

Curriculum vitae

Kalliope K. Papadopoulou



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Education

1986-1990: BSc in Biology, Aristotelian University of Thessaloniki, Greece.

1992-1996: Ph.D. in Plant Molecular Biology, Agricultural University of Athens,

Dept. of Agricultural Biology & Biotechnology, Lab. of Molecular Biology, Athens, Greece.
"Structure and Expression of nodulin genes in soybean and *Phaseolus*".

Appointments

05/2013-today Associate Professor, Department of Biochemistry and Biotechnology,
University of Thessaly

10/2005-04/2013 Assistant Professor, Department of Biochemistry and Biotechnology,
University of Thessaly

12/2000- 9/2005: Associate Researcher National Agricultural Research Foundation, Institute of
Kalamata, Kalamata, Greece

09/1999-11/2000: Research associate, National Agricultural Research Foundation, Institute of
Kalamata, Kalamata, Greece

06/1997-08/1999: Sainsbury Laboratory, John Innes Centre, Norwich, U.K. Post-doctoral
researcher (Marie-Curie Fellowship).

01/1996-05/1997: National Agricultural Research Foundation, Institute of Kalamata, Kalamata,
Greece. Post-doctoral researcher.

Research Interests and Activities:

- Plant secondary metabolism, with emphasis on the biosynthesis and functional role of triterpenes; Manipulation of synthesis in legume model and crop plants; genomic modification Expression in heterologous systems; Effect of triterpenes on plant physiology and defence; biological activity assays of crude extracts and purified molecules.
- Molecular plant-microbe interactions with emphasis on endophytic fungi, symbiotic relationships; Tri-partite interactions Multi-trophic interactions; Phytopathogenic fungi; Biostimulants
- Microbial community structures and functions in soil

Panels and Committees

- Director of the MSc Programme “Applications of molecular biology” (<http://appmolbio.bio.uth.gr>) (2016 onwards)
- Scientific Coordinator of the OMIC-ENGINE Research Infrastructure on Synthetic Biology in the Agrofood Sector (Greek RI Roadmap) (2017 onwards)
- Member of the Advisory Editors Board of New Phytologist (2017 onwards)
- Review Editor of Frontiers in Crop Biology and Sustainability (2019 onwards)
- Member of the Editorial Board of Annals of Applied Biology (2011-2015)
- Management committee member for the COST Action FA1103 Endophytes – *Financial Rapporteur* (2012-2015)
- Management committee member for the COST Action FA 1405 ‘Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production’- *Member of the Committee of the Short Term Scientific Mission* (2015-2019)
- Management Committee for the COST Action CA16110 Control of Human Pathogenic Micro-organisms in Plant Production Systems- *Member of the Committee of the Short Term Scientific Mission* (2016 onwards)
- Organizing committee of the 11th International Conference, TERPNET, Greece, 2013.
- Organizing committee of XVI International Congress on Molecular Plant-Microbe Interactions, 2014.
- Scientific committee of the 28th Conference of the Hellenic Society of Horticulture, Thessaloniki 2017
- Organizing and Scientific committee of the 69th Annual Conference of the Hellenic Society for Biochemistry and Molecular Biology (HSBMB), Larissa, 2018
- Organizing and Scientific committee of the final meeting Conference on Phytobiomes and Plant Health: from basics to application, Thessaloniki 2019

Other scientific activities

- Guest Associate Editor in Plant Microbe Interactions of Frontiers in Plant Science (2019)
- Referee for scientific journals, including New Phytologist, Phytochemistry, Plant Journal, Molecular Plant-Microbe Interactions, Physiological and Molecular Plant Pathology, European Journal of Plant Pathology, Soil Biology and Biochemistry, Environmental Microbiology, Plant Molecular Biology
- Member of the Phytochemical Society of Europe, International Society for Molecular Plant-Microbe Interactions, the Hellenic Society for Biochemistry and Molecular Biology

Teaching – Supervision

- Plant Physiology; Molecular and Developmental Plant Biology; Plant Biotechnology (BSc level)
- Plant Genomics; Genetically Modified Organisms (Plants); Introduction to Systems Biology (MSc level)
- Supervisor of in total 6 PhD students (4 completed):

Ioanna Mirtziou, *thesis title: The role of NO in the enzymatic antioxidant mechanism in Medicago truncatula*;

Dimitra Katsarou, *thesis title: Biosynthesis and metabolic regulation of glucosinolates in Eruca sativa*; Aphrodite Krokida, *thesis title: Genome organization and functional analysis of biosynthetic genes and metabolic diversity of triterpenes in legumes*;

Vasiliki Skiada, *thesis title: Colonization of legumes by an endophytic Fusarium solani strain K. Early-stage molecular signaling and sub-cellular responses*;

Marianna Avramidou, *thesis title: Mode of action of endophytic fungi in the root system of legume plants that are involved in the induction of immunity and plant growth*;

Maria Feka, *thesis title: Beneficial microbes and natural metabolites as novel tools in enhancing stress resilience in plants*.

- Member of the Advisory Committee in 6 PhD students
- Member of the Examining Committee of 7 PhD students
 - External examiner of the PhD defence of Aldo Ricardo Almeida Robles, title: *Occurrence and biogenesis of seco-triterpenoids: A focus on the biosynthetic pathway of α -onocerin in Ononis spinose* at the University of Copenhagen, Plant and Environmental Sciences, Section of Plant Biochemistry
- Supervision of 8 Post-doctoral Fellows
- Supervision of >25 undergraduate students and >15 postgraduate students.

Funding

List of funded projects as Coordinator and Partner

Coordinator in projects funded by the European Commission, National Funding Bodies (GSRT, IKY) and other international funding

- PRIMA, Section 2 (2019-2022) Title: *INTOMED. Innovative tools to combat crop pests in the Mediterranean*, (own budget, 160.000€) Funding: GSRT, Coordinator
- Programme National Emblematic Actions. (2019-2022) Title: *Roads of Olive* (own budget: 120.000€) Funding: Public Investments Program (PIP) (GSRT), Coordinator for UTH
- Marie Curie - IF-H2020 (2018-2020) Title: *RNASTIP- RNA sprays as a tool for crop improvement and protection* (160.000€). (Fellow: Dr A. Dalakouras) Funding: EU (Horizon2020)
- *State Scholarship Foundation Greece, Postdoc Fellowships (2017-2018), Symbioses in legume roots: Does the symbiosis with rhizobia affect the symbiosis with mycorrhizal fungi?* (Fellow: Dr D. Tsikou)
- *State Scholarship Foundation of Greece, Call PhD student fellowships (2018-2021). Title Mode of action of endophytic fungi in the root system of legume plants that are involved in the induction of immunity and plant growth* Funding Body: State Scholarship Foundation of Greece, Total Funding: 29.50000 €. (Benefited Student: M. Avramidou)
- Programme RESEARCH-CREATE-INNOVATE (2018-2020). Title: *Mixed microbial inocula for vegetable production in the Western Peloponnese – application to soil, propagating material, hydroponics, enhanced growth substrates*. (own budget: 76.000€), Funding: GSRT, Coordinator for UTH.
- FP7 European Projects KBBE (2014-2017) Title: *TRIFORC: Triterpenes For Commercialization, A pipeline for the discovery, sustainable production and commercial utilization of known and*

novel high-value triterpenes with new or superior biological activities, (own budget:400.000€), Funding:EU, Coordinator for UTH

- Programme "Support of SMEs" (2012-2015), Title: *Endogenous arbuscular mycorrhizal isolates and production of novel products for soil inoculation* (own budget:37.000€), Funding: GSRT/EU/ NSRF, Coordinator for UTH
- "Support of Postdoctoral Researchers" (2011-2013), Title: *FRUIT-OMICS Physiological, biochemical and molecular characterization of nitric oxide and ozone application in the postharvest physiology of kiwifruits*", (120.0000 €) Funding: Ministry of Education/EU/ NSRF
- Programme "HERAKLEITOS" (2010-2013) Title: *Genome organization and functional analysis of biosynthetic genes and metabolic diversity of triterpenoids in legumes*, Funding: Greek Ministry of Education (co-funded by EU)
- Programme DESMI, (2007-2009) Title: *BIOFUME, Glucosinolate content in Brassicaceae and their usage as biofumigants*, Funding: Research Promoting Foundation, Cyprus, Coordinator for UTH
- Marie Curie Reintegration Grant (2007-2010) Title: *The effects of agronomic practices conducive to organic agriculture on the diversity & function of arbuscular mycorrhizal fungi*, Funding: EU-FP7
- Programme Quality of Life and Management of Living Resources, FP5 (2002 -2005) Title: *Recycling Horticultural Wastes to Produce Pathogen Suppressant Composts for Sustainable Vegetable Crop Production*. Funding:EU
- Programme Joint Research Programme (2000-2002) Title: *Manipulation of saponin content in legumes and effects on disease resistance*. Funding: GGSRT, Hellenic Ministry of Development
- Programme Marie Curie Fellowships Return Grant, Quality of Life, 5th Framework (2002-2001), Title: *Pathogen control in tomato crops by indigenous arbuscular mycorrhizal fungi and the effect of the saponin, a-tomatine on the symbiosis*. Funding:EU

Partner in projects as listed below:

- Programme National Emblematic Actions. (2019-2022) Title: Roads of Vine (own budget: 120.000€) Funding: Public Investments Program (PIP) (GSRT)
- Research Infrastructure project (2017-2019), *The research infrastructure of Synthetic Biology in Agro-Nutrition*. Funding: Ministry of Development, Finance and Tourism.
- Marie Curie - IF-H2020 (2017-2019) *Exploring microbial networking in pesticides biodegradation: novel inocula and biocatalysts for biodepuration of agro-industrial effluents (EMIGRATE)* Funding:EU
- Postdoctoral Fellowships by Stavros Niarchos Foundation (operated by the Univ. Thessaly) (2018-2020), Study of the Microbial Symbiome of plants and insects as a Source Of Novel pesticide catalytic enzymes (MISSION). (Fellow: Dr E. Papadopoulou)
- THALIS project (2012-2015), *Contribution of Mycorrhizae to the sustainability of marginal Mediterranean ecosystems – development of mycorrhizal inocula*. Funding: Ministry of Education
- THALIS project (2012-2015), *Ozone application for improving post harvest handling of edible horticultural products*. Funding: Ministry of Education
- Marie Curie-IRG-FP7 (2007-2010), *The effects of agronomic practices conducive to organic agriculture on the diversity and function of arbuscular mycorrhizal fungi*", Funding:EU

INDUSTRIAL PROJECTS

- *Investigation of the population dynamics of soil-borne fungal pathogens via q-PCR.* Funding body: Agrochemical Company. Total Funding: 3700 €, Duration: 1.1.2017-31.12.2017.
- *Investigation of the fungal infestations of trees in the park of the Stavros Niarchos Foundation using molecular diagnostics.* Funding Body: Stavros Niarchos Foundation. Total Funding: 15000 €, Duration: 1.9.2017-31.12.2107.

List of publications (chronological)

1. **Papadopoulou K**, Roussis A, Kuin H, Katinakis P (1995) Expression pattern of uricase II gene in Phaseolus. *Experientia*, 51: 90-94.
2. Roussis, van der Sanders K, **Papadopoulou K**, Drenth J, Franssen H, Bisseling T, Katinakis P (1995) Characterization of the soybean gene pGmENOD40-2. *Journal of Experimental Botany*, 46:719-724.
3. **Papadopoulou K.**, Roussis A., & P. Katinakis (1996) Phaseolus ENOD40 is involved in symbiotic and non-symbiotic organogenetic processes: Expression during nodule and lateral root development. *Plant Molecular Biology*, 30 :403-417.
4. Papadelli M, Roussis A, **Papadopoulou K**, Venieraki A, Chatzipavlidis I, Katinakis P, Balis K (1996) Biochemical and molecular characterization of an Azotobacter vinelandii strain with respect to its ability to grow and fix nitrogen in OMW. *International Biodeterioration & Biodegradation*, 38:179-181.
5. Roussis A, **Papadopoulou K**, Katinakis P (1997) NOD3, a novel late nodulin gene from soybean is expressed in the infected cells and the nodule parenchyma. *Journal of Experimental Botany*, 48:1011-1017.
6. Ehaliotis C, **Papadopoulou K***, Kotsou M, Mari I, C Balis (1999) Adaptation, population dynamics and N₂-fixation of Azotobacter vinelandii in olive-mill wastewaters during an aerobic bioremediation process. *FEMS Microbiology-Ecology*, 30: 301-311.
7. **Papadopoulou K**, Melton RE, Legget M, Daniels MJ, Osbourn AE (1999) Compromised disease resistance in saponin-deficient plants. *Proceedings of the National Academy of Science*, 96: 12923-12928
8. Haralampidis K, Bryan G, Qi X, **Papadopoulou K**, Bakht S, Melton R, Osbourn AE* (2001) A new class of oxidosqualene cyclases directs synthesis of antimicrobial phytoprotectants in monocots. *Proceedings of the National Academy of Science*, 98: 13431-13436.
9. Zervakis G, Venturella J, **Papadopoulou K** (2001) Genetic polymorphism and taxonomic infrastructure of the Pleuorus eryngii species-complex as determined by RAPD analysis, isozyme profiles and ecomorphological characters. *Microbiology UK*, 147:3183-3194.
10. **Papadopoulou K***, Ehaliotis C, Tourna M, Kastanis P, Karydis I, Zervakis G (2002) Genetic relatedness among dioecious Ficus carica L. cultivars by random amplified polymorphic DNA analysis and evaluation of agronomic and morphological characters. *Genetica*, 114:183-94.
11. Iturbe-Ormaetxe I, Haralampidis K, **Papadopoulou K**, Osbourn AE (2003) Molecular cloning and characterization of triterpene synthases from the model legume species Medicago truncatula and Lotus japonicus. *Plant Molecular Biology*, 51: 731-743.

12. Ntougias S, Zervakis GI, Kavroulakis N, Ehaliotis C, **Papadopoulou K*** (2004) Bacterial diversity in spent mushroom compost assessed by amplified rDNA restriction analysis and sequencing of cultivated isolates. *Systematic and Applied Microbiology*, 27:746-754
13. Kavroulakis N, Ehaliotis C, Ntougias S, Zervakis G, **Papadopoulou K*** (2005) Local and systemic resistance against fungal pathogens of tomato plants elicited by a compost derived from agricultural residues. *Physiological and Molecular Plant Pathology*, 66: 163-174.
14. Ntougias S, Ehaliotis C, **Papadopoulou K**, Zervakis G (2006) Application of respiration and FDA hydrolysis measurements for estimating microbial activity during composting processes. *Biology and Fertility of Soils* 42:330-337
15. Ntougias S, Zervakis G, Kavroulakis N, Ehaliotis C, **Papadopoulou K**. (2006) Ecophysiology and molecular phylogeny of bacteria isolated from alkaline two-phase olive mill wastes. *Research in Microbiology*, 157: 376-385
16. Kavroulakis N, **Papadopoulou K**, Ntougias S, Zervakis G, Ehaliotis C (2006) Cytological and other aspects of pathogenesis-related gene expression in tomato plants grown on a suppressive compost. *Annals of Botany*, 98: 555-564
17. Kavroulakis N, Ntougias S, Zervakis G, Ehaliotis C, Haralampidis K, **Papadopoulou KK*** (2007) Role of ethylene in the protection of tomato plants against fungal pathogens conferred by an endophytic *Fusarium solani* strain. *Journal of Experimental Botany*, 58: 3853-3864
18. Ntougias S., **Papadopoulou KK**, Zervakis GI, Kavroulakis N., Ehaliotis C (2008) Suppression of soil-borne pathogens of tomato by composts derived from agro-industrial wastes abundant in Mediterranean regions, *Biology and Fertility of Soils*, 44:1081-1090
19. Mylona P, Owatworakit A, **Papadopoulou K**, Jenner H, Qin B, Findlay K, Hill L, Qi X, Bakht S, Melton S, Osbourn A (2008) Sad3 and Sad4 are required for avenacin A-1 biosynthesis and root development in oat. *Plant Cell* ,20: 210-212
20. Omirou M, Papastylianou I, Iori R, Papastephanou C, **Papadopoulou KK**, Ehaliotis C, Karpouzas DG (2009) Microwave-assisted extraction of glucosinolates from *Eruca sativa* seeds and soil: comparison with existing methods, *Phytochemical analysis*, 20:214-220.
21. Mugford ST, Qi X, Bakht S, Hill L, Wegel E, Hughes RK, **Papadopoulou K**, Melton RI, Goss RJM, Osbourn A (2009) A Serine Carboxypeptidase-Like Acyltransferase Is Required for Synthesis of Antimicrobial Compounds and Disease Resistance in Oats, *Plant Cell*, 21: 2473-2484
22. Ipsilantis I, Karpouzas DG, Papadopoulou KK, Ehaliotis C (2009) Effects of soil application of olive mill wastewaters on the structure and function of the community of arbuscular mycorrhizal fungi. *Soil Biology & Biochemistry*, 41:2466-2476
23. Karpouzas DG, Rousidou C, **Papadopoulou KK**, Bekris F, Zervakis G, Singh BK, Ehaliotis C (2009). Effect of continuous olive mill wastewater applications, in the presence and absence of N fertilization, on the structure of rhizosphere soil fungal communities. *FEMS Microbiology Ecology*, 70:388-401
24. Omirou MD, **Papadopoulou KK**, Papastylianou I, Constantinou M, Karpouzas DG, Passam H, Ehaliotis C (2009) Impact of nitrogen and sulfur fertilization on the composition of glucosinolates in relation to sulfur assimilation in different plant organs of broccoli. *Journal of Agricultural and Food Chemistry*, 57:9408-9417
25. Karpouzas DG, Ntougias S, Iskidou E, Rousidou C, Papadopoulou KK, Zervakis G, Ehaliotis C (2010) The effects of soil application of olive mill wastewaters on functional soil bacterial communities. *Applied Soil Ecology*, 45:101-111

26. Kavroulakis N, Ntougias S, Besi MI, Katsou P, Damaskinou A, Ehaliotis C, Zervakis GI, **Papadopoulou KK*** (2010) Antagonistic bacteria of composted agro-industrial residues exhibit antibiosis against soil-borne fungal plant pathogens and protection of tomato plants from *Fusarium oxysporum* f.sp. *radicis-lycopersici*. *Plant and Soil* 333:233–247
27. Omirou M, Rousidou C, Bekris F, **Papadopoulou KK**, Ehaliotis C, Menkissoglu-Spiroudi U, Karpouzas DG (2011) The impact of biofumigation and chemical fumigation methods on the structure and function of the soil microbial community. *Microbial Ecology* 61:201–13
28. Delis C, Krokida A, Georgiou S, Peña-Rodríguez LM, Kavroulakis N, Ioannou E, Roussis V, Osbourn AE, **Papadopoulou KK*** (2011) Role of lupeol synthase in *Lotus japonicus* nodule formation, *New Phytologist* 189:335–346
29. Karpouzas DG, Karatasas A, Spiridaki E, Rousidou C, Bekris F, Omirou M, Ehaliotis C, **Papadopoulou KK*** (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
30. Omirou M, Papastefanou C, Katsarou D, Papastylianou I, Passam HC, Ehaliotis C and **Papadopoulou KK*** (2012) Relationships between nitrogen, dry matter accumulation and glucosinolates in *Eruca sativa* Mills. The applicability of the critical NO₃-N levels approach. *Plant and Soil*, 354:347–358
31. Osbourn AE, **Papadopoulou K**, Qi X, Field B, Wegel E. (2012) Finding and analysing plant secondary metabolic gene clusters (Review) *Methods in Enzymology* 517: 113–138
32. Hadar Y, **Papadopoulou K*** (2012) Suppressive composts: microbial links between abiotic environments and healthy plants (Review) *Annual Review of Phytopathology* 50:133–53
33. Ouzounidou G, **Papadopoulou KK**, Asfi M, Mirtziou I, Gaitis F (2012) Comparative study of the efficacy of different chemicals on shelf life extension of parsley stored at two temperatures *International Journal of Food Science*, 48, 1610–1617
34. Krokida A, Delis C, Geisler K, Garagkounis C, Tsikou D, Peña-Rodríguez LM, Field B, Osbourn AE, **Papadopoulou KK*** (2013) A metabolic gene cluster in *Lotus japonicus* discloses novel enzyme functions and products in triterpene biosynthesis *New Phytologist* 200: 675–690.
35. Omirou M, Karpouzas DG, **Papadopoulou KK**, Ehaliotis C. (2013) The decomposition of pure and plant – derived glucosinolates in soil. *European Journal of Soil Biology* 56:49–55
36. Mosses T, Papadopoulou KK, Osbourn AE (2014) Metabolic and functional diversity of saponins, biosynthetic intermediates and semi-synthetic derivatives. *Critical Reviews in Biochemistry and Molecular Biology* DOI: 10.3109/10409238.2014.953628
37. Zografidis A, Giorgos Kapolas G, Podia V, Beri D, **Papadopoulou KK**, Milioni D, Haralampidis K (2014) Transcriptional regulation and functional involvement of the Arabidopsis pescadillo ortholog AtPES in root development. *Plant Science* 229: 53–65
38. Ouzounidou G, Skiada V, **Papadopoulou KK**, Stamatias N, Kavvadias V, Eleftheriadis E, Gaitis F (2015) Effects of soil pH and arbuscular mycorrhiza (AM) inoculation on growth and chemical composition of chia (*Salvia hispanica* L.) leaves. *Brazilian Journal of Botany* 38: 487–495
39. Tanou G, Minas IS, Karagiannis E, Tsikou D, Audebert S, **Papadopoulou KK**, Molassiotis A (2015) The impact of sodium nitroprusside and ozone in kiwifruit ripening physiology: a combined gene and protein expression profiling approach. *Annals of Botany* 116: 649–662
40. Aydi Ben Abdallah R, Nefzi A, Jabnoun-Khiareddine H, Messaoud C, Stedel C, **Papadopoulou KK**, Mokni-Tlili S, Daami-Remadi M. (2016) A putative endophytic *Bacillus cereus* str. S42 from *Nicotiana glauca* for biocontrol of *Fusarium* wilt disease in tomato and

- gas chromatography-mass spectrometry analysis of its chloroform extract. Archives of Phytopathology and Plant Protection, 49: 343–361
41. Papazlatani C, Rousidou C, Katsoula A, Kolyvas M, Genitsaris S, **Papadopoulou KK**, Karpouzas DG. (2016) Assessment of the impact of the fumigant dimethyl disulfide on the dynamics of major fungal plant pathogens in greenhouse soils. Eur J Plant Pathol DOI 10.1007/s10658-016-0926-6
 42. Georgatza D, Gorgogietas VA, Kylandri P, Charalambous MCh, **Papadopoulou KK**, Hayes JM, Psarra AMG. (2016) The triterpene echinocystic acid and its 3-O-glucoside derivative are revealed as potent and selective glucocorticoid receptor agonists. The International Journal of Biochemistry & Cell Biology 79: 277–287
 43. Delis C, Krokida A, Tomatsidou A, Tsikou D, Beta RAA, Tsioumpekou M, Moustaka J, Stravodimos G, Leonidas DD, Balatsos NAA, **Papadopoulou KK*** (2016) AtHESPERIN: a novel regulator of circadian rhythms with poly(A)-degrading activity in plants. RNA Biology, 13:1, 68-89.
 44. Katsarou D, Omirou M, Liadaki K, Tsikou D, Delis C, Garagounis C, Krokida A, Zambounis A, **Papadopoulou KK*** (2016) Glucosinolate biosynthesis in *Eruca sativa*. Plant Physiology and Biochemistry, <http://dx.doi.org/10.1016/j.plaphy.2016.10.024>
 45. Castella C, Mirtziou I, Seassau A, Boscari A, Montrichard F, **Papadopoulou K**, Rouhier N, Puppo A, Brouquisse R (2017) Post-translational modifications of *Medicago truncatula* glutathione peroxidase 1 induced by nitric oxide. Nitric Oxide, dx.doi.org/10.1016/j.niox.2017.02.004
 46. Aydi Ben Abdallah R, Stedel C, Garagounis C, Nefzi A, Jabnoun-Khiareddine H, **Papadopoulou KK**, Daami-Remadi M (2017) Involvement of lipopeptide antibiotics and chitinase genes and induction of host defense in suppression of Fusarium wilt by endophytic *Bacillus* spp. in tomato Crop Protection 99: 45e58
 47. Kavroulakis N, Doupis G, Papadakis IE, Ehaliotis C, **Papadopoulou KK*** (2018) Tolerance of tomato plants to water stress is improved by the root endophyte *Fusarium solani* Fsk. Rhizosphere 6: 77–85
 48. Tsikou D, Ramirez EE, Psarrakou IS, Wong JE, Jensen DB, Isono E, Radutoiu S, **Papadopoulou KK*** (2018) A *Lotus japonicus* E3 ligase interacts with the Nod factor receptor 5 and positively regulates nodulation. BMC Plant Biology 18:217 <https://doi.org/10.1186/s12870-018-1425-z>
 49. Garantnakis N, Pappas ML, Varikou K, Skiada V, Broufas GD, Kavroulakis N, **Papadopoulou KK*** (2018) Tomato inoculation with the endophytic strain *Fusarium solani* K results in reduced feeding damage by the zoophytophagous predator *Nesidiocoris tenuis*. Frontiers in Ecology and Evolution <https://doi.org/10.3389/fevo.2018.00126>
 50. Malandrakis A, Daskalaki ER, Skiada V, **Papadopoulou KK**, Kavroulakis N (2018). A *Fusarium solani* endophyte vs fungicides: Compatibility in a *Fusarium oxysporum* f.sp. *radicis-lycopersici* – tomato pathosystem. Fungal Biology. doi:10.1016/j.funbio.2018.10.003
 51. Pappas ML, Liapoura M, Papantoniou D, Avramidou M, Kavroulakis N, Weinhold A, Broufas G, **Papadopoulou KK** (2018) The beneficial endophytic fungus *Fusarium solani* strain K alters tomato responses against spider mites to the benefit of the plant. Frontiers in Plant Science, <https://doi.org/10.3389/fpls.2018.01603>
 52. Fatemi F, Abdollahi MR, Mirzaie-asl A, Dastan D, Garagounis C, **Papadopoulou KK** (2018) Identification and expression profiling of rosmarinic acid biosynthetic genes from *Satureja*

- khuzistanica under carbon nanotubes and methyl jasmonate elicitation. *Plant Cell, Tissue and Organ Culture*, <https://doi.org/10.1007/s11240-018-01537-8>
53. Minas IS, Tanou G, Krokida S, Karagiannis R, Belghazi M, Vasilakakis M, **Papadopoulou KK**, Molassiotis A (2018) Ozone-induced inhibition of kiwifruit ripening is amplified by 1-methylcyclopropene and reversed by exogenous ethylene. *BMC Plant Biology* 18:358, <https://doi.org/10.1186/s12870-018-1584-y>
 54. Garagounis C, Tsikou D, Plitsi PK, Psarrakou IS, Avramidou M, Stedel C, Anagnostou M, Georgopoulou ME, **Papadopoulou KK*** (2019) Lotus Shaggy-like Kinase 1 is required to suppress nodulation in *Lotus japonicus*. *Plant Journal*, 98:228-242 <https://doi.org/10.1111/tpj.14207>
 55. Skiada V, Faccio A, Kavroulakis N, Genre A, Bonfante P, **Papadopoulou KK*** (2019) Colonization of legumes by an endophytic *Fusarium solani* strain FsK reveals common features to symbionts or pathogens, 127: 60-74. <https://doi.org/10.1016/j.fgb.2019.03.003>
 56. Dalakouras A, Wassenegger M, Dadami E, Ganopoulos I, Pappas MI, **Papadopoulou KK** (2020) Genetically modified organism-free RNA interference: Exogenous application of RNA molecules in plants. *Plant Physiology* 182, pp. 1–13.