

Marianthi Logotheti

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PhD in Biomedicine

Member of Technical Chamber of Greece

RESEARCH ACTIVITIES

- 01/2020 – today** Fellowship from State Scholarships Foundation IKY: postdoctoral researcher of National Technical University of Athens (post-doctoral research title: “Study of the microbiome in the blood of patients with schizophrenia”)
- 04/2019 – 12/2019** Researcher/Teacher for BioS: “Digital Skills on Computational Biology” in the European Framework of Erasmus+ / Sector Skills Alliances Program aiming at advancing the digital skills of medical doctors through the design, development and delivery of new modular vocational curricula on Computational Biology
- 01/2019 – today** OMIC_Synthetic Biology: From Omics Technologies to Genomic Engineering: Researcher in the field of Metabolic Engineering
- 01/2018 – 06/2018** PAMELA project: Bioinformatician (Prioritization and pathway Analysis by MachinE LeArning/ Applied in Congenital Heart Defects) – Innovation voucher funded by the European Union (PERMIDES, H2020-INNOSUP-2015-1).
- 07/2018 – 08/2018** Research program INNOCENT: Researcher in the field of Genomics (Innovative Nanopharmaceuticals: Targeting Breast Cancer Stem Cells by a Novel Combination of Epigenetic and Anticancer Drugs with Gene Therapy)
- 06/2017 – 08/2017** Research program INNOCENT: Researcher in the field of Genomics (Innovative Nanopharmaceuticals: Targeting Breast Cancer Stem Cells by a Novel Combination of Epigenetic and Anticancer Drugs with Gene Therapy)
- 02/2017 – today** Enios Applications IKE: R&D Engineer
- 11/2014 – 03/2015** Research program POM: Research Assistant/ Bioinformatician (PIK3CA Oncogenic Mutations in Breast and Colon Cancers: Development of Targeted Anticancer Drugs and Diagnostics).
- 01/2014 – 06/2015** Research program SIMPLE: Researcher in the field of Metabolic Engineering/ Biofuels (Sustainable Integrated Method for the Production of Lignocellulosic Ethanol project).
- 06/2011 – 12/2016** Research assistant in the Laboratory of Metabolic Engineering and Bioinformatics at the Institute of Biology, Medicinal Chemistry and Biotechnology in National Hellenic Research Foundation.
- 09/2010 – 04/2011** Research assistant in the Laboratory of Enzyme and Synthetic Biotechnology at the Institute of Biological Research and Biotechnology of the National Hellenic

Research Foundation.

07/2008 – 08/2008

Pepsico-Ivi: Internship, Department of Quality Control and Safety.

04/2007

Participation in research program of NTUA: managing the quality system of the network of the gas stations of Revoil.

EDUCATION

05/2012 – 12/2016

**PhD in Medical Science with a specialization in Biomedicine.
Örebro University, Sweden**

Thesis: Integration of Functional Genomics and Data Mining Methodologies in the Study of Bipolar Disorder and Schizophrenia.

09/2004 – 09/2010

Chemical Engineer

National Technical University of Athens

Direction: Food Science-Biotechnology

Thesis: Preservation of sliced toast bread using natural antimicrobials, in the Laboratory of Food Chemistry and Technology, School of Chemical Engineering

09/1998 – 06/2004

Varvakeio High School, Athens

SKILLS

Languages

Greek – Native

English – Fluent (C2 Certificate of Proficiency University of Michigan, C2 Certificate of Proficiency University of Cambridge).

German – Fluent (C2 Kleines Deutsches Sprachdiplom, Goethe Institut).

Bioinformatics expertise

R, Matlab, Python, Next Generation Sequencing data analysis and interpretation, development of workflows for genomic analyses, Metabolic modeling

Molecular Biology Techniques

Expertise in Molecular Biology techniques such as Polymerase Chain Reaction, DNA and RNA isolation, cell culturing.

Authorship

Scientific articles, successful proposals for scientific programs.

Fuels

Quality Control

Food science

Quality control, Organoleptic analysis

PUBLICATIONS

03/2019

Logotheti M, Chatziioannou A, Venizelos, Kollis F (2019) Recent Advancements in Bipolar Disorder studies through Genomic, Epigenomic and Metagenomic Approaches. J Psychiatry Psychol Res, 2(1): 56-66.

01/2018

Lhomond S, Avril T, Dejeans N, Voutetakis K, Doultisinos D, McMahon M, Pineau R, Obacz J, Papadodima O, Jouan F, Bourien H, Logotheti M, Jégou G, Pallares-Lupon N, A, Patterson J, Pluquet O, Hetz C, Quillien V, Chatziioannou A, Chevet E (2018) Dual IRE1 RNase functions dictate glioblastoma development. EMBO molecular medicine, e7929

11/2016

Logotheti M, Pilalis E, Venizelos N, Kollis F, Chatziioannou A (2016) Development

and validation of a skin fibroblast biomarker profile for schizophrenic patients. AIMS Bioengineering 3(4): 552-565.

- 09/2016 Logotheti M, Pilalis E, Venizelos N, Kolisis F, Chatziioannou A (2016) Studying Microarray Gene Expression Data of Schizophrenic Patients for Derivation of a Diagnostic Signature through the Aid of Machine Learning. Biometrics & Biostatistics International Journal 4(5): 00106.
- 11/2013 Logotheti M, Papadodima O, Venizelos N, Chatziioannou A, Kolisis F (2013) A Comparative Genomic Study in Schizophrenic and in Bipolar Disorder Patients, Based on Microarray Expression Profiling Meta-Analysis. The Scientific World Journal 2013: 14.
- 11/2015 Logotheti M, Papadodima O, Chatziioannou A, Venizelos N, Kolisis F (2015) Gene Expression Analysis of Fibroblasts from Patients with Bipolar Disorder. Journal of Neuropsychopharmacology & Mental Health 1: 103.
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PARTICIPATION IN CONFERENCES

- 05/2019 12th Panhellenic Conference of Chemical Engineering, 29-31 May 2019, Athens, Greece (poster presentation with title: "Metabolomic analysis of the thermostable bacteria *Geobacillus kaustophilus* aiming at the construction of a thermostable chassis")
- 09/2018 17th European Conference on Computational Biology, 8-12 September 2018, Athens, Greece
- 06/2018 Empowering Personalized Medicine through Digital Solutions-PERMIDES Conference 2018 (oral presentation with title: "Prioritization and pathway analysis by machine learning")
- 10/2016 16th Annual Meeting of the ICGP & 5th International Congress on Psychiatry and the Neurosciences, Athens, Greece (poster presentation with title: "Development and validation of a skin fibroblast biomarker profile for schizophrenic patients")
- 06/2015 12th World Congress of Biological Psychiatry, 14 - 18 June 2015, Athens, Greece (poster presentation with title: "Gene Expression Analysis of Fibroblasts from Patients with Bipolar Disorder")
- 04/2015 6th Mikrobiokosmos Conference 2015, New Horizons in the Micro World, Athens, Greece (poster presentation with title: "Metabolic engineering of *Zymomonas mobilis* through *in silico* methods aiming at improved ethanol production")
- 11/2014 2nd Joint International Psychiatric Congress, Athens, Greece (poster presentation with title: "Computational system analysis of tyrosine metabolic pathway in fibroblast cells as a tool for studying the biochemical background of mental diseases")
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12/2013	64th National Congress of Biochemistry and Molecular Biology, Eugenides Foundation, Athens, Greece (poster presentation with title: "Dynamic miRNA profiling of BMP4 induced osteogenesis in bone marrow mesenchymal stem cells")
05/2013	"Training the Next Generation of scientists in Metagenomics", a training event/workshop. HotZyme Project, Athens, Greece
12/2012	Congress event consisting of the World Psychiatric Association Thematic Conference on Intersectional Collaboration: "The Multidisciplinary Facets of Psychiatry," the "4th European Congress of the International Neuropsychiatric Association: Overlap and Integration in Neuropsychiatry" and the "First Interdisciplinary Congress on Psychiatry and Related Sciences", Athens, Greece (poster presentation with title: "A comparative genomic study in schizophrenic and in bipolar disorder patients based on microarray expression profiling meta-analysis")
11/2012	Gene regulation: from DNA sequence to nuclear structure, Eugenides Foundation, Athens, Greece (poster presentation with title: "Integration of gene expression alterations in schizophrenic and bipolar disorder patients in relation to the transport biochemical mechanisms of the cell")
10/2012	5th Life Sciences Research Conference: 'From new disease biomarkers and target identification to development of novel therapeutics', National Hellenic Research Foundation, Örebro University, Athens, Greece
07/2012	6th International Summer School on Emerging Technologies in Biomedicine, "Bioinformatics and Systems Biology Approaches for the Analysis of Complex Biological Networks", Patras, Greece
11/2011	1st International Forum, Life Sciences & Cancer; from prevention to treatment, Hellenic Society of Oncology, Athens, Greece
10/2011	4th Swedish-Hellenic Life sciences conference and course on Systems Biology, National Hellenic Research Foundation, Örebro University, Athens, Greece
