

# Vasileios Gouzouasis

MSc in Advanced Therapies and Biotechnology Innovation

Email: [vgouzouasis@gmail.com](mailto:vgouzouasis@gmail.com)

LinkedIn: <https://www.linkedin.com/in/vasileiosgouzouasis>

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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

## Poster presentations

12/06/2022 - 17/06/2022 **4th International Conference on the Long and the Short of Non-Coding RNAs**

**Poster:** TP53 mutation-associated and copy-dependent KDM7A-DT expression affects DNA repair and promotes invasive breast cancer progression

16/12/2021 - 19/12/2021 **8th panhellenic congress of the hellenic academy of neuroimmunology**

**Poster:** Immunophenotyping of Cerebrospinal Fluid Cells in Relapsing Remitting Multiple Sclerosis

## Invited Talks

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

## 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, Decellularization of an organ, 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 and trips 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 created by the Thalys mathematics organization in the years 2010, 2011, 2012.

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

## Letters of Recommendation

- [agiannakakis@gmail.com](mailto:agiannakakis@gmail.com)
- [lesley.probert@gmail.com](mailto:lesley.probert@gmail.com)
- [Kai@mclean.harvard.edu](mailto:Kai@mclean.harvard.edu)