

Short Curriculum Vitae

Zaharoula G. Kyriakopoulou

I. PERSONAL DATA

Birth date: Aug 18th , 1980
Marital status: Married, two children
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II. EDUCATION

2005-2010: Ph. D Degree, University of Thessaly, School of Health Sciences, Department of Biochemistry& Biotechnology
Thesis title: ‘Molecular identification of enteroviruses in environmental samples and study of recombination events between circulating strains’
1999–2005: BSc, Biology, School of Natural Sciences, University of Patras

III. LANGUAGE

English: First Certificate in English (1996), University of Cambridge
French: Certificat de Langue Française (1996), Université de Paris-Sorbonne

IV. ACADEMIC WORK EXPERIENCE

5/2022-today Associate Professor of Microbiology, Department of Environmental Sciences, University of Thessaly
3/2019-5/2022 Associate Professor of Microbiology, General Department, University of Thessaly
4/2018-3/2019 Associate Professor of Microbiology, Medical Laboratories department, TEI of Thessaly
1/2010- 3/2018 Research and Teaching Assistant (EDIP), University of Thessaly, School of Health Sciences, Department of Biochemistry& Biotechnology
10/2008- 12/2009 Research assistant, National Meningitis Reference Center, National School of Public Health
1/2005-12/2007 Research assistant, Pythagoras II research program.” Molecular detection of enteric viruses in clinical and environmental samples. Implications in public health

V. PUBLICATIONS

In peer-reviewed international scientific journals

Total number:51

Citations (SCOPUS): 512

h-index : 12

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1. Tsakogiannis D, Nikolaidis M, Zagouri F, Zografos E, Kottaridi C, **Kyriakopoulou Z**, Tzioga L, Markoulatos P, Amoutzias GD, Bletsas G. Mutation Profile of HPV16 L1 and L2 Genes in Different Geographic Areas. *Viruses*. 2022 Dec 31;15(1):141. doi: 10.3390/v15010141.
2. Daskou M, Dimitriou TG, Alexopoulou DS, Tsakogiannis D, Amoutzias GD, Mossialos D, **Kyriakopoulou Z**, Markoulatos P. WarmStart colorimetric RT-LAMP for the rapid, sensitive and specific detection of Enteroviruses A-D targeting the 5'UTR region. *J Appl Microbiol*. 2021 Jan;130(1):292-301. doi: 10.1111/jam.14770.
3. Zilidis C, Papagiannis D, **Kyriakopoulou Z**. Did Economic Crisis Affect Mortality Due to Infectious Diseases? Trends of Infectious Diseases Mortality in Greece Before and After Economic Crisis. *Cureus*. 2021 Feb 28;13(2):e13621. doi: 10.7759/cureus.13621. PMID: 33816020
4. Nikolaidis M, Mimouli K, **Kyriakopoulou Z**, Tsimpidis M, Tsakogiannis D, Markoulatos P, Amoutzias GD. Large-scale genomic analysis reveals recurrent patterns of intertypic recombination in human enteroviruses. *Virology*. 2019 Jan 2;526:72-80. doi: 10.1016/j.virol.2018.10.006. Epub 2018 Oct 23.
5. Tsakogiannis D, Moschonas GD, Daskou M, Stylianidou Z, **Kyriakopoulou Z**, Kottaridi C, Dimitriou TG, Gartzonika C, Markoulatos P. Polymorphic variability in the exon 19 of the RB1 gene and its flanking intronic sequences in HPV16-associated precancerous lesions in the Greek population. *J Med Microbiol*. 2018 Nov;67(11):1638-1644. doi: 10.1099/jmm.0.000843. Epub 2018 Oct 10.
6. Tsakogiannis D, Moschonas GD, Bella E, **Kyriakopoulou Z**, Amoutzias GD, Dimitriou TG, Kottaridi C, Markoulatos P. Association of p16 (CDKN2A) polymorphisms with the development of HPV16-related precancerous lesions and cervical cancer in the Greek population. *J Med Virol*. 2018 May;90(5):965-971. doi: 10.1002/jmv.24996. Epub 2017 Dec 11.
7. **Kyriakopoulou Z***, Amoutzias GD, Dimitriou TG, Tsakogiannis D, Mossialos D, Markoulatos P. Intra- and inter-serotypic recombinations in the 5' UTR-VP4 region of Echovirus 30 strains. *Arch Virol*. 2018 Feb;163(2):365-375. doi: 10.1007/s00705-017-3600-1. Epub 2017 Oct 30.
8. Moschonas GD, Tsakogiannis D, Lamprou KA, Mastora E, Dimitriou TG, **Kyriakopoulou Z**, Kottaridi C, Karakitsos P, Markoulatos P. Association of codon 72 polymorphism of p53 with the severity of cervical dysplasia, E6-T350G and HPV16 variant lineages in HPV16-infected women. *J Med Microbiol*. 2017 Aug 31. doi: 10.1099/jmm.0.000563. [Epub ahead of print] Erratum in: *J Med Microbiol*. 2017 Oct;66(10):1521
9. Fikatas A, Dimitriou TG, **Kyriakopoulou Z**, Moschonas GD, Amoutzias GD, Mossialos D, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Detection of negative and positive RNA strand of poliovirus Sabin 1 and echovirus E19 by a stem-loop reverse transcription PCR. *Lett Appl Microbiol*. 2017 Sep;65(3):234-240. doi: 10.1111/lam.12766. Epub 2017 Jul 25.
10. Tsimpidis M, Bachouris G, Mimouli K, **Kyriakopoulou Z**, Robertson DL, Markoulatos P, Amoutzias GD. T-RECs: rapid and large-scale detection of recombination events among different evolutionary lineages of viral genomes. *BMC Bioinformatics*. 2017 Jan 5;18(1):13. doi: 10.1186/s12859-016-1420-z
11. Fikatas A, Dimitriou TG, **Kyriakopoulou Z**, Tsachouridou O, Gartzonika C, Levidiotou-Stefanou S, Amoutzias GD, Markoulatos P. Serum Neutralization Assay for the Determination of Antibody Levels

- Against Non-Polio Enterovirus Strains in Central and Western Greece. *Viral Immunol.* 2016 Sep;29(7):444-50. doi: 10.1089/vim.2016.0049. Epub 2016 Jul 13.
12. Dimitriou TG, **Kyriakopoulou Z**, Tsakogiannis D, Fikatas A, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Development of a multiplex RT-PCR assay for the identification of recombination types at different genomic regions of vaccine-derived polioviruses. *Virus Genes.* 2016 Aug;52(4):453-62. doi: 10.1007/s11262-016-1333-y. Epub 2016 Apr 20.
 13. Tsakogiannis D, Bletsas M, **Kyriakopoulou Z**, Dimitriou TG, Kotsovassilis C, Panotopoulou E, Markoulatos P. Identification of rearranged sequences of HPV16 DNA in precancerous and cervical cancer cases. *Mol Cell Probes.* 2016 Feb;30(1):6-12. doi: 10.1016/j.mcp.2015.11.004. Epub 2015 Nov 26.)
 14. Tsakogiannis D, Gortsilas P, **Kyriakopoulou Z**, Ruether IG, Dimitriou TG, Orfanoudakis G, Markoulatos P. Sites of disruption within E1 and E2 genes of HPV16 and association with cervical dysplasia. *J Med Virol.* 2015 Nov;87(11):1973-80. doi: 10.1002/jmv.24256. Epub 2015 May 19.
 15. **Kyriakopoulou Z***, Bletsas M, Tsakogiannis D, Dimitriou TG, Amoutzias GD, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Molecular epidemiology and evolutionary dynamics of Echovirus 3 serotype. *Infect Genet Evol.* 2015 Jun; 32:305-12. doi: 10.1016/j.meegid.2015.03.008. Epub 2015 Mar 17.)
 16. **Kyriakopoulou Z**, Pliaka V, Amoutzias GD, Markoulatos P. Recombination among human non-polio enteroviruses: implications for epidemiology and evolution. *Virus Genes.* 2015 Apr;50(2):177-88. doi: 10.1007/s11262-014-1152-y. Epub 2014 Dec 24.)
 17. Tsakogiannis D, Diamantidou V, Toska E, **Kyriakopoulou Z**, Dimitriou TG, Ruether IG, Gortsilas P, Markoulatos P. Multiplex PCR assay for the rapid identification of human papillomavirus genotypes 16, 18, 45, 35, 66, 33, 51, 58, and 31 in clinical samples. *Arch Virol.* 2014 Oct 25. [Epub ahead of print] (*IF*: 2.255)
 18. Tsakogiannis D, Papacharalampous M, Toska E, **Kyriakopoulou Z**, Dimitriou TG, Ruether IG, Komiotis D, Markoulatos P. Duplex Real-time PCR assay and SYBR green I melting curve analysis for molecular identification of HPV genotypes 16, 18, 31, 35, 51 and 66. *Mol Cell Probes.* 2014 Oct 2. pii: S0890-8508(14)00046-2
 19. Tsakogiannis D, **Kyriakopoulou Z**, Ruether IG, Amoutzias GD, Dimitriou TG, Diamantidou V, Kotsovassilis C, Markoulatos P. Determination of HPV16 physical status through E1/E6 and E2/E6 ratio analysis. *J Med Microbiol.* 2014 Sep 11. pii: jmm.0.076810-0.)
 20. Ruether IG, Dimitriou TG, Tsakogiannis D, **Kyriakopoulou Z**, Amoutzias GD, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Characterization of novel intergenogroup and intergenotype recombinant noroviruses from central Greece. *Mol Cell Probes.* 2014 Aug;28(4):204-10.
 21. Tsakogiannis D, **Kyriakopoulou Z**, Darmis F, Ruether IG, Dimitriou TG, Orfanoudakis G, Panotopoulou E, Markoulatos P. Prevalence of HPV16 E1-1374^Δ63nt variants in Greek women. *J Med Virol.* 2014 May;86(5):778-84.
 22. Dimitriou TG, Pliaka V, **Kyriakopoulou Z**, Ruether IG, Tsakogiannis D, Fountoucidou P, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. PCR assays for the identification of rare recombination types from VP1 to 3D genomic region of vaccine derived poliovirus strains. *Mol Cell Probes.* 2014 Aug;28(4):107-12.[Epub ahead of print]
 23. Ruether IG, Tsakogiannis D, **Kyriakopoulou Z**, Dimitriou TG, Papamichail C, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Circulation of intergenotype recombinant noroviruses GII.9/GII.6 from 2006 to 2011 in central Greece. *Virus Genes.* 2014 Feb;48(1):23-31.
 24. Tsakogiannis D, Darmis F, Gortsilas P, Ruether IG, **Kyriakopoulou Z**, Dimitriou TG, Amoutzias G, Markoulatos P. Nucleotide polymorphisms of the human papillomavirus 16 E1 gene. *Arch Virol.* 2014 Jan;159(1):51-63.

25. Tsakogiannis D, Papadopoulou A, Kontostathi G, Ruether IG, **Kyriakopoulou Z**, Dimitriou TG, Orfanoudakis G, Markoulatos P. Molecular and evolutionary analysis of HPV16 E6 and E7 genes in Greek women. *J Med Microbiol.* 2013 Nov;62(Pt 11):1688-96.
26. **Kyriakopoulou Z**, Tsolis K, Pliaka V, Tsakogiannis D, Ruether IG, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Combined 5' UTR RFLP analysis and VP1 sequencing for epidemic investigation of enteroviruses. *Arch Virol.* 2013 Jan;158(1):103-11.
27. Tsakogiannis D, **Kyriakopoulou Z**, Amoutzias G, Ruether IG, Dimitriou TG, Panotopoulou E, Markoulatos P. Identification of novel E6-E7 sequence variants of human papillomavirus 16. *Arch Virol.* 2013 Apr;158(4):821-8.
28. Pliaka V., **Kyriakopoulou Z**, Markoulatos P. Risks associated with the use of live attenuated vaccine poliovirus strains and the strategies for control and eradication of paralytic poliomyelitis. *Expert Rev. Vaccines.* 2012, 11 (5):609-628
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30. Tsakogiannis D, Ruether IG, Kyriakopoulou Z, Pliaka V, Skordas V, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Molecular and phylogenetic analysis of the HPV 16 E4 gene in cervical lesions from women in Greece. *Arch Virol.* 2012 Jun 9. [Epub ahead of print]
31. Tsakogiannis D, Ruether I, **Kyriakopoulou Z**, Pliaka V, Theoharopoulou A, Skordas V, Panotopoulou E, Nepka C, Markoulatos P. Sequence variation analysis of the E2 gene of human papilloma virus type 16 in cervical lesions from women in Greece. *Arch Virol.* 2012 May;157(5):825-32.)
32. Ruether IG, Tsakogiannis D, Pliaka V, **Kyriakopoulou Z**, Krikelis A, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Molecular characterization of a new intergenotype Norovirus GII recombinant. *Virus Genes.* 2012 Apr;44(2):237-43. Epub 2011 Dec 16.
33. Pliaka V., Filliponi M.E., **Kyriakopoulou Z**, Ruether I.G., Tsakogiannis D., Gartzonika C., Levidiotou-Stefanou S., Markoulatos P. Retrospective molecular and phenotypic analysis of poliovirus vaccine strains isolated in Greece. *Clin Microbiol Infect.* 2011 Oct;17(10):1554-62.
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35. Pliaka V., Achilleos C., **Kyriakopoulou Z**, Tsakogiannis D., Ruether I.G., Gartzonika C., Levidiotou-Stefanou S., Markoulatos P. Determination of antigenic properties of vaccine derived poliovirus strains. *Vaccine.* 2010 Dec 10;29(1):26-33. Epub 2010 Oct 23.
36. Pliaka V, **Kyriakopoulou Z**, Tsakogiannis D, Ruether IGA, C. Gartzonika, S. Levidiotou-Stefanou, A. Krikelis, Markoulatos P. 2010. Correlation of mutations and recombination with growth kinetics of Poliovirus vaccine strains. *Eur J Clin Microbiol Infect Dis* 2010 Dec;29(12):1513-23. Epub 2010 Sep 5.
37. Dedepsidis E., **Kyriakopoulou Z**, Pliaka V., Markoulatos P. 2010. Correlation between recombination junctions and RNA secondary structure elements in Poliovirus Sabin strains. *Virus Genes* 2010 Oct;41(2):181-91. Epub 2010 Jul 17.
38. **Kyriakopoulou Z**, Dedepsidis E, Pliaka V, Mastorakos P, Stamati A, Pratti A, Levidiotou-Stefanou S, Markoulatos P. Molecular identification and full genome analysis of an echovirus 7 strain isolated from the environment in Greece. *Virus Genes.* 2010 Apr;40(2):183-92.
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41. Pliaka V, Dedepsidis E, **Kyriakopoulou Z**, Papadi G, Tsakogiannis D, Pratti A, Levidiotou-Stefanou S, Markoulatos P. Growth kinetic analysis of bi-recombinant poliovirus vaccine strains. *Virus Genes*. 2010 Apr;40(2):200-11. Epub 2010 Jan 21.
42. Pliaka V, Dedepsidis E, **Kyriakopoulou Z**, Mpirli K, Tsakogiannis D, Pratti A, Levidiotou-Stefanou S, Markoulatos P. A new RT-PCR assay for the identification of the predominant recombination types in 2C and 3D genomic regions of vaccine-derived poliovirus strains. *Mol Cell Probes*. 2010. 24(3):115-23.
43. Bolanaki E, Kottaridi C, Dedepsidis E, **Kyriakopoulou Z**, Pliaka V, Pratti A, Levidiotou-Stefanou S, Markoulatos P. Direct extraction and molecular characterization of enteroviruses genomes from human faecal samples. *Mol Cell Probes*. 2008 Jun;22(3):156-61.)
44. Dedepsidis E, Pliaka V, **Kyriakopoulou Z**, Brakoulias C, Levidiotou-Stefanou S, Pratti A., Mamuris Z., Markoulatos P. Complete genomic characterization of an intertypic Sabin 3/Sabin 2 capsidrecombinant. *FEMS Immunol Med Microbiol*. 2008 Mar;52(3):343-51.
45. Dedepsidis E, **Kyriakopoulou Z**, Pliaka V, Kottaridi C, Bolanaki E, Levidiotou-Stefanou S, Komiotis D, Markoulatos P. A Retrospective characterization of a Vaccine derived Poliovirus type 1 isolated from sewages in Greece. *Appl Environ Microbiol*. 2007 Nov;73(21):6697-704.
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47. Pliaka V, Dedepsidis E, **Kyriakopoulou Z**, Papadopoulou I, Levidiotou S, Markoulatos P. Use of mutational pattern in 5'-NCR and VP1 regions of polioviruses for molecular diagnosis. *Mol Cell Probes*. 2007 Aug;21(4):267-75.
48. Bolanaki E, Kottaridi C, Markoulatos P, **Kyriakopoulou Z**, Margaritis L, Katsorichis T. Partial 3D gene sequences of Coxsackie viruses reveal interspecies exchanges. *Virus Genes*. 2007 Oct;35(2):129-40.
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