

Short Curriculum Vitae

Zaharoula G. Kyriakopoulou

I. PERSONAL DATA

Birth date: Aug 18th , 1980
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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

9/2024-today Professor of Environmental and Molecular Virology, Department of Environmental Sciences, University of Thessaly
5/2012-8/2024 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

1. Zygouras I, Leventakou D, Pouliakis A, Panagiotou S, Tsakogiannis D, Konstantopoulos G, Logotheti E, Samaras M, **Kyriakopoulou Z**, Beloukas A, Pateras IS, Delides A, Psyrris A, Panayiotides IG, Yiangou M, Kottaridi C. Human Papillomavirus 16 DNA Methylation Patterns and Investigation of Integration Status in Head and Neck Cancer Cases. *Int J Mol Sci*. 2023 Sep 26;24(19):14593. doi: 10.3390/ijms241914593.(I.F.: 5.6)
2. 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. (I.F.: 4.7)
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. (I.F.: 1.2)
4. 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 (I.F.: 4,723)
5. 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. (I.F.: 3,7)
6. 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 (I.F.: 3)
7. 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 (I.F.: 12,7)
8. **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. (I.F.: 2,7)
9. 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 Sep;66(9):1358-1365. doi: 10.1099/jmm.0.000563 (I.F.: 3)
10. 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 (I.F.: 2,4)
11. Tsimpidis M, Bachoumis 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. (I.F.: 3)

12. 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 (I.F.: 2,2)
13. 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. (I.F.: 2,1)
14. 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..(I.F.: 3,3)
15. 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. (I.F.: 12,7)
16. **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.
17. **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. (I.F.: 4,39)
18. 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.* 2015 Jan;160(1):207-14. doi: 10.1007/s00705-014-2261-6. (I.F.: 2,7)
19. 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.* 2015 Feb;29(1):13-8. doi: 10.1016/j.mcp.2014.09.003 .(I.F.: 3,3)
20. Tsakogiannis D, **Kyriakopoulou Z**, Ruether IGA, Amoutzias GD, Dimitriou TG, Diamantidou V, Kotsovassilis C, Markoulatos P. Determination of human papillomavirus 16 physical status through E1/E6 and E2/E6 ratio analysis. *J Med Microbiol.* 2014 Dec;63(Pt 12):1716-1723. doi: 10.1099/jmm.0.076810-0. (I.F.: 3)
21. 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. doi: 10.1016/j.mcp.2014.04.001. (I.F.: 3,3)
22. 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. doi: 10.1002/jmv.23896 (I.F.: 12,7)
23. 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. doi: 10.1016/j.mcp.2013.10.004. (I.F.: 3,3)
24. 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. doi: 10.1007/s11262-013-0994-z. (I.F.: 2,19)
25. Tsakogiannis D, Papadopoulou A, Kontostathi G, Ruether IGA, **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):1688-1696. doi: 10.1099/jmm.0.055491-0 (I.F.: 3)
 26. 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. doi: 10.1007/s00705-013-1790-8. Epub 2013 Jul 24. PMID: 23881083. (I.F.: 2,7)
 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. doi: 10.1007/s00705-012-1555-9. (I.F.: 2,7)
 28. **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. doi: 10.1007/s00705-012-(I.F.: 2,7)
 29. 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 May;11(5):609-28. doi: 10.1586/erv.12.28. -(I.F.: 6,2)
 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 Sep;157(9):1729-39. doi: 10.1007/s00705-012-1356-1 (I.F.: 2,7)
 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. doi: 10.1007/s00705-012-1236-8. (I.F.: 2,7)
 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. doi: 10.1007/s11262-011-0697-2 (I.F.: 2,19)
 33. **Kyriakopoulou Z**, Pliaka V, Tsakogiannis D, Ruether IG, Komiotis D, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Genome analysis of two type 6 echovirus (E6) strains recovered from sewage specimens in Greece in 2006. *Virus Genes*. 2012 Apr;44(2):207-16. doi: 10.1007/s11262-011-0688-3. (I.F.: 2,19)
 34. **Kyriakopoulou Z**, Dedepsidis E, Pliaka V, Tsakogiannis D, Ruether IG, Krikelis A, Markoulatos P. Complete nucleotide sequence analysis of the VP1 genomic region of Echoviruses 6 isolated from sewage in Greece revealed 98% similarity with Echoviruses 6 that were characterized from an aseptic meningitis outbreak 1 year later. *Clin Microbiol Infect*. 2011 Aug;17(8):1170-3. doi: 10.1111/j.1469-0691.2010.03381.x. (I.F.: 14,2)
 35. Pliaka V, Filliponi ME, **Kyriakopoulou Z**, Ruether IG, 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. doi: 10.1111/j.1469-0691.2011.03470.x. (I.F.: 14,2)
 36. Pliaka V, Achilleos C, **Kyriakopoulou Z**, Tsakogiannis D, Ruether IG, Gartzonika C, Levidiotou-Stefanou S, Markoulatos P. Determination of antigenic properties of vaccine derived poliovirus strains. *Vaccine*. 2010 Dec 10;29(1):26-33. doi: 10.1016/j.vaccine.2010.10.028. (I.F.: 5,5)

37. Pliaka V, **Kyriakopoulou Z**, Tsakogiannis D, Ruether IG, Gartzonika C, Levidiotou-Stefanou S, Krikelis A, Markoulatos P. Correlation of mutations and recombination with growth kinetics of poliovirus vaccine strains. *Eur J Clin Microbiol Infect Dis*. 2010 Dec;29(12):1513-23. doi: 10.1007/s10096-010-1033-9. (I.F.: 5,1)
38. Dedepsidis E, **Kyriakopoulou Z**, Pliaka V, Markoulatos P. Correlation between recombination junctions and RNA secondary structure elements in poliovirus Sabin strains. *Virus Genes*. 2010 Oct;41(2):181-91. doi: 10.1007/s11262-010-0512-5. (I.F.: 2,19)
39. Pliaka V, Ruether IG, **Kyriakopoulou Z**, Kioussi P, Plakokefalos E, Megalou M, Pratti A, Levidiotou-Stefanou S, Markoulatos P. A seroprevalence study of poliovirus antibody against a collection of recombinant and non-recombinant poliovirus vaccine strains in the population of southern Greece. *Clin Microbiol Infect*. 2010 Nov;16(11):1672-5. doi: 10.1111/j.1469- (I.F.: 14,2)
40. **Kyriakopoulou Z**, Dedepsidis E, Pliaka V, Tsakogiannis D, Pratti A, Levidiotou-Stefanou S, Markoulatos P. Full-genome sequence analysis of a multirecombinant echovirus 3 strain isolated from sewage in Greece. *J Clin Microbiol*. 2010 May;48(5):1513-9. doi: 10.1128/JCM.00475-09. (I.F.: 9,4)
41. **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. doi: 10.1007/s11262-009-0446-y. (I.F.: 2,19)
42. 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. doi: 10.1007/s11262-010-0448-9. (I.F.: 2,19)
43. 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 Jun;24(3):115-23. doi: 10.1016/j.mcp.2009.11.003. (I.F.: 3,3)
44. 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. doi: 10.1016/j.mcp.2007.12.001. (I.F.: 3,3)
45. Dedepsidis E, Pliaka V, **Kyriakopoulou Z**, Brakoulis C, Levidiotou-Stefanou, Pratti A, Mamuris Z, Markoulatos P. Complete genomic characterization of an intertypic Sabin 3/Sabin 2 capsid recombinant. *FEMS Immunol Med Microbiol*. 2008 Apr;52(3):343-51. doi: 10.1111/j.1574-695X.2008.00381.x. (I.F.: 3,078)
46. Dedepsidis E, **Kyriakopoulou Z**, Pliaka V, Kottaridi C, Bolanaki E, Levidiotou-Stefanou S, Komiotis D, Markoulatos P. Retrospective characterization of a vaccine-derived poliovirus type 1 isolate from sewage in Greece. *Appl Environ Microbiol*. 2007 Nov;73(21):6697-704. doi: 10.1128/AEM.00535-07 (I.F.: 4,4)
47. Kottaridi C, Bolanaki E, **Kyriakopoulou Z**, Dedepsidis E, Pratti A, Markoulatos P. Possible recombination and gene adaptation exchanges among clinical echovirus strains: crossing the temporal and topological barriers. *Diagn Microbiol Infect Dis*. 2007 Aug;58(4):407-12. doi:10.1016/j.diagmicrobio.2007.03.007. (I.F.: 2,9)
48. 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. doi: 10.1016/j.mcp.2007.01.004. (I.F.: 3,3)
49. 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. doi: 10.1007/s11262-007-0083-2. (I.F.: 2,19)

50. Dedepsidis E, Karakasiliotis I, Paximadi E, **Kyriakopoulou Z**, Komiotis D, Markoulatos P. Detection of unusual mutation within the VP1 region of different re-isolates of poliovirus Sabin vaccine. *Virus Genes*. 2006 Oct;33(2):183-91. doi: 10.1007/s11262-005-0055-3. (I.F.: 2,19)
51. **Kyriakopoulou Z**, Kottaridi C, Dedepsidis E, Bolanaki E, Levidiotou-Stefanou S, Markoulatos P. Molecular characterization of wild-type polioviruses isolated in Greece during the 1996 outbreak in Albania. *J Clin Microbiol*. 2006 Mar;44(3):1150-2. doi: 10.1128/JCM.44.3.1150-1152.2006. (I.F.: 9,4)
52. Triantos D, Horefti E, Paximadi E, **Kyriakopoulou Z**, Karakassiliotis G, Papanastasiou K, Lelekis M, Panos G, Donta-Bakoyianni C, Rapidis A, Markoulatos P. Presence of human herpes virus-8 in saliva and non-lesional oral mucosa in HIV-infected and oncologic immunocompromised patients. *Oral Microbiol Immunol*. 2004 Jun;19(3):201-4. doi: 10.1111/j.0902-0055.2002.00131.x. (I.F.: 2,8)