Vassiliki Stamatopoulou, MSc, PhD

EDUCATION & RESEARCH EXPERIENCES

2026-present Associate Professor, Department of Biochemistry, School of Medicine, University of Patras

2019-2026 Assistant Professor, Department of Biochemistry, School of Medicine, University of Patras

2016-2018 Postdoctoral Research Fellow, Department of Biochemistry, School of Medicine, University of Patras, Greece, Professor Constantinos Stathopoulos group http://rna.med.upatras.gr

2011-2015 Postdoctoral Research Fellow, Institut de Biologie & Médecine Moléculaire (IBMM), ULB University, Brussels, Belgium, Professor Denis Lafontaine group http://www.lafontainelab.com

2012 Postdoctoral Research Fellow**,** Laboratory of Biochemistry, ETH, Zurich, Switzerland, Professor Ulrike Kutay group (3 months)

2011 FEBS Postdoctoral Research Fellow, Institut de Biologie Moleculaire et Cellulaire, Université de Strasbourg, France, Professor Hubert Becker group (2 months)

2007-2010 PhD in RNA biology, School of Medicine, University of Patras, Greece, Professor Denis Drainas group

2007 Early Stage fellow, Instituto de Bioquimica Vegetal Y Fotosintesis, Universidad de Sevilla-CSIC, Professor Agustin Vioque group (2 months)

2004-2006 M.Sc in Basic Medical Sciences Applications, School of Medicine, University of Patras, Greece

2000-2004 B.Sc. in Biochemistry & Biotechnology, Department of Biochemistry & Biotechnology, University of Thessaly, Greece. Graduation Degree: 8.74 (Excellent)

RESEARCH INTERESTS

My research interests focus on the biology and metabolism of RNA (small and large non-coding RNA molecules), its interactions with proteins, and its role in the development of human diseases. More specifically, my research experience includes:

- Epigenetic regulation of gene expression at the transcriptional and translational levels mediated by regulatory RNA molecules, such as riboswitches in pathogenic microorganisms.
- NGS analyses of small and large non-coding RNA molecules as biomarkers in precision medicine.
- The study of the role of RNA in the development of antibiotic resistance with the aim of developing new, effective pharmaceuticals against bacterial infections.
- Functional and structural study of RNA helicases and their role in cancer.
- Regulation of the biogenesis and processing of ribosomal RNA precursors in the nucleolus.
- The study and detection of protein factors involved in the formation of functional ribosomal subunits and the accuracy of protein synthesis.
- The study of nucleolus morphology and the development of innovative high-throughput methodologies (gene depletion-mediated high-throughput analysis) for the prediction and diagnosis of diseases associated with changes in nucleolus structure, such as hematologic neoplasms.
- The biochemical and structural characterization of catalytically active RNA molecules (ribozymes) of bacterial and eukaryotic origin, such as the RNase P ribonucleoprotein complex and its subunits.
- The development of molecular tools mediated by ribozymes, such as M1GS, for therapeutic purposes
- The study of the potential involvement of RNase P in dermatological disorders and the synthesis of new pharmaceutical analogs of retinoids to combat them (e.g., RASP).

HONORS AND AWARDS

2025 Nucleic Acids Research Breakthrough Article. "Breakthrough" papers highlight the top 1 to 2% of papers that Nucleic Acids Research journal receives for publication.

2022 "PANAGIOTIS KANELLOPOULOS" Excellent Publication Award, University of Patras

2021 "PANAGIOTIS KANELLOPOULOS" Excellent Publication Award, University of Patras

2020 Guest Editor of IJMS at the special issue "Advanced Research in Ribosomal RNAs"

2019 Poster Presentation Award, 70th Conference of Hellenic Society of Biochemistry and Molecular Biology

2019 Oral Presentation Award, 8th Hellenic National Initiative Mikrobiokosmos

2017-2018 IKY-SIEMENS Postdoc Fellowships of Excellence

2017 Oral Presentation Award, 68th Conference of Hellenic Society of Biochemistry and Molecular Biology

2016 Member of the Organizing Commitee of 4th National Young Scientist Forum of Hellenic Society of Biochemistry and Molecular Biology

2016 Poster Presentation Award, 67th Conference of Hellenic Society of Biochemistry and Molecular Biology

2012 EMBO: Short Term Fellowship, ETH, Zurich, Switzerland

2011 FEBS: Short Term Fellowship, University of Strasbourg, France

2008 Poster Presentation Award, 1st Hellenic National Initiative Mikrobiokosmos

2004 ERASMUS/SOCRATES: Scholarship

2004 IKY Honors: Distinction prize for B.Sc. studies

2002 IKY Honors: Distinction prize for B.Sc. studies

PUBLICATIONS

Published: **28**; In preparation: **4**; Book Chapters: **3**; Citations: **1068** (Google Scholar); *h*-index: **12**; Total Impact factor (JCR 2022): **191**; Average impact factor: **6.82**; 5-year Median Impact factor: **6.95**; First and second author: **9**; Corresponding author: **6**; Presentations in international conferences: **25**; Presentations in national conferences: **36**; Database: **1**

1. Stavropoulos A, **Stamatopoulou V**, Pavlos E, Manioudaki M, Sakellariou S, Stathopoulos C, Xilouri M. **(2026)** TGFβ pathway represses hepatic ribosome biogenesis and protein synthesis by regulating p70S6K-S6RP proteins. ***Cell Mol Biol Lett.*** 31: 21. doi: 10.1186/s11658-025-00853-0. (IF: 10.2)
2. Petropoulou A, Kypraios N, Rizopoulou D, Kouvela A, Maniatis A, Anastasopoulou K, Anastogianni A, Korfiatis T, Grafanaki K, **Stamatopoulou V**, Stathopoulos C. **(2025)** Mitochondrial tRNA-Derived Diseases. ***Int J Mol Sci.*** 26: 12023. doi: 10.3390/ijms262412023. (IF: 5.6)
3. Papachatzi E, Gkouti E, Kouvela A, Benou S, Dimitriou G, Fouzas S, **Stamatopoulou V** and Gkentzi D. **(2025)** MicroRNA Profiling as a Novel Tool in the Diagnostics of Late-Onset Neonatal Sepsis: A Scoping Review. ***Children*** 12: 1573. doi.org/10.3390/children12111573. (IF: 2.6)
4. Giarimoglou N, Kouvela A, Papakyriakou A, Zhang J, **Stamatopoulou V*** and Stathopoulos C*. **(2025)** Specific targeting of transcriptional T-box riboswitches leads to effective inhibition of S. aureus. ***RNA*** 17: rna.080644. doi: 10.1261/rna.080644.125 (IF: 4.3) ***co-correspondence**
5. Kouvela A, Giarimoglou N, Zhang J, Stathopoulos C and **Stamatopoulou V. (2025)** Coupling $tRNA^{Gly}$ gene redundancy with staphylococcal cell wall integrity, antibiotic susceptibility and virulence potential. ***Nucleic Acids Res*** 53: gkaf599. doi: 10.1093/nar/gkaf599. (IF: 15)
6. Maniatis A, Rizopoulou D, Shaukat AN, Grafanaki K, **Stamatopoulou V**, Stathopoulos C. **(2025)** Vault Particles in Cancer Progression, Multidrug Resistance, and Drug Delivery: Current Insights and Future Applications. ***Int J Mol Sci***. 26: 1562. doi: 10.3390/ijms26041562. (IF: 5.6)

7. Giarimoglou N, Kouvela A, Zhang J, **Stamatopoulou V**, Stathopoulos C. **(2024)** Structural idiosyncrasies of glycyl T-box riboswitches among pathogenic bacteria. ***RNA*** 30: 1328-1344. doi: 10.1261/rna.080071.124. (IF: 4.3)
8. Koutras, N., Morfos, V., Konnaris, K., Kouvela, A., Shaukat, A.N., Stathopoulos, C., **Stamatopoulou, V.**, and Nika, K. **(2023)** Integrated signaling and transcriptome analysis reveals Src-family kinase individualities and novel pathways controlled by their constitutive activity. ***Front Immunol*** 14:1224520. doi: 10.3389/fimmu.2023.1224520. (IF: 7)
9. Apostolidi, M. and **Stamatopoulou, V. (2023)** Aberrant splicing in human cancer: An RNA structural code point of view. ***Front Pharmacol*** 14: 1137154. doi: 10.3389/fphar.2023.1137154. (IF: 5.4)
10. Giarimoglou, N., Kouvela, A., Maniatis, A., Papakyriakou, A., Zhang, J., **Stamatopoulou, V.** and Stathopoulos, C. **(2022)** A Riboswitch-Driven Era of New Antibacterials. ***Antibiotics (Basel)*** 11: 1243 doi: 10.3390/antibiotics11091243 (IF: 5.5)
11. Giarimoglou, N., Kouvela, A., Patsi, I., Zhang, J., **Stamatopoulou, V.*** and Stathopoulos, C* **(2022)** Lineage-specific insertions in T-box riboswitches modulate antibiotic binding and action. ***Nucleic Acids Res*** 50: 5834-5849 doi.org/10.1093/nar/gkac359 ***co-correspondence** (IF: 15)
12. Kouvela, A., Zaravinos, A., **Stamatopoulou, V. (2021)** Adaptor Molecules Epitranscriptome Reprograms Bacterial Pathogenicity. ***Int J Mol Sci*** 22: 8409 (IF: 5.6).
13. Shaukat, A.N., Kaliatsi, E.G., **Stamatopoulou, V**., Stathopoulos, C. **(2021)** Mitochondrial tRNA-Derived Fragments and Their Contribution to Gene Expression Regulation. ***Front Physiol*** 12: 729452 (IF: 4.3).
14. Kaliatsi, E.G., Giarimoglou, N., Stathopoulos, C., **Stamatopoulou, V**. **(2020)** Non-Coding RNA-Driven Regulation of rRNA Biogenesis. ***Int J Mol Sci*** 21: 9738 (IF: 5.6).
15. Li, S., Su, Z., Lehmann, J., **Stamatopoulou, V**., Giarimoglou, N., Stathopoulos, C., Chiu, W., Zhang, J. **(2019)** Structural basis of amino acid surveillance by higher-order tRNA-mRNA interactions. ***Nature Structural & Molecular Biology*** 26: 1094-1105 (IF:10.1).
16. **Stamatopoulou, V.**, Parisot, P., De Vleeschouwer, C., Lafontaine, D.L.J. **(2018)** Using the iNo score to discriminate normal from altered nucleolar morphology, with applications in basic cell biology and potential in human disease diagnostics. ***Nature protocols*** 13: 2387-2406 (IF: 18.4).
17. Toumpeki, C., Anastasakis, D., Panagoulias, I., **Stamatopoulou, V.**, Georgakopoulos, T., Kallia-Raftopoulos, S., Mouzaki, A., Drainas, D. **(2018)** Construction of an M1GS ribozyme for targeted and rapid mRNA cleavage; application on the ETS2 oncogene. ***Med Chem***. 14: 604-616 (IF: 2.5).
18. **Stamatopoulou, V.**, Apostolidi, M., Li, S., Lamprinou, K., Papakyriakou, A., Zhang, J., Stathopoulos, C. **(2017)** Direct modulation of T-box riboswitch controlled transcription by protein synthesis inhibitors. ***Nucleic Acids Res*** 45: 10242-10258 (IF: 15).
19. Petridis, T.[#], Giannakopoulou, D.[#], **Stamatopoulou, V.**[#], Grafanaki, K., Kostopoulos, C., Papadaki, H., Malavaki, C.J., Karamanos, N.K., Douroumi, S., Papachristou, D., Magoulas, G.E., Papaioannou, D., Drainas, D. **(2016)** Investigation on Toxicity and Teratogenicity in Rats of a Retinoid-Polyamine Conjugate with Potent Anti-Inflammatory Properties. ***Birth Defects Res B Dev Reprod Toxicol*** 107: 32-44 [#] **first co-authors** (IF: 2).
20. **Stamatopoulou, V**., Toumpeki, C., Vourekas, A., Bikou, M., Tsitlaidou, M., Tzakos, A.G., Afendra, A., Drainas, C., Drainas, D. **(2014)** On the Role of the Appended P19 Element in Type A RNAs of Bacterial RNase P. ***Biochemistry*** 53: 1810-1817 (IF: 2.7).
21. Tafforeau, L., Zorbas, C., Langhendries, J.L., Mullineux, S.T., **Stamatopoulou V.**, Mullier, R., Wacheul, L., Lafontaine, D.L. **(2013)** The Complexity of Human Ribosome Biogenesis Revealed by Systematic Nucleolar Screening of Pre-rRNA Processing Factors. ***Mol Cell*** 51: 539-551 (IF:16).
22. Saad, N.Y., **Stamatopoulou. V.**, Brayé, M., Drainas, D., Stathopoulos, C., Becker, H.D. **(2013)** Two-codon T-box riboswitch binding two tRNAs. ***PNAS*** 110: 12756-12761 (IF:9.5).
23. **Stamatopoulou, V**., Toumpeki, C., Tzakos, A., Vourekas, A., Drainas, D. **(2010)** Domain Architecture of the DRpp29 Protein and Its Interaction with the RNA Subunit of *Dictyostelium discoideum* RNase P. ***Biochemistry*** 49: 10714-10727 (IF: 2.7).
24. Faropoulos, K., Chroni, E., Assimakopoulos, S.F., Mavrakis, A., **Stamatopoulou, V.**, Toumpeki, C., Drainas, D., Grintzalis, K., Papapostolou, I., Georgiou, C.D., Konstantinou, D. **(2010)** Altered occludin expression in brain capillaries induced by obstructive jaundice in rats. ***Brain Res*** 1325: 121-127 (IF: 3.2).
25. Vourekas, A., Vryzaki, E., Toumpeki, C., **Stamatopoulou, V.**, Monastirli, A., Tsambaos, D., Drainas, D. **(2009)** Partial purification and characterization of RNase P from human peripheral lymphocytes. ***Experimental Dermatology*** 18: 130–133 (IF:3.4).
26. Toumpeki, C., Vourekas, A., Kalavrizioti, D., **Stamatopoulou, V.**, Drainas, D. **(2008)** Activation of Bacterial Ribonuclease P by Macrolides. ***Biochemistry*** 47: 4112–4118 (IF: 2.7).

27. Vourekas, A., **Stamatopoulou, V.**, Toumpeki, C., Tsitlaidou, M., Drainas, D. **(2008)** Insights into Functional Modulation of Catalytic RNA Activity. ***IUBMB Life*** 60: 669-683 (IF:3.2).
28. Kalavrizioti, D., Vourekas, A., **Stamatopoulou, V.**, Toumpeki, C., Giannouli, S., Stathopoulos, C., Drainas, D. **(2006)** RNA-Mediated Therapeutics: From Gene Inactivation to Clinical Application. ***Curr Top Med Chem*** 6: 1737-1758 (IF:3.6).

BOOK CHAPTERS

1. **Stamatopoulou V** and Zaravinos A. **(2021)** Epitranscriptomics markers regulate the infection by RNA viruses. RNA Technologies - Epitranscriptomics. Ed: Stefan Jurga and Jan Barciszewski (Springer Nature Series) vol. 11 (2021). Doi: 10.1007/978-3-030-71612-7_5.
2. Stathopoulos, C., Giarimoglou, N., Kouvela, A., Alexiou, A., **Stamatopoulou, V. (2021)** MicroRNAs in Neurodegenerative Diseases. In: Vlamos P., Kotsireas I.S., Tarnanas I. (eds) Handbook of Computational Neurodegeneration. Springer, Cham. https://doi.org/10.1007/978-3-319-75479-6_49-1.
3. Toumpeki, C., **Stamatopoulou, V.**, Bikou M., Grafanaki, K., Stathopoulos C & Drainas, D. **(2013)** Targeting ribonuclease P. in: Gualerzi C.O. Antibiotics: Targets, Mechanisms and Resistance. Wiley-VCH, 2014: 355-69. DOI:10.1002/9783527659685.

DATABASE

Tafforeau L, Zorbas C, Langhendries JL, Mullineux ST, **Stamatopoulou V**, Mullier R, Wacheul L & Lafontaine DL. (2014) www.ribogenesis.com

FUNDING

2026-2029 Research – Innovate Competitiveness 2021–2027, "Endogenous Biomarkers and Artificial Intelligence: The Future of CAR-T Cell Therapies" Collaborating Research Group (€600,000)

2025–2028 HFRI - Hellenic Foundation for Research and Innovation "Deciphering the biology and dynamic networks of novel noncoding RNAs in cellular homeostasis and cancer drug resistance" Collaborating Research Group (€300,000)

2025–2027 HFRI - Hellenic Foundation for Research and Innovation (collaborator) for the procurement of high-value research equipment, University of Patras "Systemic Precision Biomedicine: Management of disease metabolism for therapeutic target identification and validation" Collaborating Research Group (€450,000)

2023-2025 Agilent University Relations: ACT-UR Program and Grant, Agilent Technologies, Inc (Co-Principal Investigator) title "Enrichment of Noncoding RNA Transcripts Using Engineered Protein Chaperons for Next Generation RNA Sequencing Applications" ($ 65.513)

2020-2021 Asklepios Gilead Grants (collaborator) title "Transcriptomics Profiling of CLL intratumoral subpopulations with aberrant BCR signaling" (€ 20.000)

2020-2023 K. KARATHEODORIS: National Research Program, University of Patras, Greece (Principal Investigator), title "tRNA-mediated regulation of gene expression in bacterial pathogens: The paradigm of Staphylococcus aureus" (€ 30.000)

2019-2022 HFRI - Hellenic Foundation for Research & Innovation (collaborator) title "Riboswitches as modulators of bacterial infections and antibiotic resistance" (€ 179.982)

2017 2018 IKY-SIEMENS Postdoc Fellowships of Excellence (€ 24.000)

2016 2017 Fondation Sante International Research Program (€ 40.000)

2011-2015 Fonds de la Recherche Scientifique (FNRS): Research Program, ULB University, Brussels, Belgium (€ 192.000)

2009-2010 K. KARATHEODORIS: National Research Program, University of Patras, Greece (€ 30.000)

2006-2009 Greek-Spanish Bilateral Research Grant (GSRT), University of Patras, Greece (€ 10.000)

2004-2007 PYTHAGORAS I: National Research Program, University of Patras, Greece (€ 50.000)

INVITED PRESENTATIONS

1. **Stamatopoulou V.** (2021) The Complexity of Human Ribosomal RNA Biogenesis. 71st Conference Hellenic Society of Biochemistry and Molecular Biology (EEBMB), Newsletter **vol. 66**, 25-27 November, Athens, Greece
2. **Stamatopoulou V**., Giarimoglou N., Li S., Apostolidi M., Becker H.D., Zhang J., Stathopoulos C. (2018) "Unboxing" the diversity of tRNA-mediated transcription regulation in pathogens. 27th tRNA Workshop, 23-27 September, Strasbourg, France
3. Toumpeki C, **Stamatopoulou V**, Bikou M, Kondopoulou C, Kakatsidis F & Drainas D. (2010) RNase P: A Promising Molecular Target for the Development of New Drugs. Joint Workshop Biotechnology, Drug Discovery & Novel Therapeutic Approaches, 28-30 October, Camerino, Italy
4. **Stamatopoulou V**. (2010) Biochemical pathways of sunburn and melanoma. 1º Albanian workshop of Skin Cancer, Tirana, Albania

ORAL & POSTER PRESENTATIONS IN INTERNATIONAL CONFERENCES

1. Papachatzi E., Gkouti E., Kouvela A., **Stamatopoulou V.,** Dimitriou G., Gkentzi D. **(2025)** MicroRNA profiling as a novel tool in late-onset neonatal sepsis diagnostics - pilot study, 43rd Annual Meeting of the European Society for Paediatric Infectious Diseases (ESPID), 26-30 May, Bucharest
2. Constantinos Stathopoulos C., Kouvela A., Giarimoglou N., Grafanaki K., Jaramillo-Ponce J., Marzi S., Papakyriakou A., Zhang J. and **Stamatopoulou V. (2024)** Understanding the complexity of tRNA-mediated regulation: idiosyncrasies and opportunities. 29th tRNA Conference, 18-22 November, Kanazawa, Japan
3. Kouvela A., Giarimoglou N., Zhang J., Stathopoulos C., **Stamatopoulou V. (2023)** Dissecting the regulatory role of tRNAGly in S. aureus infectivity and antibiotic resistance, 10th International Conference of Mikrobiokosmos, 30 November-02 December, Larissa
4. Vryzaki E., **Stamatopoulou V.**, Drainas D. **(2023)** Direct inhibition of human RNase P by retinoids, 25th World Congress of Dermatology, 3-8 July, Singapore
5. Patsi I., Giarimoglou N., Kouvela A., Stamatopoulou V., Zhang J., Stathopoulos C. **(2021)** Structural idiosyncrasies of T-box riboswitches from pathogenic bacteria. 26th Annual Meeting of the RNA Society, 25 May- 5 June, online
6. Suddala K., Li S., Su Z., Lehmann J., **Stamatopoulou V.**, Giarimoglou N., Henderson F.,Fan L., Wang YX.,Stathopoulos C., Chiu W.,Zhang J. **(2020)** Structural insights into multivalent and multimodal tRNA-mRNA interactions from the T-box riboswitches. 25th Annual Meeting of the RNA Society, 26-31 May, online
7. **Stamatopoulou V.,** Giarimoglou N., Li S., Apostolidi M., Zhang J., Stathopoulos C. **(2019)** Species-specific T-box:tRNA-mediated synchronization of cell wall and protein synthesis in staphylococci. 24th RNA Society meeting, 11-16 June, Krakow, Poland
8. Vryzaki E., Kyriakou G., **Stamatopoulou V.**, Drainas D. **(2019)** Retinoids as efficient inhibitors of human RNase P. 49th European Society for Dermatological Research (ESDR), 18-21 September, Bordeaux, France
9. **Stamatopoulou, V.**, Parisot, P., De Vleeschouwer, C., Lafontaine, D.L.J. **(2018)** A novel tool for distinguishing qualitatively and quantitatively the normal from pathologic nucleolus. EMBL Symposia on Cellular Mechanisms Driven by Liquid Phase Separation, 14-17 May, Heidelberg, Germany
10. Shuang Li S, Su Z, Lehmann J, **Stamatopoulou V**, Stathopoulos C, Chiu W & Zhang J **(2018)** Structural basis of tRNA-mediated transcription anti-termination by a T-box riboswitch. 23rd Annual meeting of RNA Society, 29 May-3 June, Berkeley, California, USA
11. **Stamatopoulou, V.**, Parisot, P., De Vleeschouwer, C., Lafontaine, D.L.J. **(2018)** Using the iNo score to discriminate normal from altered nucleolar morphology, with applications in basic cell biology and potential in human disease diagnostics. 11th International Conference on Ribosome Synthesis, 1 – 5 August, Orford Canada
12. Giarimoglou, N.*, **Stamatopoulou, V.*,** Li, Shuang., Apostolidi, M., Kaliatsi, E., Zhang, J., Stathopoulos, C. **(2018)** Structural probing of staphylococcal-specific *glyS* T-box domains and modulation of transcription by protein synthesis inhibitors. 27th tRNA conference, 23-27 September, Strasbourg, France ***equal contribution**
13. **Stamatopoulou V**., Giarimoglou N., Li S., Apostolidi M., Becker H.D., Zhang J., Stathopoulos C. **(2018)** "Unboxing" the diversity of tRNA-mediated transcription regulation in pathogens. 27th tRNA conference, 23-27 September, Strasbourg, France
14. Li S., Su Z., Lehmann J., **Stamatopoulou V.**, Giarimoglou N., Henderson F., Stathopoulos C., Chiu W., Zhang J. **(2018)** Structural basis of tRNA aminoacylation-dependent transcription attenuation by a T-box riboswitch. 27th tRNA conference, 23-27 September, Strasbourg, France

15. Zorbas C, Tafforeau L, Langhendries JL, Mullineux T, **Stamatopoulou V**, Mullier R, & Lafontaine DL. **(2012)** Probing the human nucleolar proteome for novel pre-rRNA processing factors. 9th International Conference on Ribosome Synthesis, 22-26 August, Banff, Alberta, Canada
16. Toumpeki C, **Stamatopoulou V**, Bikou M, Kondopoulou C, Kakatsidis F & Drainas D. **(2010)** RNase P: A Promising Molecular Target for the Development of New Drugs. Joint Workshop Biotechnology, Drug Discovery & Novel Therapeutic Approaches, 28-30 October, Camerino, Italy
17. **Stamatopoulou V**, Toumpeki C, Vourekas A, Tsitlaidou M, Afendra A, Drainas C & Drainas D **(2010)** Characterization of the RNase P from *Zymomonas mobilis* and structural analysis of its RNA subunit. 23rd tRNA conference, 28 January - 2 February, Aveiro, Portugal
18. **Stamatopoulou V**. **(2010)** Biochemical pathways of sunburn and melanoma. 1st Albanian workshop of Skin Cancer, Tirana, Albania
19. **Stamatopoulou V**, Vourekas A, Toumpeki C, Tzakos A & Drainas D **(2008)** Biochemical characterization and molecular modeling of DRpp29, a key protein subunit of *D. discoideum* RNase P. *The FEBS Journal* **vol. 275**, 33rd FEBS Congress & 11th IUBMB Conference, 28 June – 3 July, Athens, Greece
20. Toumpeki C, Vourekas A, Kalavrizioti D, **Stamatopoulou V** & Drainas D **(2008)** Activation of Bacterial Ribonuclease P by Macrolides. *The FEBS Journal* **vol. 275**, 33rd FEBS Congress & 11th IUBMB Conference, 28 June – 3 July, Athens, Greece
21. Vourekas A, **Stamatopoulou V**, Stathopoulos C & Drainas D **(2008)** The RNA component of Ribonuclease P from *Dictyostelium discoideum*. *The FEBS Journal* **vol. 275**, 33rd FEBS Congress & 11th IUBMB Conference, 28 June – 3 July, Athens, Greece
22. Tsitlaidou M, Vourekas A, Kalavrizioti D, **Stamatopoulou V**, Toumpeki C, Afendra A, Drainas C & Drainas D **(2008)** Studies on ribonuclease P (RNase P) from the ethanologenic bacterium *Zymomonas mobilis*. *The FEBS Journal* **vol. 275**, 33rd FEBS Congress & 11th IUBMB Conference, 28 June – 3 July, Athens, Greece
23. Vourekas A, Kalavrizioti D, **Stamatopoulou V**, Toumpeki C, Stathopoulos C & Drainas D **(2007)** Composition of the RNase P ribonucleoprotein complex from *Dictyostelium discoideum*. 22nd tRNA conference, 1-6 November 2007, Uppsala, Sweden
24. Vourekas A, Kalavrizioti D, Theodorakopoulou O, **Stamatopoulou V**, Toumpeki C, Stathopoulos C & Drainas D **(2006)** Composition of the ribonucleoprotein complex of ribonuclease P from *Dictyostelium discoideurn*. *The FEBS journal* **vol. 273**, 31st FEBS Congress, 24-29 June, Istanbul, Turkey

ORAL & POSTER PRESENTATIONS IN NATIONAL CONFERENCES

1. Kouvela A., Giarimoglou N., Jaramillo-Ponce J., Marzi S., Stathopoulos C., **Stamatopoulou V. (2024)** Unraveling the role of tRNAGly in Staphylococcus aureus: Impact on cell wall integrity, antibiotic susceptibility, and virulence, 74ο Συνέδριο Συνέδριο Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας (EEBMB), Newsletter **vol. 69**, 13-15 Δεκεμβρίου, Θεσσαλονίκη
2. Παπαχατζή Ε., Γκούτη Ε., Κούβελα Α., **Σταματοπούλου Β.**, Δημητρίου Γ., Γκέντζη Δ. **(2024)** MicroRNAS ως διαγνωστικό εργαλείο για την όψιμη νεογνική σηψαιμία, 4ο Πανελλήνιο Συνέδριο Παιδιατρικών Λοιμώξεων, 6-8 Δεκεμβρίου, Λάρισα
3. Kouvela A., Giarimoglou N., Zhang J., Stathopoulos C., **Stamatopoulou V. (2023)** Coupling tRNAGly redundancy with Staphylococcus aureus pathogenicity: Insights from genome editing and transcriptomics, 73ο Συνέδριο EEBMB, Newsletter **vol. 68**, 1-3 Δεκεμβρίου, Αθήνα
4. Kypraios N., Gentekaki K., Kaliatsi E.G., Kouvela A., Stathopoulos C., **Stamatopoulou V. (2023)** Characterization of the putative DEAH-box RNA helicase DHX35: Insights into cancer translation deregulation, 73ο Συνέδριο EEBMB, Newsletter **vol. 68**, 1-3 Δεκεμβρίου, Αθήνα
5. Kouvela A., Giarimoglou N., Maniatis A., Zhang J., Stathopoulos C., **Stamatopoulou V. (2022)** P1 tRNAGly ablation from Staphylococcus aureus deregulates iron homeostasis, tRNA pool and susceptibility to antibiotics, 72ο Συνέδριο EEBMB, Newsletter **vol. 67**, 2-4 Δεκεμβρίου, Πάτρα
6. Gentekaki K., Kaliatsi E.G., Stathopoulos C., **Stamatopoulou V. (2022)** Dissecting the role of a putative DEAH-box RNA helicase 35 (DHX35), 72ο Συνέδριο EEBMB, Newsletter **vol. 67**, 2-4 Δεκεμβρίου, Πάτρα
7. Giarimoglou N., Kouvela A., Maniatis A., Papakyriakou A., Zhang J., **Stamatopoulou V.** and Stathopoulos C. **(2022)** Comparative structural analysis of T-box riboswitches from pathogens reveals structural peculiarities with role against antibiotic resistance, 72ο Συνέδριο EEBMB, Newsletter **vol. 67**, 2-4 Δεκεμβρίου, Πάτρα
8. **Stamatopoulou V. (2021)** The Complexity of Human Ribosomal RNA Biogenesis. 71ο EEBMB, Newsletter **vol. 66**, 25-27 Νοεμβρίου, Αθήνα
9. **Stamatopoulou V. (2021)** The Complexity of Human Ribosomal RNA Biogenesis. 71st Conference Hellenic Society of Biochemistry and Molecular Biology (EEBMB), Newsletter **vol. 66**, 25-27 November, Athens, Greece

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14. Nikoleta Giarimoglou N., Dermoniotis D., Patsi I., Li S., **Stamatopoulou V.**, Zhang J. Stathopoulos C. **(2019)** Species-specific domains of *S. aureus glyS* T-box interfere with transcriptional attenuation, 70th EEBMB, Newsletter **vol. 65**, 29 November – 01 December, Athens, Greece
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16. **Stamatopoulou, V.,** Parisot, P., De Vleeschouwer, C., Lafontaine, D.L.J. (2018) A novel tool for distinguishing qualitatively and quantitatively the normal from pathologic nucleolus. 69th EEBMB, Newsletter **vol. 64**, 23-25 November, Larisa, Greece
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20. **Stamatopoulou V**, Apostolidi M, Lamprinou K, Kaliatsi E & Stathopoulos (2016) Functional and structural analysis of the *glyS* T-box riboswitch-mediated synchronization of protein synthesis and cell wall formation in pathogens. 67th EEBMB, Newsletter **vol. 62**, 25-27 November, Ioannina, Greece
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22. Apostolidi M, Papaconstantinou C, **Stamatopoulou V**, Saad N, Drainas D, Becker H & Stathopoulos (2015) A single *glyS* T-box riboswitch with species-specific structural features can selectively respond to both proteinogenic and non-proteinogenic $tRNA^{Gly}$ isoacceptors *in vivo*. 66th EEBMB, Newsletter **vol. 61**, 11-13 December, Athens, Greece
23. Toumpeki C, **Stamatopoulou V**, Kallia-Raftopoulou S, Mouzaki A & Drainas D. (2011) Construction of an M1GS ribozyme targeting efficiently the human protooncogene *ets-2* product *in vitro* and *in vivo*. 62nd EEBMB, Newsletter **vol. 57**, 9-11 December, Athens, Greece
24. Kondopoulou C, **Stamatopoulou V**, Toumpeki C, Bikou M, Bellou TD, Panagiotidis CA & Drainas D. (2011) Biochemical characterization of DPop5, a protein subunit of *D. discoideum* RNase P. 62nd EEBMB, Newsletter **vol. 57**, 9-11 December, Athens, Greece
25. Toumpeki C, **Stamatopoulou V**, Bikou M, Vourekas A, Tsitlaidou M, Tzakos AG, Afendra AS, Drainas C & Drainas D. (2011) Characterization of the RNase P from the ethanologenic bacterium *Zymomonas mobilis*. 4th MBK, 21-23 October, Ioannina, Greece
26. Apostolidi M, Toumpeki C, **Stamatopoulou V**, Drainas D & Stathopoulos C (2010) Studies on the functional participation of *Dictyostelium discoideum* La protein in the maturation of nascent tRNAs. 61st EEBMB, Newsletter **vol. 56**, 15-17 October, Alexandroupoli, Greece

27. Bikou M, **Stamatopoulou V**, Toumpeki C, Tsitlaidou M, Vourekas A, Afendra A, Drainas C & Drainas D. (2010) Biochemical characterization of the RNase P from *Zymomonas mobilis* and studies on the secondary structure of its RNA subunit. 32nd EEBE, 20-22 May, Karpenisi, Greece
28. **Stamatopoulou V**, Toumpeki C, Vourekas A, Tzakos A & Drainas D (2009) Biochemical and structural studies of DRpp29 protein and RNA subunits of RNase P from *Dictyostelium discoideum.* Newsletter **vol. 55**, 60th EEBMB, 20-22 November, Athens, Greece
29. Bellou TD, **Stamatopoulou V**, Drainas D & Panagiotidis CA. (2009) Improved production of Pop5 subunit of the *Dictyostelium discoideum* RNase P in bacteria using a chaperone-fusion expression system. Newsletter **vol. 55**, 60th EEBMB, 20-22 November, Athens, Greece
30. **Stamatopoulou V**, Toumpeki C, Tsitlaidou M, Vourekas A, Drainas C, Afendra A, & Drainas D (2008) Characterization of the RNase P from *Zymomonas mobilis* and structural analysis of its RNA subunit. Newsletter **vol. 55**, 60th EEBMB, 20-22 November, Athens, Greece
31. **Stamatopoulou V**, Toumpeki C, Bikou M, Litra M, Tsiapalis D, Vioque A & Drainas D (2009) RNase P as a target for new inhibitors; Differences of the inhibitors sensitivity on the RNase P enzymes from bacteria, subcellular organelles and eukarya. 31st EEBE, 14-16 May, Patras, Greece
32. **Stamatopoulou V**, Toumpeki C, Tsitlaidou M, Vourekas A, Bikou M, Afendra A, Drainas C & Drainas D (2008) Subunit composition and functional characterization of Ribonuclease P (RNase P) from the ethanologenic bacterium *Zymomonas mobilis*. 1st MKB, 12-14 December, Athens, Greece (*poster presentation* ***award***)
33. **Stamatopoulou V**, Vourekas A, Theodorakopoulou O, Toumpeki C, Tsitlaidou M, Tzakos A & Drainas D (2007) Biochemical characterization and molecular modeling of DRpp29, a key protein subunit of *D. discoideum* RNase P. Newsletter **vol. 54**, 59th EEBMB, 7-9 December, Athens, Greece
34. Tsitlaidou M, Vourekas A, Kalavrizioti D, **Stamatopoulou V**, Toumpeki C, Afendra A, Drainas C & Drainas D (2007) Studies on ribonuclease P (RNase P) from the ethanologenic bacterium *Zymomonas mobilis*. Newsletter **vol. 54**, 59th EEBMB, 7-9 December, Athens, Greece
35. **Stamatopoulou V**, Vourekas A, Tsitlaidou M, Bikou M & Drainas D (2006) Studies on the *Schizosaccharomyces pombe* mitochondrial RNase P. 58th EEBMB, Newsletter **vol. 53**, 9-11 November, Patras, Greece
36. Vourekas A, Kalavrizioti D, **Stamatopoulou V**, Toumpeki C, Stathopoulos C & Drainas D (2005) Composition of the ribonucleoprotein complex of ribonuclease P from *Dictyostelium discoideurn*. Newsletter **vol. 52**, 57th EEBMB, 9-11 December, Athens, Greece
37. **Stamatopoulou V**, Blaise M, Becker H, Kern D & Stathopoulos C. (2004) Cloning, expression and purification of glu-AdT from the archaeon *Purococcus abyssi*. 26th EEBE, 27-30 May, Volos, Greece

SUPERVISING, MENTORING ACTIVITIES

Supervisor of:

4 Undergraduate students

5 Master Students

1 Doctoral Student

Member of 17 PhD committees

Member of 17 MSc committees

TEACHING & TRAINING

2026-present Associate Professor, School of Medicine, University of Patras, Patras, Greece

2020-2026 Assistant Professor, School of Medicine, University of Patras, Patras, Greece

01-07/2018 Teaching Associate (Assistant Professor level) School of Medicine, University of Patras, Patras, Greece (6 months appointment).

01-07/2017 Teaching Associate (Assistant Professor level) School of Medicine, University of Patras, Patras, Greece (6 months appointment).

01-07/2016 Teaching Associate (Assistant Professor level) School of Medicine, University of Patras, Patras, Greece (6 months appointment).

2011-2015 Teaching Assistant in Molecular Biology laboratory practical undergraduate courses, Institut de Biologie & Médecine Moléculaire (IBMM), Université de ULB, Brussels, Belgium

2005-2010 Teaching Assistant in Biochemistry I, II and III laboratory practical undergraduate courses, School of Medicine, University of Patras

Instructor in Graduate Programs:

1. Graduate Program in **"Biomedical Sciences"** at the School of Medicine, University of Patras.
Courses (2020–present):
-"Methodology" (coordinator since 2023–present)
-"Molecular Basis of Transcription and Translation"
-"Pathobiochemistry"
-"Complementary Research Skills"
-"Research Seminars and Guest Lectures" (coordinator from 2023–present)
2. Interdepartmental Master's Program at the University of Patras: **"Life Sciences Informatics."**
Courses (2023–present):
- "Molecular Basis of Transcription and Translation"
- "Research Seminars and Guest Lectures" (coordinator since 2023–present)
3. Interdepartmental Graduate Program of the University of Patras **"Medical Chemistry and Chemical Biology."**
Course (2024–present):
-"Chemical Biology" (coordinator)
5. Interdepartmental Master's Program at the University of Patras, **"Health Education."**
Course (2026–present):
"Scientific Writing"
6. Interdepartmental Graduate Program at the University of Patras, **"Personalized Medicine."**
Course (2023–2026):
- "Molecular Basis of Transcription and Translation"
7. Interdepartmental Graduate Program at the University of Patras, "**Medical Physics**" (2020–present): Co-instructor for the course "Biochemistry"
8. Interdepartmental Graduate Program in "**Radiophysic**s" at the University of Patras (2020–present): Participation in teaching the course "Biochemistry"