

PERSONAL INFORMATION

SURNAME	PANAGOPOULOU PANTAZI
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RESEARCH INTEREST

Maria Panagopoulou is a postdoctoral researcher in Laboratory of Pharmacology at the Medical School of the Democritus University of Thrace. Throughout her research activity she established scientific methodologies for analysing circulating biomarkers in several pathologies, especially in cancer. She has significant experience in molecular biology techniques. Her main research interests focus on identifying new biomarkers via machine learning and bioinformatic analysis and further evaluate them in clinical samples (tissue and liquid biopsy) for investigating their value for the clinical management of diseases. Her current research focus is the investigation of circulating cell free DNA in breast cancer in terms of quantity, integrity, structure and methylation profile and correlated them with important clinical parameters in order to establish novel multiparametric sensitive and specific biomarkers for breast cancer

CURRENT POSITION

2019 -Present	Postdoctoral Researcher in the Lab of Pharmacology, MED-DUTH. Research: «Circulating cell free DNA: Different approaches for Liquid Biopsy analysis for the development of classifiers with clinical value on pharmacotherapy of cancer», PI: Ekaterini Alexiou-Chatzaki, participation in projects listed in research grant Table 1(no 2,3)
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PREVIOUS POSITIONS

05.2019-08.2019	Researcher/ Molecular markers in gastric cancer/ PI: Stylianos Kakolyris, Oncolog Clinic, University General Hospital of Alexandroupolis, Greece (UGHA).
2014-2019	Medical Laboratory Scientific Officer (MLSO)/ Clinical drug monitoring and toxicological measurements (voluntary)/PI: Vangelis Manolopoulos, Laboratory of Clinical Pharmacology, UGHA.
05.2017-07.2019	PhD candidate/ Investigation of the predictive and prognostic value of epigenetic biomarkers in breast cancer and other gynecological malignancies/S.S.F (I.K.Y) foundation, "Programm for doctorate scholarships for postgraduate studies of the second-cycle (PhD)
05.2016-07.2017	Researcher/ Epigenetic biomarkers in plasma cell-free DNA of patients with breast cancer/PI: Stylianos Kakolyris/Oncology Clinic, UGHA.
01.2016-04.2016	Researcher/BioEpi: "Detection and characterization of epigenetic biomarkers"/ PI: Ekaterini Alexiou-Chatzaki, Laboratory of Pharmacology, Department of Medicine, Democritus University of Thrace, Greece (MED-DUTH).
06.2014-10.2015	Researcher/BioPest: "Harmful Impacts of Plant Protection Products: Specialized biomarkers in the Public Health service and Information Campaign"/PI: Ekaterini Alexiou-Chatzaki/Lab of Pharmacology, MED-DUTH
2012-2014	Researcher/ The effect of fibrotic agents on the intestinal mucosa as a target of therapeutic strategies in Crohn's disease / P.I:George Kolios/Lab of Pharmacology MED-DUTH
09.2013-02.2014	MLSO/ Microbiological - Biopathological laboratory, Alexandroupolis, Greece
01.2012-07.2012	MLSO/ Clinical Embryology (voluntary)/P.I: George Galazios/ IVF unit, UGHA
2010	Research assistant/ Intersip on isolation and characterization of granulosa cells/ P.I:Vyron Asimakopoulos/ Laboratory of Reproductive Biology, MED-DUTH.

EDUCATION

- 2014-2019** **PhD**, Lab of Pharmacology, MED-DUTH
Thesis: «Investigation of the predictive and prognostic value of epigenetic biomarkers in breast cancer and other gynecological malignancies», Degree:10/10
- 2012-2014** **M.Sc in "Clinical Pharmacology and Therapeutics"**, MED-DUTH, Greece
Thesis: «The effect of fibrotic agents on the intestinal mucosa as a target of therapeutic strategies in Crohn's disease», Degree:10/10
- 2006-2011** **Integrated Master's degree in Biology** (5 years education), Department of Biological Applications and Technologies, School of Health Science, University of Ioannina, Greece, Degree:6.97/10,
Thesis: "Cryopreservation of oocytes and embryos by the method of vitrification", Degree:10/10

SELECTED PUBLICATIONS

- Circulating Cell-Free DNA in Breast Cancer: Searching for Hidden Information towards Precision Medicine, **M. Panagopoulou**, M. Esteller, E. Chatzaki, *Cancers (Basel)*, 13, 2021, doi:0.3390/cancers 13040728 **I.F:6.126**
 - Circulating cell free DNA in Breast cancer: size profiling, levels and methylation patterns lead to prognostic and predictive classifiers, **M. Panagopoulou**, M. Karaglani, I. Balgkouranidou, E. Bizioti, T. Koukaki, E. Karamitrousis, E., Nena, I. Tsamardinos, G. Kolios, E. Lianidou, S. Kakolyris, E. Chatzaki, *Oncogene*,38,3387-3401,2019, doi:10.1038/s41388-018-0660-y **I.F:7.971**
 - Circulating cell free DNA release in vitro: kinetics, size-profiling and cancer-related gene methylation, **M. Panagopoulou**, M. Karaglani, I. Balgkouranidou, C. Pantazi, G. Kolios, S. Kakolyris, E. Chatzaki, *J Cell Physiol*, 234, 14079-14089,2019, doi:10.1002/jcp.28097 **I.F:5.546**
 - Deciphering the methylation landscape in Breast cancer: diagnostic and prognostic biosignatures through Automated Machine Learning, **Panagopoulou, M***, M. Karaglani*, V. G. Manolopoulos, I. Iliopoulos and E. Chatzaki, *Cancers* **2021**, 13(7), 1677; **I.F:6.126**
 - Methylation status of Corticotropin Releasing Factor (CRF) Receptor genes in colorectal cancer, **Panagopoulou, M.**, A. Cheretaki, M. Karaglani, I. Balgkouranidou, E. Bizioti, K. Amarantidis, N. Xenidis, S. Kakolyris, S. Baritaki and E. Chatzaki, *Cancers(Basel)*,2021, under revision **I.F:6.126**
 - Gene promoter methylation and protein expression of BRMS1 in uterine cervix in relation to highrisk HPV infection and cancer, **Panagopoulou M.**, Lambropoulou M., Balgkouranidou I., Nena E., Karaglani M., Nicolaidou C.,Asimaki M., Agorastos T., Constantinidis Theoc., Constantinidis TC., Kolios G., Kakolyris S., Chatzaki E., *Tumour Biol*, 39, 1010-4283,2017, doi:10.1177/1010428317697557 **I.F:3.320**
 - Corticotropin Releasing Factor Receptors in breast cancer: Expression and activity in hormone-dependent growth in vitro, Koureta, M., **Panagopoulou***, M., Karaglani*, M., Balgkouranidou, I., Papadaki-Anastasopoulou, A., Zarouchlioti, C., Dekavallas, S., Kolios, G., Lambropoulou, M., Baritaki, S.,Chatzaki E, *Peptides*, 129, 170316, 2020,doi:10.1016/j.peptides.2020.170316 **I.F:2.843**
 - Are the Origins of Precision Medicine Found in the Corpus Hippocraticum? M. K. Konstantinidou, **M. Karaglani**, M. Panagopoulou, A. Fiska, E. Chatzaki, *Mol Diagn Ther* 21(6): 601-606 2017, doi:10.1007/s40291-017-0291-y **IF: 3.180**
 - PAX1 methylation as an auxiliary biomarker for cervical cancer screening: a meta-analysis, Nikolaidis C., Nena E., **Panagopoulou M.**, Balgkouranidou I., Karaglani M., Chatzaki E., AgorastosT., Constantinidis TC, *Cancer Epidemiol*, 39, 682-6,2015,doi:10.1016/j.canep.2015.07.008 **I.F:2.17**
 - Search for Pharmacoeepigenetic Correlations in Type 2 Diabetes Under Sulfonylurea Treatment, Makrina Karaglani, Georgia Ragia, **Maria Panagopoulou**, Ioanna Balgkouranidou, Evangelia Nena, George Kolios, Nikolaos Papanas, Vangelis G. Manolopoulos, Ekaterini Chatzaki, *Exp Clin Endocrinol Diabetes*,127, 226-233,2018,doi:10.1055/s-0043-121265 **IF:2.058**
 - Evaluation of a New Vitrification Protocol for Oocyte Cryopreservation, **Panagopoulou M.**, Charalabopoulos K., Papachristou DN., Tsakos E., Asimakopoulos B.,*Human Genet Embryol*,3:1,2013doi:10.4172/2161-0436.1000103 **I.F:1.040**
- Publications:13 (1st author in 8 articles), Citations (Scopus):123, h-index (Scopus):6, sum I.F:40.92,**

SELECTED CONFERENCES (OUT OF 31 PARTICIPATIONS)

- 17th St. Gallen International Breast Cancer Conference 2021, 17 – 21 March 2021, Switzerland, **Poster presentation**
- 16th Panhellenic conference of clinical chemistry, 11 - 13 October 2018, Alexandroupoli, Greece, **Oral presentation**
- 10th Panhellenic conference of Greek Society of Basic and Clinical Pharmacology, 25-27 May 2018, Ioannina, Greece, **Oral presentation**
- 1st Panhellenic Simeonidio Congress for cancer research, 19-20 January 2018, Thessaloniki, Greece, **Oral presentation**
- 8th Panhellenic conference of Greek HPV society, 23-25 February 2018, Thessaloniki, Greece, **Oral presentation**
- 3rd International Symposium ACTC, 4-7 October, 2017, Rhode, Greece, **Poster presentation**
- Epigenomics & Novel Therapeutic Targets, 21- 22 May 2015, Boston, **Poster presentation.**

FELLOWSHIP & AWARDS

2020-2021	Fellowship, NSRF 2014-2020 Support for Researchers with Emphasis on Young, Greece
2017-2019	Fellowship, S.S.F (I.K.Y), "Programm for doctorate scholarships for postgraduate studies of the second-cycle (PhD)
2018	2 nd best award, 16th Panhellenic conference of clinical chemistry
2018	2 nd best award, 8th Panhellenic conference of Greek HPV society
2016	Distinction, 9th Panhellenic Congress of Pharmacology
2016	Award, 4th International conference ASET'16, Thailand
2014	Best Online Announcement Award, 13th Panhellenic Conference on IBDs

TEACHING ACTIVITIES

2015-Present Teaching assistant, Pharmacology I & II laboratory lessons

MEMBERSHIPS & REVIEWING ACTIVITIES

2019-2021	<u>Reviewing</u> for the journals: Cancer Management and Research, Archives of Environmental and Occupational Health, European Journal of Gynaecological Oncology
2012-Present	<u>Member</u> , Panhellenic Society of Bioscientists
2015	<u>Conference organization</u> , 3 workshops and one conference on "Pesticides: Use and Health"

LIST OF RESEARCH GRANTS

A/A	Project Title	Funding source	Period	Role of the PI
1	Liquid Pancreas: A diagnostic liquid biopsy tool for the personalized management of type 2 diabetes.	"Research- Create - Innovate" (2nd Cycle), EPAnEK	03.2021-present	research
2	Structure, origin, and function of cell-free DNA: the hidden information towards precision pharmacotherapy	Hellenic Foundation for Research and Innovation under the "1st Call for H.F.R.I. Research Projects to support Faculty Members & Researchers and the Procurement of High-and the procurement of high-cost research equipment grant"	03.2020-present	Postdoc research
3	DNA methylation as a minimally-invasive biomarker: development and validation of classifiers with prognostic and/or predictive clinical value in breast cancer therapy	Operational Programme Human Resources Development, Education and Lifelong Learning 2014-2020	03.2020-05.2021	Postdoc research

4	Investigation of the predictive and prognostic value of epigenetic biomarkers in breast cancer and other gynecological malignancies	State Scholarship Foundation in Greece S.S.F (I.K.Y) “Human Resources Development—Education and Lifelong Learning”, PA 2014-2020.	05.2017-07.2019	PhD research
5	Detection of epigenetic biomarkers in plasma cell-free DNA of patients with breast cancer	DUTH Special Account (Research project sponsored by Pharmaceutical companies)	05.2016-07.2017	research
6	Research on the prognostic role of different molecular markers in gastric cancer	DUTH Special Account (Research project sponsored by Pharmaceutical companies)	05.2019-08.2019	research
7	Biopest «Harmful Impacts of Plant Protection Products: Specialized biomarkers in the Public Health service and Information Campaign»	Human Resource Development 2007-2013, Defending the Public Health of the Population, PA 13: "Consolidation of Reform in the Mental Health Sector. Developing Primary Health Care, Promoting Public Health in the 8 Convergence Regions	06.2014-10.2015	research
8	Bioepi «Detection and characterization of epigenetic biomarkers»	DUTH Special Account (Research project sponsored by Pharmaceutical companies)	01.2016-04.2016	research