Panagiotis Agioutantis

Date of birth: 25/07/1989 | **Nationality:** Greek | **Gender** Male | (+30) 6946999528 |

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EDUCATION AND TRAINING

07/2015 – CURRENT – Athens, Greece
PH.D. IN ENGINEERING – National Technical University of Athens, School of Chemical Engineering

Research Interest: Computational Cancer Biology
Thesis Title: Bioinformatic analysis of systems biology data towards the investigation of underlying molecular traits, chemoprevention and therapy strategies in human hepatocellular carcinoma
Advisor: Prof. Emeritus Fragiskos N. Kolisis in collaboration with Dr. Heleni Loutrari

EQF level 8

11/2014 – 07/2017 – Athens, Greece
MASTER OF SCIENCE (M.SC.) IN MOLECULAR MEDICINE (9.47/10.00) – National and Kapodistrian University of Athens, Faculty of Medicine

Specialization: Functional Genomics and Proteomics
M.Sc. Thesis: A meta-analytic approach for the transcriptomic and proteomic profiling of hepatocellular carcinoma cell lines (10.00/10.00).
EQF level 7

09/2007 – 09/2014 – Athens, Greece
DIPLOMA IN CHEMICAL ENGINEERING (7.35/10.00) – National Technical University of Athens, School of Chemical Engineering

Specialization: Biotechnology
Diploma Thesis: A GALAXY workflow for taxonomic and functional analysis of metagenomic data (10.00/10.00).

EQF level 7 | 5-year Diplomas from NTUA are equivalent to Master of Engineering (M.Eng.) degrees.

WORK EXPERIENCE

10/2016 – CURRENT – Athens, Greece
RESEARCHER – NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

Research Project: "Identification of natural inhibitors of human hepatocellular carcinomas using a systems biology approach"
Group Leader: Heleni Loutrari, Ph.D.

"G.P. Livanos" Laboratory, A' Critical Care Department, Evangelismos Hospital | Athens, Greece

04/2018 – 03/2020 – Athens, Greece
RESEARCHER – NATIONAL TECHNICAL UNIVERSITY OF ATHENS

Project: "Synthetic Biology: From omics technologies to genomic engineering (OMIC-ENGINE)"

School of Chemical Engineering | Athens, Greece

11/2015 – 06/2019 – Athens, Greece
TEACHING ASSISTANT – NATIONAL TECHNICAL UNIVERSITY OF ATHENS

Courses:
Applied Biotechnology/Bioengineering (9th Semester)

Biotechnology and Environment/Industrial Biotechnology (8th Semester)

Biotechnology Laboratory, School of Chemical Engineering ｜ Athens, Greece

11/2014 – 03/2015 – Athens, Greece
POSTGRADUATE STUDENT – BIOMEDICAL RESEARCH FOUNDATION OF THE ACADEMY OF ATHENS (BRFAA)

Research Activity: "Bioenergetic diversity of the human gut microbiome"

Division of Bioinformatics and Medical Informatics ｜ Athens, Greece

10/2011 – 12/2011 – Athens, Greece
INTERNSHIP – PUBLIC POWER CORPORATION S.A.

Laboratory Activity: Laboratory Tests and Technical Analysis

Testing, Research & Standards Center ｜ Athens, Greece

LANGUAGE SKILLS

Mother tongue(s): GREEK

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B2	B2	B2	B2	B2
SPANISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Peer-reviewed Publications

A1. Agioutantis PC, Koumandou VL: **Bioenergetic diversity of the human gut microbiome.** MetaGene **2018**, 16:10-14. **Impact Factor** (2019): NA
A2. Agioutantis PC, Kotsikoris V, Kolisis FN, Loutrari H: **RNA-seq data analysis of stimulated hepatocellular carcinoma cells treated with epigallocatechin gallate and fisetin reveals target genes and action mechanisms.** Computational and Structural Biotechnology Journal **2020**, 18:686-695. **Impact Factor** (2019): 6.018
A3. Agioutantis PC, Loutrari H, Kolisis FN: **Computational Analysis of Transcriptomic and Proteomic Data for Deciphering Molecular Heterogeneity and Drug Responsiveness in Model Human Hepatocellular Carcinoma Cell Lines.** Genes **2020**, *11*(6), 623. **Impact Factor** (2019): 3.759
A4. Magkouta SF, Pappas AP, Vaitsi PC, Agioutantis PC, Pateras IS, Moschos CA, Iliopoulou MP, Kosti CN, Loutrari HV, Gorgoulis VG, Kalomenidis IT: **MTH1 favors mesothelioma progression and mediates paracrine rescue of bystander endothelium from oxidative damage.** JCI Insight **2020**, 5(12):e134885. **Impact Factor** (2019): 6.205

ORAL PRESENTATIONS

Oral Presentations

B1. «**Bioenergetic diversity of the human gut microbiome**», Panagiotis Agioutantis and Vassiliki Lila Koumandou, 10th Conference of the Hellenic Society for Computational Biology and Bioinformatics, 9-11 October 2015, Biomedical Research Foundation, Academy of Athens (BRFAA), Greece.
B2. «**Bioenergetic diversity of the human gut microbiome**», Panagiotis Agioutantis and Vassiliki Lila Koumandou, 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 11-13 December 2015, Eugenides Foundation, Athens, Greece.

POSTER PRESENTATIONS

Poster Presentations

C1. «**RNA-seq data analysis reveals target genes and mechanisms of epigallocatechin gallate and fisetin on stimulated human hepatocellular carcinoma cells**», Panagiotis Agioutantis, Vasilios Kotsikoris, Fragiskos N. Kolisis and Heleni Loutrari, Hellenic Bioinformatics 11 (2018 - ISCB affiliated), 15-18 November 2018, Thessaloniki Concert Hall, Greece

C2. « **Hellenic bioinformatics portal for synthetic biology -omics data**», Euthymios Ladoukakis, Panagiotis Agioutantis, Marianthi Logotheti, Dimitris Kekos and Fragiskos N. Kolisis, 12th Panhellenic Chemical Engineering Conference , 29-31 May 2019, Eugenides Foundation, Athens, Greece

C3. «**Integrated bioinformatic analysis of -omics data reveals differentiation status of human hepatocellular carcinoma cell lines in association with drug-specific sensitivity**», Panagiotis Agioutantis, Heleni Loutrari and Fragiskos N. Kolisis, ISMB/ECCB 2019, 21-25 July 2019, Congress Center Basel, Switzerland

REVIEWER - EDITOR AT PEER-REVIEWED JOURNALS

Guest Editor

Methods and Protocols (MDPI Publishing) - Special Issue "RNA-Seq: Data Analysis Methods and Applications"

SKILLS

Job-related skills

Programming Languages:
Python, R, Matlab and basic knowledge of Fortran 90/95
Bioinformatics:
Galaxy Platform, RNA-seq and Microarray Analysis and Interpretation, Transcriptomic and Proteomic Data Integration, Bioconductor Packages
Unix Operational Systems:
Linux Ubuntu, Linux Centos
CAD Software:
Basic knowledge of AutoCad
Wet Lab Expertise:
Mammalian Cell Culture, Cell Treatment, MTT Assay, RNA Extraction, Reverse Transcription and Real Time PCR Analysis