Hadden JM, Phillips SE, Panopoulos NJ* and Kokkinidis M* 2004. Structure of HrcQ_B-C, a conserved component of the bacterial type III secretion systems. *Proc. Natl. Acad. Sci.*, 101(1):70-75. *: **ισή συμμετοχή-co-corresponding author**
8. **Tampakaki AP**, Fadouloglou VE, Gazi AD, Panopoulos NJ and Kokkinidis M. 2004. Conserved features of type III secretion. *Cell Microbiol.* 6(9): 805-816.
9. Deziel E, Gopalan S, **Tampakaki AP**, Lepine F, Padfield KE, Saucier M, Xiao G, and Rahme LG. 2005. The contribution of MvfR to *Pseudomonas aeruginosa*

- pathogenesis and quorum sensing circuitry regulation: multiple Quorum sensing-regulated genes are modulated without affecting *lasRI*, *rhII* or the production of N-acyl-L-homoserine lactones. *Mol. Microbiol.*, 55(4):998-1014.
10. Xiao G, Deziel E, He J, Lepine F, Lesic B, Castonguay MH, Milot S, **Tampakaki AP**, Stachel SE, and Rahme LG. 2006. MvfR, a key *Pseudomonas aeruginosa* pathogenicity LTTR-class regulatory protein, has dual ligands. *Mol. Microbiol.* 62(6):1689–1699).
 11. **Tampakaki A**, Hatziloukas E. and Panopoulos NJ. 2009. Bacteria: Plant Pathogenic. *Encyclopedia of Microbiology*. Third Edition, Elsevier, 4:655-677. Doi: 10.1016/B978-012373944-5.00346-1.
 12. **Tampakaki AP**, Skandalis N, Bastaki MN, Gazi AD, Sarris PF, Charova SN, Kokkinidis M, and Panopoulos NJ. 2010. Playing the “Harp”: Evolution of our understanding of *hrp/hrc* genes. *Ann. Rev. Phytopathol.* 48:347–370.
 13. Pavli OI, Kelaidi GI, **Tampakaki AP*** and Skaracis GN. 2011. The *hrpZ* Gene of *Pseudomonas syringae* pv. phaseolicola enhances resistance to rhizomania disease in transgenic *Nicotiana benthamiana* and sugar beet. *PLOS One* 6(3):e17306. *corresponding author.
 14. Dimou M, Venieraki A, Liakopoulos G, Kouri ED, **Tampakaki A**, and Katinakis P. 2011. Gene expression and biochemical characterization of *Azotobacter vinelandii* cyclophilins and protein interaction studies of the cytoplasmic isoform with *dnaK* and *lpxH*. *J Mol Microbiol Biotechnol.* 20(3):176-90.
 15. Fotiadis C, Dimou M, Georgakopoulos D, Katinakis P, **Tampakaki AP*** 2012. Functional characterization of NopT1 and NopT2, two type III effectors of *Bradyrhizobium japonicum*. *FEMS Microbiology Letters* 327, 66-77, *corresponding author.
 16. Pavli OI, **Tampakaki AP**, Skaracis GN. 2012. High Level Resistance against rhizomania disease by simultaneously integrating two distinct defense mechanisms. *PLoS One.* 7(12):e51414.
 17. Kremmydas GF, **Tampakaki AP**, Georgakopoulos DG. 2013. Characterization of the biocontrol activity of *Pseudomonas fluorescens* strain X reveals novel genes regulated by glucose. *PLoS One* 8(4):e61808.
 18. Venieraki A, Dimou M, Vezyri E, Vamvakas A, Katinaki PA, Chatzipavlidis I, **Tampakaki A**, Katinakis P. 2014. The nitrogen-fixation island insertion site is conserved in diazotrophic *Pseudomonas stutzeri* and *Pseudomonas* sp. isolated from distal and close geographical regions. *PLoS One.* 9(9):e105837.
 19. **Tampakaki AP**. 2014. Commonalities and differences of T3SS in plant pathogenic and symbiotic bacteria. *Front. Plant Science*, 5:114.
 20. Balomenos AD, Tsakanikas P, Aspidou A, **Tampakaki AP**, Koutsoumanis KP, Manolakos ES. 2017. Image analysis driven single-cell analytics for systems microbiology. *BMC Systems Biology*, 11:43, doi: 10.1186/s12918-017-0399-z.
 21. Kontopoulou CK, Liasis E, Iannetta P, **Tampakaki A**, Savvas D. 2017. Impact of rhizobial inoculation and reduced N supply on biomass production and

- biological N₂-fixation in common bean grown hydroponically. *J Sci Food Agr* 97:4353-4361, doi: 10.1002/jsfa.8202.
22. **Tampakaki A***, Fotiadis C, Ntatsi G, Savvas D. 2017. Phylogenetic multilocus sequence analysis of indigenous slow-growing rhizobia nodulating cowpea (*Vigna unguiculata* L.) in Greece. *Syst. Appl Microbiol* 97:4314-4325, doi: 10.1016/j.syapm.2017.01.001. *corresponding author.
 23. **Tampakaki A***, Fotiadis C, Ntatsi G, Savvas D. 2017. A novel symbiovar (aegeanense) of the genus *Ensifer* nodulates *Vigna unguiculata*. *J Sci Food Agr* 97:4314-4325, doi: 10.1002/jsfa.8281. *corresponding author.
 24. Savvas D, Ntatsi G, Vlachou M, Vrontani C, Rizopoulou E, Fotiadis C, Ropokis A, **A. Tampakaki**. 2018. Impact of different rhizobial strains and reduced nitrogen supply on growth, yield and nutrient uptake in cowpea grown hydroponically. *Acta Horticulturae* 1227:417-424. doi: 10.17660/ActaHortic.2018.1227.52
 25. Karavidas I, Yfantopoulos D, Ntatsi G., Ntanasi T., Dardas I., **Tampakaki A.**, and D. Savvas. 2019. Comparison of soil-N availability in a field cultivated with legume or non-legume plants during the winter in a Mediterranean environment. *Acta Horticulturae*, 1253, pp. 191-197. doi: 10.17660/ActaHortic.2019.1253.26
 26. Karampoula F, Doulgeraki AI, Fotiadis C, **Tampakaki A**, Nychas GE1. 2019. Monitoring biofilm formation and microbial interactions that may occur during a *Salmonella* contamination incident across the network of a water bottling plant. *Microorganisms*. 7(8). pii: E236. doi: 10.3390/microorganisms7080236.
 27. Gatsios A, Ntatsi G, Celi L, Said D, **Tampakaki A**, Giannakou I, and Savvas D. 2019. Nitrogen nutrition optimization in organic greenhouse tomato through the use of legume plants as green manure or intercrops. *Agronomy* 9(11), 766. doi: 10.3390/agronomy9110766.
 28. Kalozoumis P, Ntatsi G, **Tampakaki A**, Savvas D. 2020. Impact of grafting and different promoting growth rhizobacteria strains on the performance of tomato plants grown hydroponically under combined drought and nitrogen stress. *Acta Horticulturae*, 1273, pp. 153-159. doi: 10.17660/ActaHortic.2020.1273.21.
 29. Gatsios A., Ntatsi G., **Tampakaki A.**, Savvas D. 2020. Assessing the possibility to use legume plants as cover crops or intercrops in organic tomato production to optimize NUE. *Acta Horticulturae* 1286, 83-90. doi: 10.17660/ActaHortic.2020.1286.12
 30. Ntatsi, G., Karavidas, I., Giannikos, G., Tampakaki, A. and Savvas, D. 2020. Effect of inoculation with rhizobia and reduced water supply in yield and biological nitrogen fixing activity of cowpea. *Acta Hortic.* 1296, 775-782, doi: 10.17660/ActaHortic.2020.1296.98.
 31. Karavidas I, Ntatsi G, Ntanasi T, Vlachos I, **Tampakaki A**, Iannetta P, Savvas D. 2020. Comparative assessment of different crop rotation schemes for organic common bean production. *Agronomy*, 10, 1269. doi:10.3390/agronomy10091269.

32. Efstathiadou E, Savvas D, **Tampakaki A***. 2020. Genetic diversity and phylogeny of indigenous rhizobia nodulating faba bean (*Vicia faba* L.) in Greece. Syst. Appl. Microbiol. 43(6):126149. doi: 10.1016/j.syapm.2020.126149. *corresponding author.
33. Karavidas I., Ntanasi T., Vlachos I., **Tampakaki A.** Iannetta P. Savvas D. 2021. Evaluation of different crop rotation schemes for organic common bean production under mild-winter climatic conditions. Acta Horticulturae, 1320, doi: 10.17660/ActaHortic.2021.1320.14.
34. Kalozoumis P, Aliferis K, Marakis G, Simou E, **Tampakaki A**, Karapanos I, Ntatsi G, Savvas D. 2021. Impact of PGPR inoculation and grafting on tolerance of tomato to combined water and nutrient deficit assessed via metabolomics analysis. Frontiers in Plant Science 12:670236. doi: 10.3389/fpls.2021.670236.
35. Young J. P. W., Moeskjær S., Afonin A, Rahi P., Maluk M., James E.K., Cavassim M., Rashid M., Aserse A., Perry B. J., Wang E.T., Velázquez E., Andronov E.E, **Tampakaki A.** et al 2021. Defining the *Rhizobium leguminosarum* species complex. Genes, 12(1), 111. doi: 10.3390/genes12010111.
36. Gatsios A., Ntatsi, G., Celi, L., Said-Pullicino D., **Tampakaki A.**, Savvas D. 2021. Impact of legumes as a pre-crop on nitrogen nutrition and yield in organic greenhouse tomato. Plants, 10(3), 468. doi: 10.3390/plants10030468.
37. Efstathiadou E, Ntatsi G, Savvas D, **Tampakaki A***. 2021. Genetic characterization at the species and symbiovar level of indigenous rhizobial isolates nodulating *Phaseolus vulgaris* in Greece. Scientific Reports 11(1):8674. doi: 10.1038/s41598-021-88051-8. *corresponding author
38. Gatsios A, Ntatsi G, Celi L, Pullicino DS, **Tampakaki A**, Savvas D. 2021. Legume-Based Mobile Green Manure Can Increase Soil Nitrogen Availability and Yield of Organic Greenhouse Tomatoes. Plants 2021, 10(11), 2419, doi:10.3390/plants10112419.

Articles/Chapters in Books

Anastasia P. Tampakaki, Ina Alsina, Georgia Ntatsi, Laila Dubova, Christos T. Fotiadis, Vilhelmine Steinberga, Dimitrios Savvas, Guilhermina Marques. 2014. Working with rhizobia, Chapter 2 in *Working with microbial symbioses of legumes: Handbook of protocols*. Editors: Guilhermina Marque, **Anastasia P. Tampakaki**, Ina Alsina. FP7 Research Project n° 613781: Enhancing of legumes growing in Europe through sustainable cropping for protein supply for food and feed.

Vezyri E, Venieraki A, Dimou M, Chatzipavlidis I, **Tampakaki A**, Katinakis P. (2013) Phylogenetic Analysis of *Azospirillum* Species Isolated from the

Rhizosphere of Field-Grown Wheat Based on Genetic and Phenotypic Features, in *Molecular Microbial Ecology of the Rhizosphere: Volume 1 & 2* (ed F. J. de Bruijn), John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9781118297674.ch19

Sarris PF, Trantas EA, Skandalis N, **Tampakaki AP**, Kapanidou M., Kokkinidis M. and Panopoulos NJ. 2011. Phytobacterial Type VI Secretion System: Gene Distribution, Phylogeny, Structure and Biological Functions. 53-84 pp. In: *Plant Pathology*, C.J. R. Cumagan (ed). InTech - Open Access Publisher. ISBN: 978-953-307-933-2. Croatia.

Tampakaki A. Hatziloukas E. and Panopoulos NJ. 2009. Bacteria: Plant Pathogenic. *Encyclopedia of Microbiology*. Third Edition, Elsevier, 4:655-677.

Tabakaki N., Hatziloukas E., Grimm C., and N.J. Panopoulos (1997). Expression of the *Pseudomonas syringae* pv. phaseolicola *hrpZ* gene in transgenic tobacco and *Saccharomyces cerevisiae*, p. 392-396. In: Rudolph, K., T.J. Burr, J.W. Mansfield, D. Stead, A. Vivian, and J. von Kietzell (eds). *Pseudomonas syringae* and related pathogens. Kluwer Academic Publishers, Dordrecht, The Netherlands.

Conference abstracts/proceedings

-99 abstracts and 9 publications in Proceedings of National and International Conferences.

AREAS OF RESEARCH INTERESTS

- Molecular and biochemical mechanisms underlying the interactions of plant pathogenic and symbiotic bacteria with an emphasis on the type III secretion system of bacteria
- Molecular mechanisms underlying the interactions of human pathogens with plants
- Molecular identification and phylogenetic analysis of beneficial plant-associated microbes (rhizobia and plant-growth promoting bacteria)
- Microbial genomics and metagenomics of plant microbiomes.
- Development of bioinoculants for disease control and crop improvement.
- Development of diagnostic tools for microbial identification.