



Short Curriculum Vitae: Ioanna Maroulakou, Ph.D.

<i>Current Position:</i>	Professor of Genetics at the Department of Molecular Biology and Genetics (MBG) Director of Laboratory Genetics & Genomics of Cancer and Chronic Diseases at MBG, DUTH
<i>Education/ Training:</i>	1984 B.Sc. in Biology, University of Athens, Athens Greece 1990 Ph.D in Biology, University of Athens, Athens Greece 1991-1996: Postdoc in Molecular Oncology, National Cancer Institute, NIH, USA
<i>Positions & Honors:</i>	1984-1990: Graduate Student, Laboratory of Biology, School of Health Sciences, University of Athens, Athens, Greece 1988 Guest Investigator Fellowship, Laboratory of Cell Biology, Rockefeller University, New York, USA 1991-1996: Post-doctoral Fellow, Laboratory of Molecular Oncology, National Cancer Institute, USA 1991-1996: Post-doctoral Fellow, Laboratory of Molecular Oncology, National Cancer Institute, USA 1996-2003: Assistant Professor, Dept. of Medicine, Medical University of South Carolina, Charleston, USA 2003-2009: Assistant Professor, Dept. of Medicine, Tufts University School of Medicine, Boston, USA 2003-2009: Investigator, Molecular Oncology Research Institute, Tufts. NEMC, Boston, USA 2009: Associate Professor, Dept. of Pharmacology and Toxicology, Cancer Institute, UMMC, Jackson, USA 2010-today: Professor of Genetics, Dept. of Molecular Biology and Genetics (MBG), Democritus University of Thrace, (DUTH)
<i>Research Interest</i>	-Genetically engineered animal models of human disease. -Mechanisms of cancer development and progression. -Tumor dormancy and recurrence. -Effects of Cancer Drugs in Brain & Behavior -Biomarkers, in the early phase and the evolutionary stages of Alzheimer's disease -Epigenetic dysregulation in Alzheimer's disease -Novel genetically engineered mouse model systems, ex vivo cultures of organoids and tissue. -Genomics and computational biology.
<i>Professional Activities: Positions & Honors</i>	2013-2014 Deputy Chair of the Department of MBG, DUTH, 2013- 2018 Director of the MscProgramme “ <i>Translational Research in Biomedicine</i> ” at MBG 2018- 2021 President of the Research Ethics Committee at DUTH



2010-2020 Director of Laboratory “Population Genetics and Evolution” at MBG

2020- today: Director of Laboratory “Genetics & Genomics of Cancer and Chronic Diseases” at MBG

**Honors
&
Awards**

9/86-9/90 National Graduate Fellowship, University of Athens, Greece

9/87 Grant from European Training Programme (ETP) in Italy

6/88-12/88 Guest Investigator Fellowship, Laboratory of Cell Biology, Rockefeller University, USA

6/91-6/93 Fogarty Fellowship, Laboratory of Molecular Oncology, National Cancer Institute (NCI), NIH, USA

6/93-5/96 Renewal of Fogarty Fellowship, Laboratory of Molecular Oncology, NCI, NIH, USA

**Professional
Memberships
&
Bibliometric data**

Member, American Association for Cancer Research

Member, American Association for the Advancement of Science

Member, *European Association for Cancer Research*

Member, Hellenic Association of Medical Geneticists

Supervisor in 8 Ph.D. theses, 17 M.Sc. theses, 35 B.Sc. theses,

Advisory committee member in 11 Ph.D. theses

>60 abstracts in international and national conferences

38 publications in peer-reviewed international journals,

>3756 citations (Scholar), h-index 27(Scholar) (12/2025)

Funding

Selected recent funded projects:

1. 2020-2023: €3.000.000, GSRT, InTechThrace: Integrated Technologies in biomedical research: multilevel biomarker analysis in Thrace” Role: Investigator-PI for DUTH infrastructure Infrafrontier/Phenotypos-GR
2. 2017-2020: €200.000, GSRT, Programme for Infrastructure: Infrafrontier/Phenotypos-GR, Role: PI for DUTH
3. 2019-2022: €33.000, GSRT, Programme for Infrastructure: EATRIS-GR, Role: PI for DUTH

Publications

**Representative
publications**

Her scientific contributions are documented in numerous peer-reviewed publications, which are publicly accessible via Google Scholar.

GoogleScholar: <https://scholar.google.com/citations?user=sgSvkeoAAAAJ>

Publications (selected) :

-
- Talli I, Dovrolis N, Oulas A, Stavrakaki S, Makedou K, Spyrou GM, **Maroulakou I**. Novel clinical, molecular and bioinformatics insights into the genetic background of autism. *Hum Genomics*. 2022 Sep 18;16(1):39.
- Dovrolis N, Nikou M, Gkrouzoudi A, Dimitriadis N, **Maroulakou I**. Unlocking the Memory Component of Alzheimer's Disease: Biological Processes and Pathways across Brain Regions. *Biomolecules*. 2022 Feb 6;12(2):263.
- Dovrolis N, Kolios G, Spyrou GM, **Maroulakou I**. Computational profiling of the gut-brain axis: microflora dysbiosis insights to neurological disorders. *Brief Bioinform*. 2019 May 21;20(3):825-841.
- Dovrolis N, Kolios G, Spyrou G, **Maroulakou I**. Laying in silico pipelines for drug repositioning: a paradigm in ensemble analysis for neurodegenerative diseases. *Drug Discov Today*. 2017 May;22(5):805-813.
- Iliopoulos D, Polytarchou C, Hatziapostolou M, Kottakis F, **Maroulakou IG**, Struhl K, Tsihchlis PN. MicroRNAs differentially regulated by Akt isoforms control EMT and stem cell renewal in cancer cells. *Science Signal*. 2009 Oct 13;2(92):ra62.
- Maroulakou IG**, Oemler W, Naber SP, Tsihchlis PN. Akt1 ablation inhibits, whereas Akt2 ablation accelerates, the development of mammary adenocarcinomas in Mouse Mammary Tumor Virus (MMTV)-ErbB2/Neu and PolyomaMiddle T mice. *Cancer Res* 2007; 67(1): 167-77(Corresponding Author). *Highlighted in the front page of "Cancer Research" as selected article from the January 1, 2007 issue.*
- Bowe, D. B., Kenney, N. J., Adereth Y. and **Maroulakou, I. G.**: Suppression of her2/neu mammary tumor growth in Cyclin D1-deficient mice is compensated for by cyclin E. *Oncogene*, 21:291-298, 2002 (corresponding author). *Highlighted in The New England Journal of Medicine, section Clinical Implications of Basic Research, entitled "The Reciprocal Dance between Cancer and Development" by Lewis A. Chodosh. 2002.Vol.347 (2):134-136.*
- Maroulakou, IG.**, Papas, TS., and Green, JE: Differential expression of ets-1 and ets-2 protooncogenes during murine embryogenesis. *Oncogene* 9: 1551-1565, 1994.
- Maroulakou, I. G.**, Anver, M., Garrett, L., and Green, J. E.: Prostate and breast cancer in transgenic mice carrying a rat C3(1) SV40 TAG fusion gene. *Proc. Natl. Acad. Sci. USA* 91: 11236-11240, 1994.
-