

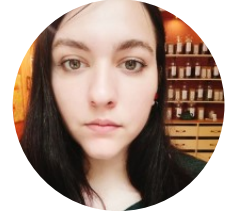
MARIA BOUSALI

Biologist, Bioinformatician - Computational Biologist

ORCID: 0000-0002-2829-1642   

 mbousali@pasteur.gr  mbousali@med.uoa.gr

 10/04/1995  Citizenship: Greek



EDUCATION

Ph.D. Candidate in Genomics - Bioinformatics Medical School, University of Athens (UoA) Unit of Bioinformatics & Applied Genomics, Hellenic Pasteur Institute	09/2021 – Today Athens, GR
MSc Epidemiology - Research Methodology - Public Health Medical School, UoA Grade: 9.26/10, "Excellent" («ΑΡΙΣΤΑ»)	09/2021 – 03/2024 Athens, GR
MSc Bioinformatics - Computational Biology Biology Department, School of Sciences, UoA	10/2018 – 09/2020 Athens, GR Grade: 9.03/10, "Excellent" («ΑΡΙΣΤΑ»)
Biology Degree Biology Department, School of Sciences, UoA	09/2013 – 09/2018 Athens, GR Grade: 7.03/10, "Very Good" («ΛΙΑΝ ΚΑΛΩΣ»)

RESEARCH EXPERIENCE

Hellenic Pasteur Institute Early Stage Researcher/PhD Candidate (Bioinformatics & Applied Genomics Unit) <ul style="list-style-type: none">Investigating the degree of contribution of hepatitis B viral (HBV) integration sites to the development of chronic hepatitis and hepatocellular carcinoma through NGS and bioinformatics approachesDevelopment of bioinformatic algorithms for viral integrations identification from multi-omics datasetsDevelopment of machine learning algorithms to identify genomic patterns and genomic variation signaturesDevelopment of metagenomics pipelinesAlgorithms development for the identification of Molecular Transmission Clusters (MTCs) from phylogenetic treesPhylogenomic, phylodynamic and phylogeographic analysis in HBV, SARS-CoV-2 and HIV molecular data	09/2020 – Today Athens, GR
NCSR "Demokritos" Molecular Biologist in the Research & Development Department (R&D) (Nanoplasmas Spin-off Company) <ul style="list-style-type: none">Development of a lab-on-chip molecular diagnostics for SARS-COV-2 for Point-of-Care use	09/2020 – 04/2021 Athens, GR
Hellenic Pasteur Institute Research Fellow (Bioinformatics & Applied Genomics Unit) <ul style="list-style-type: none">Development of bioinformatic algorithms for the analysis of retrotransposable elements - with emphasis on endogenous retroviruses (ERVs) - in the human genomeAnalysis of the distribution of HERVs integrations in autoimmune disease and cancer patient genomes using Whole Genome Sequencing (WGS) data obtained from genome databases	06/2019 – 09/2020 Athens, GR
Biology Department, School of Sciences, UoA Undergraduate Research (Section of Genetics Biotechnology) <ul style="list-style-type: none">Wet-lab protocols development for the genetic transformation of fungiConstruction of genetically recombinant bacterial plasmids through molecular approaches	06/2016 – 09/2018 Athens, GR

LANGUAGE SKILLS

English (C2) 
French (B2) 

TEXT & IMAGE ANALYSIS SKILLS

MS Office, LibreOffice 
Latex 
Adobe PhotoShop, Inkscape 

PROGRAMMING SKILLS

R 
Unix-Bash 
C, C++, SQL 
HTML5, JS, Perl 
Python, Matlab 
Git 
Nextflow 
Java 