

Zoumpourlis Vassilis

Director of Research, Head of the research team of Biomedical Applications Unit and is also head of the certified NHRF animal facility Institute of Chemical Biology

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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Univ. J E Purkyne, Brno, Czech Rep. (1981-1986)	Diploma	5	Mol. Biology and
Univ. J E Purkyne, Brno, Czech Rep. (1986-1987)	M.Sc.	1	Mol. Genetics
Nat Hellenic Research Foundation (1989-1994)	PhD	4	Mol. Biology of HIV-1
Nat Hellenic Research Foundation (1994-1998)	Post-Doc	5	Mol. Biology of cancer

Positions and Employment

1989-1994 PhD, IBRB, NHRF Post-Doc

1994-1998 Post-Doc

1998-2003 Functional Scientist, Grade B, IBMCB, NHRF

2003-2006 Functional Scientist, Grade A, IBMCB, NHRF

2006-2013 Research Associate Professor, IBMCB, NHRF

2013- Research Professor, Researcher A, IBMCB, NHRF

2002- Head of the research team of Biomedical Applications Unit, IBMCB, NHRF

RESEARCH ACTIVITIES ABROAD

1992	Visitor researcher, Molecular Oncology Group, Department of Clinical Dental Sciences, The University of Liverpool, UK
1993	Visitor researcher, Molecular Oncology Group, Department of Clinical Dental Sciences, The University of Liverpool, UK
1995	Visitor researcher, Marie Curie Institute, Paris, France
1998	Visitor researcher, Department of Molecular Cell Biology, Sylvius Laboratory, Leiden, Netherlands
2002	Visitor researcher, Department of Molecular Biology, Amsterdam, Netherlands

2004	Visitor researcher, Department of Molecular Oncology, Mazaryk Institute, Brno, Czech R
2005	Visitor researcher, Department of Molecular Oncology, Mazaryk Institute, Brno, Czech R
2007	Visitor researcher, Paterson Institute, Department of Cancer Research, Manchester, UK
2007	Visitor researcher, Roy Castle Lung Cancer Institute, The University of Liverpool, Department of Clinical and Molecular Cancer Medicine, UK
2008	Visitor researcher, UCSF Comprehensive Cancer Center, University of California, San Francisco, USA

i. Research Records

- ***Publications in International peer review Scientific Journals: 109***
- ***Book monography: 1***
- ***Full publications list:***
<http://www.ncbi.nlm.nih.gov/pubmed?term=zoumpourlis%20v>
- ***Total Impact Factor: IF > 600***
- ***Average Value of Impact Factor per publication: 5,5***
- ***Citations: 6298 (2/ 12/ 2021, My google scholar citation)***
- ***h-Index = 37 (5/ 6/ 2022, My google scholar citation)***
- ***Publications in Proceedings of Greek and International conferences: 39***
- ***Publications in Greek: 25***

ii. Experience in Education

Supervision of 10 diplomas, 13 Master thesis, 17 PhD thesis and 8 Post-Doc Researchers. 2004-2022: Lecturer at Msc classes, Medical School, University of Athens Pharmaceutical Department, University of Patras, Molecular Biology Department, Democretian, University of Thrace, Faculty of Biology, Kapodistrian University of Athens, University of Ioannina faculty of Biotechnology, Medical School of Creta. Topic: Molecular mechanisms of cancer in mouse and human models, stem cell biology.

iii. Research Interests

The interests of Dr Vasilis Zoumpourlis' group cover the field of the molecular biology of cancer, mainly the study of genes with a crucial role in the molecular mechanisms of multistage carcinogenesis and metastasis. More specifically our research interests include the identification of reliable biomarkers with prognostic and predictive significance for patients with prostate cancer and patients with head and neck cancer; the upper aim is to significantly contribute towards a more accurate diagnosis, better risk stratification and the identification of patient personalized response to treatments. Dr Vasilis Zoumpourlis' group has recently extended its activities towards the intriguing research of stem cells and their applications in cancer therapeutics. The current challenge of the group is to develop new

generation translational products for cytotherapy-based cancer management and testing of drugs. To this end, the group recently transferred its long-term experience and know-how in molecular biology of cancer in the emerging field of stem-cell biology, in order (a) to design stem cell-based vehicles for effective and specific tumor targeting and (b) to develop improved in vitro preclinical assays for quick and reliable assessing of toxicology and safety profiles of drugs.

iv. Honors and Awards

1981: Scholarship from Univ. J E Purkyne, Brno, Czech Republic (best performance)
1982: Scholarship from Univ. J E Purkyne, Brno, Czech Republic (best performance)
1983: Scholarship from Univ. J E Purkyne, Brno, Czech Republic (best performance)
1984: Scholarship from Univ. J E Purkyne, Brno, Czech Republic (best performance)
1985: Scholarship from Univ. J E Purkyne, Brno, Czech Republic (best performance)
1996: Hellenic Pneumonological Society, March 1996, 3rd prize
2000: Hellenic Society of General Pathology and Pathological Anatomy, 1st Galinos prize
2000: University of Athens, January, 3rd prize
2002: 4th Hellenic Conference of Cancer markers, 3rd prize
2007: 2nd Bioscience Conference, University of Patras, 1st prize
2007: 2nd Bioscience Conference, University of Patras, 2nd prize
2007: Fullbright award for academic period 2007-2008, for research in UCSF Comprehensive Cancer Center, University of California, San Francisco
2009 : 3rd International Kallikrein Symposium, Minch Germany, 1st prize.

v. Reviewer for scientific journals

BBA–Molecular Cell Research, BMC Cancer, Plos One, Carcinogenesis, Molecular Carcinogenesis, Oncogene, Cancer Letters, Cancer Biomarkers, Clinical Biochemistry, International Journal of Cancer, Tumor Biology, Advances Biomedicina, Oncotarget.

vi. Reviewer for grants

Ministry of Education, Greek Secretariat of Research and Technology, IPE Cyprus, The Czech Ministry of Education, The Austrian Federal Ministry of Education, The Italian Ministry of Education, The Poland Ministry of Education, The South Arabia Ministry of Education.

vii. Invited speaker: >60

viii. Funding: > 3500 KEuros

viii. Group Structure and Personnel

Members of the team from 2018 to present

Vassilis Zoumpourlis PhD, Research Director

Manthos Papadopoulos Research Emeritus

Post-docs

Maria Adamaki (1/11/2018-): Cancer Biomarkers

Ioannis Christodoulou (2012-): Stem cell Biology

PhDs

Nikos Houri (2016-2020): kallikrein 6 (KLK-6) in inflammation and cancer of skin.

Maria Goulielmaki (2018-2021): Toxicity, stem cell-based cancer cytotherapy, nanomedicine.

Stella Baliou (2018-2021): Taurin derivatives and anticancer therapy.

Collaborative PhDs

Hellen Zingou. (2016-2019), PhD Thesis: «Generation and characterization of novel mouse models to validate the role of KLK5 protease in inflammation for pharmacological applications» University of Patras, Department of Pharmacy, Biomedical Applications Unit, Institute of Chemical Biology, NHRF

Christina Karavassili. (2017-2020), PhD Thesis. «Development of innovative peptide vectors with self-assembly properties for local administrations». Department of Molecular Biology & Genetics (MBG) of Democritus University of Thrace, Biomedical Applications Unit, Institute of Chemical Biology, NHRF

Pelagia Chodrou. (2017-2021). PhD Thesis. «The mechanisms of effects of probiotic organisms in vitro and in vivo systems.». Department of Molecular Biology & Genetics (MBG) of Democritus University of Thrace, Biomedical Applications Unit, Institute of Chemical Biology, NHRF

Masters

Eirini Moisidou. Master Thesis. The inducible immunopuripotent stem cells: Cytotherapy in regenerative medicine and in human disease design. Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical School of Athens, Department of Physiology (2017-2018)

George Drillis. Master Thesis. LncRNAs: Regulation, function and cancer. Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical school of Crete (2019-2020)

Aria Simatou. Master Thesis. Historical retrospective of the SRC oncogene and new perspectives. Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical school of Crete (2019-2020)

Kaliopi Iordanidou. Master Thesis. Historical retrospective analysis of the p53 gene.

Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical school of Crete (2020-2021)

Alexadros Karagianakos. Master Thesis. " Targeting oncogenic pathways in the era of Personalized Oncology: A systemic analysis reveals highly mutated signalling pathways on cancer patients and puts therapeutic targets on display. Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical school of Crete (2021-2022)

Maria Francesca. Master Thesis. "The evolution of the p53 molecules and the p53-MDM2 interaction". Biomedical Applications Unit, Institute of Chemical Biology, NHRF and Medical school of Crete (2021-2022)

Katerina Vourlia. Master Thesis. "STUDY OF THE TRANSCRIPTIONAL REPRESSOR ERF IN PROSTATE CANCER". Medical school of Crete Biomedical Applications Unit, Institute of Chemical Biology, NHRF. (2021-2022)

Undergraduate Students, Internships

Maria Margariti. Diploma. The Wharthon jelly stem cells as a tool for cancer cytototherapy. University of Ioannina, Department of of Biological Applications and Technology and Biomedical Applications Unit, Institute of Chemical Biology, NHRF 2017-2018.

Hellen Zervopoulou. Diploma: «In vitro and in vivo studies of the anticancer properties of natural products in cancer cell models». Biomedical Applications Unit, Institute of Chemical Biology, NHRF and University of Athens, Department of Biology 2018 -2019

Practical exercise of undergraduate students

Kefalas F. "In vitro study of cytotoxicity of selected nanoparticles in standard cell systems." 2021, 2-month internship. University of Athens Department of Biology

Theodoropoulou M. "In vitro study of cytotoxicity of newly synthesized chemicals and putative drugs in standard cell systems." 2021, 2-month internship. University of Ioannina, Department of of Biological Applications

Kokkinogenis L. " In vitro study of cytotoxicity of selected nanoparticles in standard cell systems." 2020, 2-month internship. University of Ioannina, Department of of Biological Applications

Papakostopoulou S. "In vitro study of cytotoxicity of newly synthesized chemicals and putative drugs in standard cell systems." 2020, 2-month internship. University of Thessali, Department of Biotechnology

Kotsari M. " In vitro study of cytotoxicity of chemicals in cancerous and non-malignant cells." 2020, 2-month internship

Dalli E. " In vitro study of cytotoxicity of nanomaterials and drugs in standard cell systems." 2019, 2-month internship

Zoumpourlis P. " In vitro study of cytotoxicity of nanomaterials and drugs in standard cell systems. " 2020, 2-month internship. University of Ioannina, Department of of Biological Applications and Technology

Georgia Taktikou (1/7/2018-30/8/2018)- University of Athens Department of Biology.

Despina Voulgari (1/7/2022-30/8/2022.) - University of Ioannina, Department of of Biological Applications

Zoumpourlis P. (1/7/2022-30/8/2022.). University of Ioannina, Department of of Biological Applications and Technology

Collaborations

Institute of Chemical Biology, National Hellenic Research Foundation

Dr Maria Zervou

Dr Ioannis Kostas

Dr Dimitris Papahatjis

Dr Vasilis Souliotis

Dr Olga Papadodima

Dr Theodora Kalogeropoulou

Dr Christos Chochos

Institute of Theoretical and Physical Chemistry, National Hellenic Research Foundation

Dr Nikos Tagmatarchis

National

Prof. G Sotiropoulou: Department of Pharmacy, University of Patras

Assoc Prof G Pampalakis: Department of Pharmacy, University of Thessaloniki

Dr Kostas Baxevanis: Cancer Immunology & Immunotherapy Center, Saint Savas Cancer Hospital, Athens, Greece

Prof Ioannis Trougakos: Department of Cell Biology and Biophysics, Faculty of Biology, National and Kapodistrian University of Athens, 15784, Athens, Greece

Prof. Manolis Rizos: Second Department of Psychiatry, National and Kapodistrian University of Athens, Attikon University General Hospital, Athens 12462, Greece.

Prof Dimitrios Spandidos: Laboratory of Clinical Virology, School of Medicine, University of Crete, Heraklion 71003, Greece

Prof Dimitrios Fatouros: Department of Pharmacy, University of Thessaloniki

Prof Kostas Avgoustakis: Department of Pharmacy, University of Patras

International

Dr Agelliki Malliri, Cancer Research UK Paterson Institute for Cancer Research, University of Manchester, UK

Prof Allan Balmain, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, USA

Dr Borek Vojtesek: Regional Centre for Applied Molecular Oncology, Masaryk Memorial Cancer Institute, Zluty kopec 7, Brno, 65653, Czech Republic

Dr Tanya Kadiyska: Department of Physiology and Pathophysiology, Medical University, 1413 Sofia, Bulgaria

Dr Robin Fahraeus: Institut de Génétique Moléculaire, INSERM Unité 940, Université Paris VII, Hôpital St Louis, Paris, France

Prof. M Hirstka: Regional Centre for Applied Molecular Oncology, Masaryk Memorial Cancer Institute, Zluty kopec 7, Brno, 65653, Czech Republic

Prof Michalis Panagiotidis: Department of Applied Sciences, Northumbria University, Newcastle Upon Tyne NE1 8ST, UK. m.panagiotidis@northumbria.ac.uk.

List of publications

Peer-reviewed Publications

1. Efsthathiou V, Stefanou MI, Demetriou M, Siafakas N, Makris M, Tsivgoulis G, Zoumpourlis V, Kypourouopoulos SP, Tsoporis JN, Spandidos DA, Smyrnis N, Rizos E. Long COVID and neuropsychiatric manifestations (Review). **Exp Ther Med.** **2022 May;23(5):363.** doi: 10.3892/etm.2022.11290. Epub 2022
2. Kadiyska T, Tourtourikov I, Dabchev K, Madzharova D, Tincheva S, Spandidos DA, Zoumpourlis V. Role of testis-specific serine kinase 1B in undiagnosed male infertility. **Mol Med Rep.** **2022 Jun;25(6):204.** doi: 10.3892/mmr.2022.12720. Epub 2022 Apr 29. PMID: 35485285.
3. Goulielmaki M, Davanos N, Kogionou P, Batsaki P, Stokidis S, Adamaki M, Mosa E, Vasilakou E, Zambatis C, Gritzapis AD, Zoumpourlis V, Baxeavanis CN, Fortis SP The impact of radiation therapy on the TCR Vβ chain repertoire in patients with prostate cancer. **Int J Oncol.** **2022 Jun;60(6):71.** doi: 10.3892/ijo.2022.5361. Epub 2022 Apr 21. PMID: 35445738 Free PMC article.
4. Karagiannakos A, Adamaki M, Tsintarakis A, Vojtesek B, Fähræus R, Zoumpourlis V, Karakostis K. Targeting Oncogenic Pathways in the Era of Personalized Oncology: A Systemic Analysis Reveals Highly Mutated Signaling Pathways in Cancer Patients and Potential Therapeutic Targets. **Cancers (Basel).** **2022 Jan 28;14(3):664.** doi: 10.3390/cancers14030664. PMID: 35158934 Free PMC article. Review.
5. Christodoulou I, Goulielmaki M, Kritikos A, Zoumpourlis P, Koliakos G, Zoumpourlis V. Suitability of Human Mesenchymal Stem Cells Derived from Fetal Umbilical Cord (Wharton's Jelly) as an Alternative In Vitro Model for Acute Drug Toxicity Screening.

Cells. **2022 Mar 24;11(7):1102.** doi: 10.3390/cells11071102. PMID: 35406666
Free PMC article.

6. Efsthathiou V, Stefanou MI, Siafakas N, Makris M, Tsivgoulis G, Zoumpourlis V, Spandidos DA, Smyrnis N, Rizos E. Suicidality and COVID-19: Suicidal ideation, suicidal behaviors and completed suicides amidst the COVID-19 pandemic (Review). **Exp Ther Med.** **2022 Jan;23(1):107.** doi: 10.3892/etm.2021.11030. Epub 2021 Dec 2. PMID: 34976149 Free PMC article. Review.
7. Constantin N. Baxevanis 1, Angelos D. Gritzapis , Ioannis F. Voutsas , Panagiota Batsaki , Maria Goulielmaki , Maria Adamaki , Vassilios Zoumpourlis and Sotirios P. Fortis. T-Cell Repertoire in Tumor Radiation: The Emerging Frontier as a Radiotherapy Biomarker. **Cancers** **2022, 14, 2674.** <https://doi.org/10.3390/cancers14112674>
8. Baliou S, Goulielmaki M, Ioannou P, Cheimonidi C, Trougakos IP, Nagl M, Kyriakopoulos AM, Zoumpourlis V. (2021). Bromamine T (BAT) Exerts Stronger Anti-Cancer Properties than Taurine (Tau). **Cancers (Basel).** **13(2):182.** doi: 10.3390/cancers13020182. **I**
9. Giannopoulou I, Galinaki S, Kollintza E, Adamaki M, Kympouropoulos S, E, Tsamakidis K, Tsangaris I, Spandidos DA, Siafakas N, **Zoumpourlis V**, Rizos E. (2021). COVID-19 and post-traumatic stress disorder: The perfect 'storm' for mental health (Review). **Exp Ther Med.** **22(4):1162.** doi: 10.3892/etm.2021.10596
10. Pampalakis G, Zingkou E, Zoumpourlis V, Sotiropoulou G. (2021). Ectopic expression of KLK6 in MDA-MB-435 melanoma cells reduces tumorigenicity in vivo. **Pathol Res Pract.** **217:153276.** doi: 10.1016/j.prp.2020.153276.
11. Mitsiogianni M, Trafalis DT, Franco R, Zoumpourlis V, Pappa A, Panayiotidis MI. (2021). Sulforaphane and iberin are potent epigenetic modulators of histone acetylation and methylation in malignant melanoma. **Eur J Nutr.** **60(1):147-158.** doi: 10.1007/s00394-020-02227-y.
12. Adamaki M, Zoumpourlis V. (2021) Immunotherapy as a Precision Medicine Tool for the Treatment of Prostate Cancer. **Cancers (Basel).** **6;13(2):173.** doi: 10.3390/cancers13020173
13. Baliou S, Adamaki M, Ioannou P, Pappa A, Panayiotidis MI, Spandidos DA, Christodoulou I, Kyriakopoulos AM, Zoumpourlis V. (2021). Protective role of taurine against oxidative stress (Review). **Mol Med Rep.** **24(2):605.** doi: 10.3892/mmr.2021.12242.
14. Adamaki M, Zoumpourlis V. (2021). Prostate Cancer Biomarkers: From diagnosis to prognosis and precision-guided therapeutics. **Pharmacol Ther.** **24;228:107932.** doi: 10.1016/j.pharmthera.2021.107932
15. Drillis G, Goulielmaki M, Spandidos DA, Aggelaki S, Zoumpourlis V. (2021). Non-coding RNAs (miRNAs and lncRNAs) and their roles in lymphogenesis in all types of lymphomas and lymphoid malignancies. **Oncol Lett.** **21(5):393.** doi: 10.3892/ol.2021.12654.
16. Baliou S, Sofopoulos M, Goulielmaki M, Spandidos DA, Ioannou P, Kyriakopoulos AM, Zoumpourlis V. (2021). Bromamine T, a stable active bromine compound, prevents the LPS-induced inflammatory response. **Int J Mol Med.** **47(4):37.** doi: 10.3892/ijmm.2021.4870.
17. Kokkinelis E, Deli M, Papakostopoulou S, Kotsari M, Zoumpourlis P Goulielmaki M and **V Zoumpourlis.** (2021) Review of the applications of mouse models in cancer research **ARCHIVES OF HELLENIC MEDICINE** **38(2):166-176**
18. Kotsari M Kokkinelis E, Deli M, Papakostopoulou S, Zoumpourlis P Goulielmaki M and **V Zoumpourlis.** (2021) Review of the applications of iPSCs and their role in cancer. **ARCHIVES OF HELLENIC MEDICINE** **38(4):459-470**
19. Zoumpourlis V, Goulielmaki M, Rizos E, Baliou S, Spandidos DA. [Comment] The COVID-19 pandemic as a scientific and social challenge in the 21st century. **Mol Med**

- Rep. 2020 Jul 30.** doi: 10.3892/mmr.2020.11393. Online ahead of print. PMID: 32945405
20. Simatou A, Simatos G, Goulielmaki M, Spandidos DA, Baliou S, Zoumpourlis V. Historical retrospective of the SRC oncogene and new perspectives (Review). **Mol Clin Oncol. 2020 Oct;13(4):21.** doi: 10.3892/mco.2020.2091. Epub 2020 Jul 14. PMID: 32765869
 21. Baliou S, Kyriakopoulos AM, Spandidos DA, Zoumpourlis V. Role of taurine, its haloamines and its lncRNA TUG1 in both inflammation and cancer progression. On the road to therapeutics? (Review). **Int J Oncol. 2020 Sep;57(3):631-664.** doi: 10.3892/ijo.2020.5100. Epub 2020 Jul 14. PMID: 32705269
 22. Baliou S, Kyriakopoulos AM, Goulielmaki M, Panayiotidis MI, Spandidos DA, Zoumpourlis V. Significance of taurine transporter (TauT) in homeostasis and its layers of regulation (Review). **Mol Med Rep. 2020 Sep;22(3):2163-2173.** doi: 10.3892/mmr.2020.11321. Epub 2020 Jul 9. PMID: 32705197
 23. Sommerova L, Ondrouskova E, Martisova A, Zoumpourlis V, Galtsidis S, Hrstka R. ZEB1/miR-200c/AGR2: A New Regulatory Loop Modulating the Epithelial-Mesenchymal Transition in Lung Adenocarcinomas. **Cancers (Basel). 2020 Jun 18;12(6):1614.** doi: 10.3390/cancers12061614. PMID: 32570918
 24. Mitsiogianni M, Trafalis DT, Franco R, Zoumpourlis V, Pappa A, Panayiotidis MI. Sulforaphane and iberin are potent epigenetic modulators of histone acetylation and methylation in malignant melanoma. **Eur J Nutr. 2020 Mar 25.** doi: 10.1007/s00394-020-02227-y. Online ahead of print. PMID: 32215717
 25. Kyriakopoulos AM, Nagl M, Orth-Höller D, Marcinkiewicz J, Baliou S, Zoumbourlis V. Successful treatment of a unique chronic multi-bacterial scalp infection with N-chlorotaurine, N-bromotaurine and bromamine T. **Access Microbiol. 2020 Apr 24;2(7):acmi000126.** doi: 10.1099/acmi.0.000126. eCollection 2020. PMID: 32974590
 26. Goulielmaki M, Assimomytis N, Rozanc J, Taki E, Christodoulou I, Alexopoulos LG, Zoumpourlis V, Pintzas A, Papahadjis D. DPS-2: A Novel Dual MEK/ERK and PI3K/AKT Pathway Inhibitor with Powerful Ex Vivo and In Vivo Anticancer Properties. **Transl Oncol. 2019 Jul;12(7):932-950.** doi: 10.1016/j.tranon.2019.04.005. Epub 2019 May 13. PMID: 31096110
 27. Karavasili C, Andreadis DA, Katsamenis OL, Panteris E, Anastasiadou P, Kakazanis Z, Zoumpourlis V, Markopoulou CK, Koutsopoulos S, Vizirianakis IS, Fatouros DG. Synergistic Antitumor Potency of a Self-Assembling Peptide Hydrogel for the Local Co-delivery of Doxorubicin and Curcumin in the Treatment of Head and Neck Cancer. **Mol Pharm. 2019 Jun 3;16(6):2326-2341.** doi: 10.1021/acs.molpharmaceut.8b01221. Epub 2019 May 8. PMID: 31026168
 28. Mitsiogianni M, Koutsidis G, Mavroudis N, Trafalis DT, Botaitis S, Franco R, Zoumpourlis V, Amery T, Galanis A, Pappa A, Panayiotidis MI. The Role of Isothiocyanates as Cancer Chemo-Preventive, Chemo-Therapeutic and Anti-Melanoma Agents. **Antioxidants (Basel). 2019 Apr 18;8(4):106.** doi: 10.3390/antiox8040106. PMID: 31003534
 29. Pampalakis G, Zingkou E, Sidiropoulos KG, Diamandis EP, Zoumpourlis V, Yousef GM, Sotiropoulou G. Biochemical pathways mediated by KLK6 protease in breast cancer. **Mol Oncol. 2019 Nov;13(11):2329-2343.** doi: 10.1002/1878-0261.12493. Epub 2019 Sep 30. PMID: 30980596
 30. STELLA BALIOU, MARIA ADAMAKI, DEMETRIOS A. SPANDIDOS, ANTHONY M. KYRIAKOPOULOS, IOANNIS CHRISTODOULOU and VASSILIS ZOUMPOURLIS. The microbiome, its molecular mechanisms and its potential as a therapeutic strategy against colorectal carcinogenesis (Review). **WORLD ACADEMY OF SCIENCES JOURNAL 1: 3-19, 2019.** DOI: 10.3892/wasj.2018.6

31. Mitsiogianni M, Mantso T, Trafalis DT, Vasantha Rupasinghe HP, Zoumpourlis V, Franco R, Botaitis S, Pappa A, Panayiotidis MI. Allyl isothiocyanate regulates lysine acetylation and methylation marks in an experimental model of malignant melanoma. **Eur J Nutr.** **2020 Mar;59(2):557-569.** doi: 10.1007/s00394-019-01925-6. Epub 2019 Feb 14. PMID: 30762097
32. Christodoulou I, Goulielmaki M, Devetzi M, Panagiotidis M, Koliakos G, Zoumpourlis V. Mesenchymal stem cells in preclinical cancer cytotherapy: a systematic review. **Stem Cell Res Ther.** **2018 Dec 7;9(1):336.** doi: 10.1186/s13287-018-1078-8. PMID: 30526687
33. Angelopoulou A, Kolokithas-Ntoukas A, Papaioannou L, Kakazanis Z, Khoury N, Zoumpourlis V, Papatheodorou S, Kardamakis D, Bakandritsos A, Hatziantoniou S, Avgoustakis K. Canagliflozin-loaded magnetic nanoparticles as potential treatment of hypoxic tumors in combination with radiotherapy. **Nanomedicine (Lond).** **2018 Oct;13(19):2435-2454.** doi: 10.2217/nnm-2018-0145. Epub 2018 Oct 12. PMID: 30311542
34. Vlahopoulos S, Adamaki M, Khoury N, Zoumpourlis V, Boldogh I. Roles of DNA repair enzyme OGG1 in innate immunity and its significance for lung cancer. **Pharmacol Ther.** **2019 Feb;194:59-72.** doi: 10.1016/j.pharmthera.2018.09.004. Epub 2018 Sep 19. PMID: 30240635
35. Khoury N, Zingkou E, Pampalakis G, Sofopoulos M, Zoumpourlis V, Sotiropoulou G. KLK6 protease accelerates skin tumor formation and progression. **Carcinogenesis.** **2018 Dec 31;39(12):1529-1536.** doi: 10.1093/carcin/bgy110. PMID: 30137206
36. Baliou S, Adamaki M, Kyriakopoulos AM, Spandidos DA, Panayiotidis M, Christodoulou I, Zoumpourlis V. CRISPR therapeutic tools for complex genetic disorders and cancer (Review). **Int J Oncol.** **2018 Aug;53(2):443-468.** doi: 10.3892/ijo.2018.4434. Epub 2018 Jun 6. PMID: 29901119.
37. Mitsiogianni M, Amery T, Franco R, Zoumpourlis V, Pappa A, Panayiotidis MI. From chemo-prevention to epigenetic regulation: The role of isothiocyanates in skin cancer prevention. **Pharmacol Ther.** **2018 Oct;190:187-201.** doi: 10.1016/j.pharmthera.2018.06.001. Epub 2018 Jun 8. PMID: 29890115
38. Cheimonidi C, Samara P, Polychronopoulos P, Tsakiri EN, Nikou T, Myrianthopoulos V, Sakellaropoulos T, Zoumpourlis V, Mikros E, Papassideri I, Argyropoulou A, Halabalaki M, Alexopoulos LG, Skaltsounis AL, Tsitsilonis OE, Aligiannis NN, Trougakos IP. Selective cytotoxicity of the herbal substance acteoside against tumor cells and its mechanistic insights. **Redox Biol.** **2018 Jun;16:169-178.** doi: 10.1016/j.redox.2018.02.015. Epub 2018 Mar 1. PMID: 29505920
39. Devetzi M, Goulielmaki M, Khoury N, Spandidos DA, Sotiropoulou G, Christodoulou I, Zoumpourlis V. Genetically-modified stem cells in treatment of human diseases: Tissue kallikrein (KLK1)-based targeted therapy (Review). **Int J Mol Med.** **2018 Mar;41(3):1177-1186.** doi: 10.3892/ijmm.2018.3361. Epub 2018 Jan 3. PMID: 29328364
40. Baliou S, Adamaki M, Kyriakopoulos AM, Spandidos DA, Panayiotidis M, Christodoulou I, Zoumpourlis V. Role of the CRISPR system in controlling gene transcription and monitoring cell fate (Review). **Mol Med Rep.** **2018 Jan;17(1):1421-1427.** doi: 10.3892/mmr.2017.8099. Epub 2017 Nov 16. PMID: 29257248
41. Panagiotaki KN, Sideratou Z, Vlahopoulos SA, Paravatou-Petsotas M, Zachariadis M, Khoury N, Zoumpourlis V, Tsiourvas D. A Triphenylphosphonium-Functionalized Mitochondriotropic Nanocarrier for Efficient Co-Delivery of Doxorubicin and Chloroquine and Enhanced Antineoplastic Activity. **Pharmaceuticals (Basel).** **2017 Nov 21;10(4):91.** doi: 10.3390/ph10040091 PMID: 29160846
42. Kyriakopoulos AM, Nagl M, Baliou S, Zoumpourlis V. Alleviating Promotion of Inflammation and Cancer Induced by Nonsteroidal Anti-Inflammatory Drugs. **Int J**

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Competitively funded Projects:

1. **PENED (1999-2002)** (*National Hellenic Research Foundation*). Research program on "Mechanism of interaction of selective steroid receptor modulators with AP-1", a competitive GSRT research network. Coordinator : V. Zoumpourlis (Budget **142 K€**)
2. **ENTER-01EP94: (2003-2007):** (*National Hellenic Research Foundation, Participant: Antisel SA*). "Role of MEF2 transcription factor in heart hypertrophy and cancer development". Coordinator: V. Zoumpourlis. (Budget **73.3 K€.**)
3. **Czech-Greek bilateral cooperation (2003-2005):** (*National Hellenic Research Foundation, Masaryk Memorial Cancer Institute Brno Czech, Participant: Antisel SA*). "Role of the p53 oncosuppressor gene in androgen-independent prostate cancer". Contributor: Prof B Vojtesek, Coordinator: V. Zoumpourlis (Budget **24 K€**)
4. **French-Greek bilateral cooperation (2004-2006):** (*National Hellenic Research Foundation, Institute Pasteur, Paris France, Participant: Antisel SA*). "Molecular mechanism for Androgen Receptor interaction with AP-1 in Prostate cancer". Contributor: Prof M Yaniv, Coordinator: V. Zoumpourlis (Budget **24 K€.**)
5. **USA - Greek bilateral cooperation (2005- 2008):** (*National Hellenic Research Foundation*). «Molecular dissection of the mechanism of Rho kinase in susceptibility to cancer progression and metastasis». Contributor: Prof A Balmain, Coordinator: V. Zoumpourlis (Budget **60 K€.**)
6. **EU project: TOK (2007-):** (*National Hellenic Research Foundation*). «Supramolecular chemistry and gene therapeutic potential of amine-amine-substituted cyclodextrin end- functionalized triazine dendrimers based on melamine" Contributor: V. Zoumpourlis, Coordinator: I Kostas (total Budget **332 K€**)

7. *Czech-Greek bilateral cooperation (2012-2014): (National Hellenic Research Foundation, Masaryk Memorial Cancer Institute Brno Czech). "The regulation of p73 gene and the role of TAp73 β isoform in lung cancer ". Contributor: Prof B Vojtesek , Coordinator: V. Zoumpourlis (Budget **15 K€**)*
8. *ESPA (2012-2014) Action: Support for New Business, Research & Technological Development (Bioellenica Biotechnology Company S.A, Thessaloniki, GR, National Hellenic Research Foundation). "The use of genetically modified adipose-derived MSC in cancer cytotherapy. Coordinator: Prof. G Koliakos, Contributor: V. Zoumpourlis (total budget 200 K€; for National Hellenic Research Foundation 50 K€). This is a translational research program using the genetic modification of mesenchymal stem cells for cancer cytotherapy, through a robust collaboration with NHRF's spin-off Stem Cell Bank TAK- EIE, as well as with Biohellenika Biotechnology Company S.A.*
9. Research in stem cells (2008-) (*National Hellenic Research Foundation, TAK EIE*). "Research of stem cells and their applications in cancer therapeutics". Coordinator: V. Zoumpourlis (total budget **200 K€**).
10. KRYPTIS (2013-2015). Targeted therapeutic approaches against degenerative diseases with emphasis on cancer and aging. (*National Hellenic Research Foundation, Institute of Biology, Medical Chemistry and Biotechnology*) Contributor: V. Zoumpourlis (total budget 1500 K€ for Biomedical Application Unit budget **50 K€**).
11. *Greek – Turkey bilateral cooperation (2013-2015): (National Hellenic Research Foundation, Bilkent University Department of Molecular Biology and Genetics). "Role of p73 and its miRNA targets in chemosensitivity of liver cancer ". Contributor: Prof Mehmet Öztürk, Coordinator: V. Zoumpourlis (total budget 130 K€ for Biomedical Application Unit Budget **30 K€**).*
12. Czech-Greek cooperation (2014-2016): (National Hellenic Research Foundation, Masaryk Memorial Cancer Institute Brno Czech). "Comparative studies of wtp53 versus mutant p53 in scid mice. ". Contributor: Prof B Vojtesek , Coordinator: V. Zoumpourlis (Budget **12 K€**)
13. IKY Fellowships of Excellence for Postgraduate Studies in Greece- Siemens Program. 2014-2016. Coordinator: Dr. V Zoumpourlis. Post-graduate research fellow: Dr. Stella Logotheti. Total budget: 40 K€. Lab budget: **40 K€**.
14. KRYPTIS B (2017-2020). Targeted therapeutic approaches against degenerative diseases with emphasis on cancer and aging. (National Hellenic Research Foundation, Institute of Biology, Medical Chemistry and Biotechnology) Contributor: V. Zoumpourlis (total budget 800 K€ for Biomedical Application Unit budget **22 K€**).
15. IKY Fellowships of Excellence for Postgraduate Studies in Greece- Siemens Program. 2016-2017. Coordinator: Dr. V Zoumpourlis. Post-graduate research fellow: Dr. Marina Devetzi. Total budget: 30 K€. Lab budget: **30 K€**.

16. ELIDEK Phd fellowship. 2017-2019. Coordinator: Dr. V Zoumpourlis. Phd fellow: Mrs Maria Goulielmaki. Total budget: **18 K€**.
17. IKY Fellowships of Excellence for PhD Studies in Greece- Siemens Program. 2018-2021. Coordinator: Dr. V Zoumpourlis. PhD research fellow: Stella Baliou. Total budget: 30 K€. Lab budget: **30 K€**.
18. (EATRIS-GR) (2018-2021) Infrastructure for preclinical and early-phase clinical development of drugs, therapeutics and biomedical devices. Contributor: V. Zoumpourlis (total budget 500 K€ for Biomedical Application Unit budget **30 K€**).
19. EPAnEK (2018-2021) IDENTIFICATION OF NEW PROGNOSTICS BIOMARKERS FOR PROSTATE CANCER. (National Hellenic Research Foundation, Institute Chemical Biology) Contributor: V. Zoumpourlis (total budget **624 K€** for Biomedical Application Unit budget **214 K€**).
20. EPAnEK (2020-2023) Determination of genomic and transcriptomic prognostic bio-signatures in head and neck cancer. (National Hellenic Research Foundation, Institute of Chemical Biology) Coordinator: V. Zoumpourlis (total budget **824 K€** for Biomedical Application Unit budget **248 K€**).