

Vasileios Gouzouasis

Pharmacist

MSc in Advanced Therapies and Biotechnology Innovation

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Brief Profile

A pharmacist, fascinated by Neuroscience, Biochemistry, Aging and Immunology. Focused in translational research on inflammatory CNS diseases, especially multiple sclerosis, with the aim of contributing a brick in the structure of personalized medicine. Trained in multidisciplinary research laboratories in Greece and in the USA. An organized, effective communicator and excellent team player as part of multicultural teams.

Education

- 11/2020-Today **PhD student** - Department of Molecular Biology & Genetics (MBG) of Democritus University of Thrace (DUTH) with subject: «Genome-wide mapping of intracellular and extracellular noncoding RNAs from multiple sclerosis patients' biofluids and their association with stress pathways. », supervisor: Dr. Antonis Giannakakis - Research Fellow at the Laboratory of Molecular Genetics, Hellenic Pasteur Institute, supervisor: Dr. Lesley Probert
- 07/2020 **License to exert the occupation of pharmacist**
- 03/2020-05/2020 **Animalaria Formación y Gestión S.L. - Curso Función D (incluye B y C)**
Animal experimentation for medical research. Completion of the theoretical part of euthanasia (Function B), animal experiments (Function C) and design of animal experiments (Function D).
- 09/2018-03/2020 **MSc in Advanced Therapies and Biotechnology Innovation** - University Francisco de Vitoria, Madrid, Spain. Grade: 8.96 (Scholarship of excellence)
Thesis: "The effect of glutamate on metabolism, shifts to glycolysis and lactate release in control and late onset Alzheimer's disease (LOAD) human induced pluripotent stem cell (iPCS) derived astrocytes."
Professor Kai-Christian Sonntag
- 01/2018-06/2018 **Erasmus** - University Alcalá de Henares (UAH) Madrid, Spain.
- 2013-2018 **BSc in Pharmacy (integrated master's degree)** - University of Patras, Greece.
Grade: 8.27 (among the 5 highest)
Thesis: "Cloning of human PARP9 constructs for protein expression in E. coli strains."
Professor Georgios A. Spyroulias
- 2013 **High school degree** – Educational Renaissance, Afidnes Attikis
Grade: 19.4 (the highest for my school)

Work Experience

- 09/2019-02/2020 **McLean Hospital, Harvard Medical School, Boston, U.S.**
Position: Research Fellow at Kai-Cristian Sonntag's laboratory
- 11/2017-01/2018 **General Hospital of Patras, Rio, Greece**
Position: Assistant in Pharmacy within Hospital
- 08/2017-10/2017 **Pharmacy of Ioannis Stasinopoulos, Piraeus, Greece**
Position: Assistant in private Pharmacy

Publications

Gouzouasis V, Tastsoglou S, Giannakakis A, Hatzigeorgiou AG. Virus-Derived Small RNAs and microRNAs in Health and Disease. *Annu Rev Biomed Data Sci.* 2023 May 9. doi: 10.1146/annurev-biodatasci-122220-111429. Epub ahead of print. PMID: 37159873.

Conferences

Gouzouasis V, Tastsoglou S, Dimitrakopoulou L, Dagkonaki A, Anagnostouli M, Markoglou N, Hatzigeorgiou A, Giannakakis A, Probert L. "Multiple sclerosis patients have an increased ratio of CD56+ bright/dim NK cells during the 1st clinical episode than asymptomatic and relapse patients." Presented at the 34th Panhellenic Congress of Neurology, 15-18 June 2023, Athens, Greece.

Gouzouasis V, Tastsoglou S, Dimitrakopoulou L, Dagkonaki A, Anagnostouli M, Markoglou N, Hatzigeorgiou A, Giannakakis A, Probert L. "Anomalous Epstein-Barr Virus Reactivation Associates with Elevated CXCL10 Levels in the Plasma of Multiple Sclerosis Patients." Presented at the Society for Neuroscience Serbia Congress, 31 May - 02 June 2023, Belgrade, Serbia.

Gouzouasis V, Dimitrakopoulou L, Dagkonaki A, Anagnostouli M, Evangelopoulos ME, Karathanasis D, Markoglou N, Kambas K, Tastsoglou S, Hatzigeorgiou A, Giannakakis A, Probert L. "Optimization of flow cytometry protocol in the cerebrospinal fluid of multiple sclerosis patients." Presented at the 12th Panhellenic Congress of Flow Cytometry, 12-14 May 2023, Kalamata, Greece. (Best congress presentation award)

Gouzouasis V, Dimitrakopoulou L, Tastsoglou S, Dagkonaki A, Anagnostouli M, Evangelopoulos ME, Karathanasis D, Markoglou N, Kambas K, Hatzigeorgiou A, Giannakakis A, Probert A. "Detection of antiviral cytokines in the plasma of multiple sclerosis patients." Presented at the 9th Panhellenic Congress of the Hellenic Academy of Neuroimmunology, 8-11 December 2022, Thessaloniki, Greece.

Giannakakis A, Tsifintaris M, Triantafyllou C, **Gouzouasis V**, Ow GS, Papp C, Ivshina A, Kuznetsov A. "TP53 mutation-associated and copy-dependent KDM7A-DT expression affects DNA repair and promotes invasive breast cancer progression." Presented at the 4th International Conference on the Long and the Short of Non-Coding RNAs, 12-17 June 2022, Rhodes, Greece.

Gouzouasis V, Evangelopoulos ME, Kambas K, Dimitrakopoulou L, Karathanasis D, Dagkonaki A, Tsoukala E, Giannakakis A, Heliopoulos I, Grigoriadis N, Kylintereas K, Kollias G, Probert L. "Immunoprofiling of the central nervous system in the onset of multiple sclerosis." Presented at the 8th Panhellenic Congress of the Hellenic Academy of Neuroimmunology, 16-19 December 2021, Thessaloniki, Greece.

Invited Talks

28/06/2022 International Society of Neuroimmunology (ISNI) presentation of the article: Twin study reveals non-heritable immune perturbations in multiple sclerosis (<https://esni.isniweb.org/tuesday-june-28/>)

25/05/2022 Athens International Master's Program in Neurosciences, Neuroimmunology Course HPI. Presentation title: Viruses as Susceptibility Factors in Multiple Sclerosis

Other courses-congresses

26-28/05/2023 6th Congress of the Hellenic Society of Gene Therapy and Regenerative Medicine.

11-14/10/2022 ESGCT 29th Congress in collaboration with BSGCT Edinburgh

26/09/2022-01/10/2022 Molecular Targets for Anti-aging Interventions, Spetses Island, Greece

19-21/06/2022 3rd annual SNFBA Bioethics Summer Course Ethics and Research: Lessons from the Pandemic

Laboratory Techniques

Cell Biology: Cell cultures (human secondary, induced pluripotent stem cells and bacterial cells), Lentiviral vector production, **Molecular Biology and Biochemistry:** DNA and RNA isolation, Seahorse assay, electrophoresis in denaturing gel SDS, Flow cytometry, Polymerase chain reaction (PCR), Real-time-quantitative PCR, Protein isolation, Protein purification (HPLC), ELISA, Immunocytochemistry, MTT assay, Transwell cell migration assay, Wound healing assay, Lentiviral transduction, Analysis of methylation levels by DNA-DOT BLOT, Nanoparticle synthesis, **Bioinformatics:** Management of the following web sites: GeneCards, OMIM, PubMed, UniProt, Ensembl Gene Ontology, BLAST, primer3 and Primer3Plus, **Programming languages:** Certificate of participation in the 1st Python and Machine Learning Bootcamp held at the Institute of Nuclear and Particle Physics of N.C.S.R. “Demokritos” from the 4th to 6th July 2022.

Languages

Greek: Native language, **English:** Certificate of Proficiency in English - University of Michigan, 2010

Spanish: DELE Nivel C2, Instituto Cervantes, 2021, **German:** Goethe - Zertifikat B2, 2011

Volunteer experience

Sea scout, organizing activities for students in City Life Madrid in the department of the trips for students.

Additional Information

Microsoft Office (Excel, Word, Power Point) at the advanced user level.

Participation and approval of tests on mathematics by the Thalys mathematics organization 2010, 2011, 2012.

Classical guitar: Level B2, Taekwondo: Red ribbon, Chess: Multiple medals, Ping pong: Athlete level

Letters of Recommendation

- agiannakakis@gmail.com
- lesley.probert@gmail.com
- chrousos@gmail.com