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**CURRENT ACADEMIC ACTIVITIES/POSITIONS:**

- Teaching duties and coordination of Modules in Undergraduate and Postgraduate Courses, in SST, HOU
- Supervisor of MSc dissertations and PhD Thesis
- Associate director of the MSc Course “Chemical and Biomolecular Analysis”, SST, HOU
- Member of the tripartite Academic Committee supervising MSc Courses “Epidemiology”, Interdisciplinary “Bioinformatics and Neuroinformatics” and “Precision Medicine and Novel Therapies”, SST, HOU.
- Member of the committees for Internal Course Evaluation (OMEA) and Academic Affairs of SST, HOU
- Member of the “Research Ethics Committee”, HOU
- Member of research team at HOU for the development of "Onlabs", a 3D Biology Virtual Educational software for Distance Laboratory Training (<http://www.slideshare.net/EADTU/onlabs-3d-game-for-distance-laboratory>).
- Registered as Certified Assessors-Experts of the “Hellenic Foundation for Research and Innovation (HFRI)”
- Evaluation of scholarship applications for the "States Scholarship Foundation" of Greece
- Reviewer for international scientific journals
- Director of the Biology Laboratory, SST, HOU (<http://biologylab.eap.gr/>) LinkedIn: <https://www.linkedin.com/company/biology-laboratory/>

**TEACHING ACTIVITIES**

- Molecular Biology and Genetics Department, Democritus University of Thrace (2002-3)
- Department of Pharmacy (2006-8), University of Patras
- Department of Materials Science (2008), University of Patras
- Undergraduate Course "Studies in Physical Sciences" (2016-2024), SST, HOU
- Postgraduate Module «Current Topics in Applied Molecular Biology» of the MSc Course: “Chemical and Biomolecular Analysis”, (2019-2023) SST, HOU
- Postgraduate Module «Biomolecular Analysis» of the MSc Course: “Chemical and Biomolecular Analysis”, (2023-2024) SST, HOU
- Postgraduate Course (MSc): "Medicinal Chemistry: Drug Discovery and Design" (2015-24), Chemistry and Medical Departments, University of Patras
- Postgraduate Course (MSc): "Current Issues in Biological Research" (2025-2006) Biomedical Sciences, Department of Medicine, University of Patras.

**A. EDUCATIONAL RESEARCH:** Development and assessment of distance educational material.

4 original research papers, 2 book chapters, supervisor of a PhD Theses on the subject: "Assessment methods for the evaluation of users' performance in Biological Virtual Labs".

**B. RESEARCH IN THE FIELD OF LIFE SCIENCES**

**RESEARCH INTERESTS**

- Study of genetic and epigenetic background of human disorders. Detection of genomic variants and determination of methylation patterns across critical regulatory genomic elements by

Pyrosequencing technology. Chromatin immunoprecipitation protocols (ChIP, ChIP-seq). Detection of regulatory RNAs (miRNAs). Analysis of genome mutations with Next generation Sequencing (NGS) technology.

- Study of epigenetic mechanisms' interrelationship. Study of gene's expression transcriptional regulation. Quantitative Real Time and Digital PCR protocols.
- Biotechnological interventions and construction of vectors carrying exogenous genes for transgenic cultures development. Fluorescence microscopy and flow cytometry (FACS-cell sorting) applications.

2019-today: 3 active PhD students, 1 post-doc

#### **PUBLICATIONS IN THE FIELD OF LIFE SCIENCES**

1. Dereki I, Fotopoulos V, Spella M, Chondrou V and **Sgourou A**: "LRF, RBBP5 and PML cooperatively organize chromatin at key oncogenic loci". Submitted to the "European Journal of Human Genetics". Manuscript ID 1097-26-EJHG.
2. Skeparnias I, Shaukat A-N, Katsioulas C, Anastasakis D, Grafanaki K, Chondrou V, **Sgourou A**, Zhang J, Papakyriakou A and Stathopoulos C. "PNLDC1 deadenylase modulates translational rate and cell proliferation in stem cells". Submitted to Nucleic Acid Research journal. Manuscript ID NAR-02721-2025.
3. Nikolopoulos T, Dereki I, Chondrou V, Chroni A, Alexiou T, Athanasopoulou K, Bochalos E, Chatzilygeroudi T, Zafeiropoulos J, Georgakopoulos-Soares I, Bourikas K, Symeonidis A & **Sgourou A**. "RNA and Mitochondrial Reprogramming Associated with Azacytidine Treatment in Higher-Risk Myelodysplastic Syndromes: A Pilot Study". Accepted Cancers, Clinical Research of Cancer. Special Issue The Next Generation of Prognosis: Novel Biomarkers in AML and MDS, DOI:10.3390/cancers18142305.
4. Chroni A, Alexiou T, Zafeiropoulos J, Chondrou V, Symeonidis A, **Sgourou A**. "Protocol for mitochondrial DNA extraction, purity evaluation, and global methylation assessment via LC-MS/MS". STAR Protoc. 2026 Jun 22;7(3):104643. doi: 10.1016/j.xpro.2026.104643.
5. Bochalos E, Dereki I, Wang G, **Sgourou A**, Vasquez KM, Georgakopoulos-Soares I. "Non-B DNA structures and their contributions to genetic diversity, aging, and disease". Nucleic Acids Res. 2026 Feb 5;54(4):gkag084. doi: 10.1093/nar/gkag084.
6. Dereki I, Chondrou V, Lagoumintzis G, **Sgourou A**. "Epigenetic Engineering of K562 Cells: Dual-Vector Episomal Strategy for Stable Targeted DNA Methylation using dCas9-DNMT3A and -HDAC1 Fusion Proteins". J Vis Exp. 2025 Oct 31;(224). doi: 10.3791/69328.
7. Lazanas P, Antonatos C, Tsoumani KT, **Sgourou A**, Vasilopoulos Y. "Shared Genetic Architecture Between Atopic Dermatitis and Autoimmune Diseases". Int J Mol Sci. 2025 Sep 18;26(18):9124. doi: 10.3390/ijms26189124.
8. Symeonidis A, Chroni A, Dereki I, Chartoumpekis D, **Sgourou A**. "Intracellular Mis-Localization of Modified RNA Molecules and Non-Coding RNAs: Facts from Hematologic Malignancies". Curr Issues Mol Biol. 2025 Sep 14;47(9):758. doi: 10.3390/cimb47090758.
9. Theodoridou D, Tsiantis CO, Markozannes G, Chondrou V, Vlaikou AM, Karampas A, Georgiou G, **Sgourou A**, Filiou MD, Syrrou M, Petrikis P. "mRNA levels of HPA axis mediators in drug-naïve, first episode psychosis patients before and after antipsychotic treatment". Int J Psychiatry Clin Pract. 2025 Aug 22;1-13. doi: 10.1080/13651501.2025.2549306.
10. Athanassiadou A, **Sgourou A**, Verras M. "The  $\beta$ -Hemoglobinopathies as a Model for the Development of Nonviral, Episomal Vectors for Gene Therapy". Hum Gene Ther. 2025 Jun 30. doi: 10.1089/hum.2025.034.
11. Nikolopoulos T‡, Bochalos E‡, Chatzilygeroudi T, Chondrou V, Dereki I, Athanasopoulou K, Zafeiropoulos J, Bourikas K, Patrinos G, Symeonidis A & **Sgourou A**: "Integrating advanced analytical methods to assess epigenetic marks affecting response to hypomethylating agents in higher risk myelodysplastic syndrome". Mol Med. 2025 Feb 14;31(1):59. doi: 10.1186/s10020-

025-01123-7.

12. Chatzilygeroudi T, Chondrou V, Boers R, Siamoglou S, Athanasopoulou A, Verigou E, Gribnau J, Alexis S, Labropoulou V, Kourakli A, Patrinos G P, **Sgourou A**, Symeonidis A: "Fetal hemoglobin induction in azacytidine responders enlightens methylation patterns related to blast clearance in higher-risk MDS and CMML". Clin Epigenetics. 2024 Jun 15;16(1):79. doi: 10.1186/s13148-024-01687-x.
13. Spella M, Bochalos E, Athanasopoulou K, Chroni A, Dereki I, Ntaliarda G, Makariti I, Psarias G, Constantinou C, Chondrou V & **Sgourou A**: "Crosstalk between non-coding RNAs and transcription factor LRF in non-small cell lung cancer". Noncoding RNA Res. 2024 Mar 23;9(3):759-771. doi: 10.1016/j.ncrna.2024.03.009.
14. Theodoridou, D., Tsiantis, C.-O., Vlaikou, A.-M., Chondrou, V., Zakopoulou, V., Christodoulides, P., Oikonomou, E.D., Tzamourta, K.D., Kostoulas, C., Tzallas, A.T., Tsamis, K.I., Peschos, D., **Sgourou, A.**, Filiou, M.D., Syrrou, M. Developmental Dyslexia: Insights from EEG-Based Findings and Molecular Signatures—A Pilot Study". Brain Sci. 2024 Jan 28;14(2):139. doi: 10.3390/brainsci14020139.
15. Lazaris MV, Simantirakis E, Stavrou FE, Verras M, **Sgourou A**, Keramida KM, Vasilopoulos G & Athanassiadou A: "Non-Viral, episomal vector mediates efficient gene transfer of the  $\beta$ -globin gene into K562 and human, haematopoietic, progenitor cells, Genes, Special issue "Advances in Non-viral Gene Transfer for Gene Therapy Applications" Genes (Basel). 2023 Sep 8;14(9):1774. doi: 10.3390/genes14091774.
16. Athanasopoulou K, Chondrou C, Xiropotamos P, Psarias G, Vasilopoulos Y, Georgakilas GK & **Sgourou A**: "Transcriptional repression of lncRNAs and miRNAs mediated by LRF during erythropoiesis". J Mol Med (Berl). 2023 Jul 24. doi: 10.1007/s00109-023-02352-1.
17. Symeonidis A, Chatziligeroudi T, Chondrou V & **Sgourou A**: "Contingent synergistic interactions between non-coding RNAs and DNA-methyl-transferases to promote progression to Myelodysplastic Syndrome". International Journal of Molecular Sciences, Special Issue "Advances in Molecular Research and Novel Diagnostic Technics of Hematological Malignancies", J. Mol. Sci. 2022, 23, 16069. <https://doi.org/10.3390/ijms232416069>.
18. Chondrou V, Shaukat A-N, Psarias G, Athanasopoulou K, Iliopoulou E, Damanaki A, Stathopoulos C, **Sgourou A**. "LRF promotes indirectly advantageous chromatin conformation via BGLT3-lncRNA expression and switch from fetal to adult hemoglobin". International Journal of Molecular Sciences, Special Issue "Regulation of Erythropoiesis 3.0". Int. J. Mol. Sci. 2022, 23(13), 7025; <https://doi.org/10.3390/ijms23137025>.
19. Kostara M, Chondrou V, Fotopoulos V, **Sgourou A**, Tsabouri S. "Epigenetic/Genetic variations in CG-rich elements of immune-related genes contribute to food allergy development during childhood". Pediatric Allergy and Immunology. 2022. DOI: 10.1111/PAI.13812.
20. Chondrou V, Markopoulos GS, Patrinos GP, Kouraklis-Symeonidis A, Symeonidis A, Papachatzopoulou A, **Sgourou A**. LRF/ZBTB7A conservation accentuates its potential as a therapeutic target for the hematopoietic disorders. Gene. 2020 Nov 15;760:145020. doi: 10.1016/j.gene.2020.145020. Epub 2020 Aug 2. PMID: 32755656.
21. Kostara M, Chondrou V, **Sgourou A**, Douros K, Tsabouri S. HLA Polymorphisms and Food Allergy Predisposition. J Pediatr Genet. 2020 Jun;9(2):77-86. doi: 10.1055/s-0040-1708521. Epub 2020 Apr 1. PMID: 32341809 Review.
22. Mulita F, Verras GI, Iliopoulos F, Kaplanis C, Liolis E, Tchabashvili L, Tsilivigkos C, Perdikaris I, **Sgourou A**, Papachatzopoulou A, Maroulis I. "Analgesic effect of paracetamol monotherapy vs. the combination of paracetamol/parecoxib vs. the combination of pethidine/paracetamol in patients undergoing thyroidectomy". Prz Menopauzalny. 2021 Dec;20(4):226-230. doi: 10.5114/pm.2021.110955.
23. Karachaliou C, **Sgourou A**, Kakkos S, Kalavrouziotis I. "Arsenic exposure promotes the emergence of cardiovascular diseases". Rev Environ Health. 2021 Jul 12;37(4):467-486. doi: 10.1515/reveh-2021-0004.

24. Chondrou V, Markopoulos GS, Patrinos GP, Kouraklis-Symeonidis A, Symeonidis A, Papachatzopoulou A, **Sgourou A**. "LRF/ZBTB7A conservation accentuates its potential as a therapeutic target for the hematopoietic disorders". *Gene*. 2020 Nov 15;760:145020. doi: 10.1016/j.gene.2020.145020.
25. Kostara M, Chondrou V, **Sgourou A**, Douros K, Tsaouri S. "HLA Polymorphisms and Food Allergy Predisposition". *J Pediatr Genet*. 2020 Jun;9(2):77-86. doi: 10.1055/s-0040-1708521.
26. Constantinou C, Spella M, Chondrou V, Patrinos GP, Papachatzopoulou A and **Sgourou A**: "The multi-faceted functioning portrait of LRF/ZBTB7A". *Hum Genomics*. 2019 Dec 10;13(1):66. doi: 10.1186/s40246-019-0252-0.
27. Stratopoulos A, Kolliopoulou A, Karamperis K, John A, Kydonopoulou K, Esfathiou G, **Sgourou A**, Kourakli A, Vlachaki E, Chalkia P, Theodoridou S, Papadakis MN, Gerou S, Symeonidis A, Katsila T, Ali BR, Papachatzopoulou A, Patrinos GP. "Genomic variants in members of the Krüppel-like factor gene family are associated with disease severity and hydroxyurea treatment efficacy in  $\beta$ -hemoglobinopathies patients". *Pharmacogenomics*. 2019 Jul;20(11):791-801. doi: 10.2217/pgs-2019-0063.
28. Kolliopoulou A, Siamoglou S, John A, **Sgourou A**, Kourakli A, Symeonidis A, Vlachaki E, Chalkia P, Theodoridou S, Ali BR, Katsila T, Patrinos GP, Papachatzopoulou A. "Role of Genomic Biomarkers in Increasing Fetal Hemoglobin Levels Upon Hydroxyurea Therapy and in  $\beta$ -Thalassemia Intermedia: A Validation Cohort Study". *Hemoglobin*. 2019 Jan;43(1):27-33. doi: 10.1080/03630269.2019.1597732.
29. Chondrou V, Stavrou EF, Markopoulos G, Kouraklis-Symeonidis A, Fotopoulos V, Symeonidis A, Vlachaki E, Chalkia P, Patrinos GP, Papachatzopoulou A, **Sgourou A**. "Impact of ZBTB7A hypomethylation and expression patterns on treatment response to hydroxyurea". *Hum Genomics*. 2018 Oct 1;12(1):45. doi: 10.1186/s40246-018-0177-z.
30. Chondrou V, Kolovos P, **Sgourou A**, Kourakli A, Pavlidaki A, Kastrinou V, John A, Symeonidis A, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. "Whole transcriptome analysis of human erythropoietic cells during ontogenesis suggests a role of VEGFA gene as modulator of fetal hemoglobin and pharmacogenomic biomarker of treatment response to hydroxyurea in  $\beta$ -type hemoglobinopathy patients". *Hum Genomics*. 2017 Oct 23;11(1):24. doi: 10.1186/s40246-017-0120-8.
31. Kolliopoulou A, Stratopoulos A, Siamoglou S, **Sgourou A**, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. "Key Pharmacogenomic Considerations for Sickle Cell Disease Patients". *OMICS*. 2017 Jun;21(6):314-322. doi: 10.1089/omi.2017.0058.
32. Vlaikou AM, Kouroupis D, **Sgourou A**, Markopoulos GS, Bagli E, Markou M, Papadopoulos Z, Fotsis T, Nakos G, Lekka ME, Syrrou M. "Mechanical stress affects methylation pattern of GNAS isoforms and osteogenic differentiation of hAT-MSCs". *Biochim Biophys Acta Mol Cell Res*. 2017 Aug;1864(8):1371-1381. doi: 10.1016/j.bbamcr.2017.05.005.
33. Stamou P, Marioli D, Patmanidi AL, **Sgourou A**, Vittoraki A, Theofani E, Pierides C, Taraviras S, Costeas PA, Spyridonidis A. "Simple in vitro generation of human leukocyte antigen-G-expressing T-regulatory cells through pharmacological hypomethylation for adoptive cellular immunotherapy against graft-versus-host disease". *Cytotherapy*. 2017 Apr;19(4):521-530. doi: 10.1016/j.jcyt.2017.01.004.
34. Eleftheriadou I, Dieringer M, Poh XY, Sanchez-Garrido J, Gao Y, **Sgourou A**, Simmons LE, Mazarakis ND. "Selective transduction of astrocytic and neuronal CNS subpopulations by lentiviral vectors pseudotyped with Chikungunya virus envelope". *Biomaterials*. 2017 Apr;123:1-14. doi: 10.1016/j.biomaterials.2017.01.023.
35. Gravia A, Chondrou V, Kolliopoulou A, Kourakli A, John A, Symeonidis A, Ali BR, **Sgourou A**, Papachatzopoulou A, Katsila T, Patrinos GP. "Correlation of SIN3A genomic variants with  $\beta$ -hemoglobinopathies disease severity and hydroxyurea treatment efficacy". *Pharmacogenomics*. 2016 Nov;17(16):1785-1793. doi: 10.2217/pgs-2016-0076.
36. Chalikiopoulou C, Tavianatou AG, **Sgourou A**, Kourakli A, Kelepouri D, Chrysanthakopoulou M,

- Kanelaki VK, Mourdoukoutas E, Siamoglou S, John A, Symeonidis A, Ali BR, Katsila T, Papachatzopoulou A, Patrinos GP. "Genomic variants in the ASS1 gene, involved in the nitric oxide biosynthesis and signaling pathway, predict hydroxyurea treatment efficacy in compound sickle cell disease/ $\beta$ -thalassemia patients". *Pharmacogenomics*. 2016 Mar;17(4):393-403. doi: 10.2217/pgs.16.1.
37. Gravia A, Chondrou V, **Sgourou A**, Papantoni I, Borg J, Katsila T, Papachatzopoulou A, Patrinos GP. "Individualizing fetal hemoglobin augmenting therapy for  $\beta$ -type hemoglobinopathies patients". *Pharmacogenomics*. 2014 Jul;15(10):1355-64. doi: 10.2217/pgs.14.101.
38. Trabalza A, Eleftheriadou I, **Sgourou A**, Liao TY, Patsali P, Lee H, Mazarakis ND. "Enhanced central nervous system transduction with lentiviral vectors pseudotyped with RVG/HIV-1gp41 chimeric envelope glycoproteins". *J Virol*. 2014 Mar;88(5):2877-90. doi: 10.1128/JVI.03376-13.
39. **Sgourou A**, Fotopoulos V, Kontos V, Patrinos GP, Papachatzopoulou A. "Association of genome variations in the renin-angiotensin system with physical performance". *Hum Genomics*. 2012 Nov 24;6(1):24. doi: 10.1186/1479-7364-6-24.
40. **Sgourou A**, Routledge S, Spathas D, Athanassiadou A, Antoniou MN. "Physiological levels of HBB transgene expression from S/MAR element-based replicating episomal vectors". *J Biotechnol*. 2009 Aug 20;143(2):85-94. doi: 10.1016/j.jbiotec.2009.06.018.
41. **Sgourou A**, Karakantza M, Theodori E, Papadimitriou C, Theodorou GL, Davanos N, Thymianou S, Zoumbos NC, Mouzaki A. "Procleix Ultrio transcription-mediated amplification vs. serological blood screening in south-western Greece". *Transfus Med*. 2008 Apr;18(2):104-11. doi: 10.1111/j.1365-3148.2008.00847.x.
42. Georgopoulos NA, Koika V, Galli-Tsinopoulou A, Spiliotis BE, Adonakis G, Keramida MK, **Sgourou A**, Koufogiannis KD, Papachatzopoulou A, Papavassiliou AG, Kourounis G, Vagenakis GA. "Renal dysgenesis and KAL1 gene defects in patients with sporadic Kallmann syndrome". *Fertil Steril*. 2007 Nov;88(5):1311-7. doi: 10.1016/j.fertnstert.2006.12.044.
43. Sykiotis GP, **Sgourou A**, Papachatzopoulou A, Markou KB, Kyriazopoulou V, Papavassiliou AG, Vagenakis AG, Georgopoulos NA. "A somatic mutation in the thyrotropin receptor gene in a patient with an autonomous nodule within a multinodular goiter". *Hormones (Athens)*. 2002 Jan-Mar;1(1):42-6. PMID: 17018437.
44. Papachatzopoulou A, Kourakli A, Makropoulou P, Kakagianne T, **Sgourou A**, Papadakis M, Athanassiadou A. "Genotypic heterogeneity and correlation to intergenic haplotype within high HbF beta-thalassemia intermedia". *Eur J Haematol*. 2006 Apr;76(4):322-30. doi: 10.1111/j.1600-0609.2005.00618.x.
45. Vagenakis GA, **Sgourou A**, Papachatzopoulou A, Kourounis G, Papavassiliou AG, Georgopoulos NA. "The gonadotropin-releasing hormone (GnRH)-1 gene, the GnRH receptor gene, and their promoters in patients with idiopathic hypogonadotropic hypogonadism with or without resistance to GnRH action". *Fertil Steril*. 2005 Dec;84(6):1762-5. doi: 10.1016/j.fertnstert.2005.06.031.
46. Vagenakis GA, Hyphantis TN, Papageorgiou C, Protonatariou A, **Sgourou A**, Dimopoulos PA, Mavreas V, Vagenakis AG, Georgopoulos NA. "Kallmann's syndrome and schizophrenia". *Int J Psychiatry Med*. 2004;34(4):379-90. doi: 10.2190/HXR5-DGRC-JCMQ-0CBH.
47. **Sgourou A**, Routledge S, Antoniou M, Papachatzopoulou A, Psiouri L, Athanassiadou A. "Thalassaemia mutations within the 5'UTR of the human beta-globin gene disrupt transcription". *Br J Haematol*. 2004 Mar;124(6):828-35. doi: 10.1111/j.1365-2141.2004.04835.x.
48. Georgopoulos NA, Sykiotis GP, **Sgourou A**, Papachatzopoulou A, Markou KB, Kyriazopoulou V, Papavassiliou AG, Vagenakis AG. "Autonomously functioning thyroid nodules in a former iodine-deficient area commonly harbor gain-of-function mutations in the thyrotropin signaling pathway". *Eur J Endocrinol*. 2003 Oct;149(4):287-92. doi: 10.1530/eje.0.1490287.
49. Sykiotis GP, Neumann S, Georgopoulos NA, **Sgourou A**, Papachatzopoulou A, Markou KB, Kyriazopoulou V, Paschke R, Vagenakis AG, Papavassiliou AG. "Functional significance of the thyrotropin receptor germline polymorphism D727E". *Biochem Biophys Res Commun*. 2003 Feb



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#### Book chapters

51. Victoria Zakopoulou, Christos-Orestis Tsiantis, Elena Venizelou, Angeliki-Maria Vlaikou, Vasiliki Chondrou, **Argyro Sgourou**, Michaela D. Filiou, Alexandros Tzallas, George Dimakopoulos & Maria Syrrou: Early diagnosis and intervention of developmental dyslexia at the preschool age: the role of stress, p-ISSN: 2184-2205 e-ISSN: 2184-3414 ISBN: 978-989-35106-6-7 © 2024, <https://doi.org/10.36315/2024inpact030>.
52. Argiris Symeonidis, Theodora Chatzilygeroudi, Vasiliki Chondrou, **Argyro Sgourou**: DNA-Modifying Enzymes in Myelodysplastic Syndromes, adapted from 10.3390/ijms232416069, MDPI Encyclopedia (<https://encyclopedia.pub/entry/39252>) Subjects: Pathology.
53. **A Sgourou**, A Papachatzopoulou, T Katsila, GP Patrinos: "Low- and Medium-Throughput Variant Detection Methods: A Historical Perspective". Molecular Diagnostics, 3d edition, 2017, ISBN: 978-0-12-802971-8.