

Constantinos Stathopoulos, Ph.D.

Professor

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POSITIONS

- 2014-Today *Professor (Full)* of Biochemistry, University of Patras, School of Medicine, Department of Biochemistry, University of Patras, Patras, Greece. Elected June 3rd 2014, Appointed August 26th 2014.
- 2008-2014 *Associate Professor* of Biochemistry, University of Patras, School of Medicine, Department of Biochemistry, University of Patras, Patras, Greece. Elected April 4th 2008, Appointed June 1st 2009.
- 2007-2008 *Group Leader*, Institute of Biomedical Research (BIOMED), Center for Research and Development of Thessaly, Larissa, Greece.
- 2002-2008 *Assistant Professor* of Biochemistry, Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece.
- 2001-2002 *Teaching Associate (Assistant Professor level)* Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece (6 months appointment).

RESEARCH INTERESTS

My group at the Department of Biochemistry of the School of Medicine at the University of Patras is focused on important aspects of **RNA biology and RNA-protein interactions in disease** which include:

- Regulation of gene expression by tRNA-dependent riboswitches (T-boxes) from pathogens.
- Characterization of novel mammalian ribonucleases with role in mRNA turnover and piRNA biogenesis.
- Studies on the dynamic networks of tRNA biogenesis, aminoacylation and signalling in lung cancer- Identification of novel miRNAs and tRNA-derived fragments (tRFs).
- Studies on the molecular and epigenetic crosstalk of genes and miRNAs of inflammasome.
- The role of RNA in antibiotic resistance.
- Structural and biochemical characterization of the La (Lupus antigen) protein.

EDUCATION AND TRAINING

- 1998-2001 *Postdoctoral Research Associate*, Department of Molecular Biophysics and Biochemistry, Yale University, USA. Title: *Functional genomics and aminoacyl-tRNA synthesis*. Adviser: Professor Dieter Söll.
- 1998 *Postdoctoral Research Fellow*, Department of Biochemistry, School of Medicine, University of Patras, Greece. Title: *Effect of protein synthesis inhibitors on ribozymes activity*. Adviser: Professor Denis Drinas (10 months appointment).
- 1996-1998 *Mandatory Military Service*, Hellenic Air Force (21 months).
- 1996 *Doctor of Philosophy*, Department of Biochemistry, School of Medicine,

- University of Patras, Greece. Title: *Studies on Ribonuclease P from the slime mold Dictyostelium discoideum*. Supervisor: Professor Denis Drinas. Completed July 1996, Defended February 2007.
- 1991 Diploma (B.Sc.) in Biology (4 years, including research diploma thesis), Department of Biology, School of Sciences, University of Patras, Greece.

DISTINCTIONS AND HONORS

- 2016 Chairman, "Epigenetics, gene expression regulation and RNA biology" session at the 67th Annual Conference of the Greek Society for Biochemistry & Molecular Biology.
- 2015 Chairman, "Gene expression regulation and RNA biology" session at the 66th Annual Conference of the Greek Society for Biochemistry & Molecular Biology.
- 2014 Co-Organizer, 25th tRNA International Conference.
Poster Presentation Award, 25th tRNA International Conference.
Chairman, "RNA biology" session at the 65th Annual Conference of the Greek Society for Biochemistry & Molecular Biology.
2nd HSBMB Young Scientists Forum, Oral Presentation Award.
- 2013 Chairman, "RNA biology" session at the 64th Annual Conference of the Greek Society for Biochemistry & Molecular Biology.
- 2012 Chairman, "RNA biology" session at the 63rd Annual Conference of the Greek Society for Biochemistry & Molecular Biology.
- 2011 Chairman, "Microbes as research tools" session at the 5th Conference of MIKROBIOKOSMOS.
- 2011 Oral Presentation Award at the 5th Conference of MIKROBIOKOSMOS.
- 2010 Poster Presentation Award, 61st Annual Conference of the Hellenic Society for Biochemistry and Molecular Biology.
- 2008 Member of the Organizing Committee of the 33th FEBS – 11th IUBMB International Congress.
- 2008 33th FEBS – 11th IUBMB Congress, The Bodossakis Foundation Poster Award.
- 2007 2nd Conference of the Hellenic Society of Arthroscopy, 1st Oral Presentation Prize.
- 2006 Oral Presentation Award, 58th Annual Conference of the Hellenic Society for Biochemistry and Molecular Biology.
- 2006 1st Prize, 62nd Hellenic Society of Orthopaedics & Trauma Conference.
- 2005 Oral Presentation Award, 57th Annual Conference of the Hellenic Society for Biochemistry and Molecular Biology.
- 2004 Member of the Organizing Committee of the 56th Conference of the Hellenic Society for Biochemistry and Molecular Biology
- 1994 N.A.T.O. Travel Award for the International Summer School on Molecular and Cellular Biology "A world of RNA: Structure and Function".

PROFESSIONAL SERVICE

Grant reviewing

- 2016 Reviewer *Ad hoc*, State Scholarships Foundation, PhD applications.
- 2011 Reviewer *Ad hoc*, State Scholarships Foundation, MSc applications.
- 2010 Reviewer *Ad hoc*, General Secretariat of Research and Technology,

- 2009 “SYERGASIA” Grants.
Reviewer *Ad hoc*, General Secretariat of Research and Technology,
“HERAKLEITOS” Grants.
- 2005-2009 Member *Ad hoc*, Committee for the Annual General Exams for entering
the Greek Universities, Ministry of Education.

Editorships

- 2010-2014 Guest editor: *International Journal of Molecular Sciences*, Special Issues
on “Non-coding RNA”.
- 2014-2015 Guest editor: *International Journal of Molecular Sciences*, Special Issue
on “Functions of tRNA”.
- 2014-present *International Journal of Molecular Sciences* **Member of the Editorial
Board**

Reviewer for :

- Archives of Biochemistry and Biophysics
- Biochemistry
- Biochimica et Biophysica Acta
- Biomolecules
- Clinica Chemica Acta
- Clinical Experimental Pharmacology and Physiology
- Croatica Chemica Acta
- Current Medicinal Chemistry
- Experimental Dermatology
- FEBS Letters
- Immunobiology
- International Journal of Molecular Sciences
- Journal of Antimicrobial Chemotherapy
- Journal of Medical Research
- Journal of Molecular Biology
- Journal of Neurological Sciences
- Life Sciences
- Molecular Biology and Evolution
- Molecular Biology Reports
- Molecular Microbiology
- Nucleic Acids Research
- PLoS One
- Protein and Peptide Letters
- Protein Expression and Purification

ADMINISTRATIVE SERVICE

University of Patras

- 2016-present Member, ERASMUS Committee, School of Medicine.
- 2014-present Head, Committee for Academic Quality Assessment, School of
Medicine.
- 2009-present Member, Committee for Academic Quality Assessment, University of
Patras.
- 2010-2013 Vice President, ERASMUS Committee, School of Medicine.

2009-2011	Executive director, Unit for Special Biochemical Analyses.
2009-2011	Member, General Assembly of the School of Medicine.
2009-2011	Member and Evaluator, Undergraduate Curriculum Committee.
2010-2011	Member, Steering Committee, Postgraduate Program in Medical Physics.
2011-present	Member, Steering Committee, Postgraduate Program in Chemical Biology.
	Member, Committee for labour safety and hygiene, School of Medicine.

University of Thessaly

2007-2008	Member, Board of Biomedical Research Institute, Larissa.
2006-2008	Member, Board of the Graduate Program of the Department of Biochemistry and Biotechnology, University of Thessaly.
2004-2006	Member, Union of the University of Thessaly faculty members.
2002-2008	Head of the laboratory of Functional Biochemistry, Department of Biochemistry and Biotechnology, University of Thessaly.
2003-2008	<i>Ad hoc</i> member of evaluation committees for faculty positions, Department of Biochemistry and Biotechnology, University of Thessaly.
2004-2005	Member, Research Committee of the University of Thessaly.
2004-2005	Member, General Assembly of the University of Thessaly.
2002-2009	Member, General Assembly, Department of Biochemistry and Biotechnology.

Other services

2015-present	ERASMUS+ coordinator, Federal University of Rio de Janeiro, Brazil.
2009-present	ERASMUS coordinator, University of Strasbourg, France.
2002-2009	ERASMUS coordinator, University of Strasbourg, France
	ERASMUS coordinator, University of Paris-Sud XI, France
	ERASMUS coordinator, University of Tübingen, Germany
	ERASMUS coordinator, University of Düsseldorf, Germany
2009-2011	National representative and member, FP7 COST Action BM0906 "Regulatory RNAs in bacterial pathogenicity".
2010-present	Member, BIOSTRUCT-X 1196 Instruct Hellas (Structural Biology Network).
2010-present	Member, EATRIS-Greece (Translational Research Network).
2009-2011	Member, University Intramural Network on research for novel anti-microbial and anti-inflammatory compounds.
2009-2011	Member, University Intramural Network on research for novel anti-microbial and anti-inflammatory compounds.
2009-2011	Member, University Intramural Network on research for research and applications of molecular genetics in health.

Memberships

The RNA Society
International Society for Infectious Diseases (corresponding member)
European Society of Clinical Microbiology and Infectious Diseases
European Protein and Peptides Society
Hellenic Society of Biochemistry & Molecular Biology
Hellenic Society of Biological Sciences

Hellenic Union of Bioscientists
Hellenic Proteomics Society
Hellenic Society of Biotechnology
National Initiative MIKROBIOKOSMOS
National Initiative for Translational Research EATRIS-GR
National Initiative for Structural Biology BIOSTRUCT

INVITED PRESENTATIONS

2001	IBMC-CNRS Strasbourg, France.
2002	Aminoacyl-tRNA synthetases Conference 2002, Pacific Grove CA., U.S.A. CNRS Gif-sur-Yvette (Paris), France.
2004	Department of Chemistry, Aristotle University of Thessaloniki, Greece. 56 th Conference of the Hellenic Society of Biochemistry and Molecular Biology, Larissa, Greece.
2005	Department of Biology, University of Athens, Greece
2006	Department of Biochemistry, University of Tübingen, Germany. University of Thessaly, School of Medicine.
2007	Nano2Life 2007 “-omics and Nanotechnology in Biomedicine”, Larissa, Greece.
2008	5 th Annual National Conference on Medical Biopathology, Thessaloniki, Greece.
2010	2 nd Symposium on Medical Education, Larissa, Greece.
2011	63 ^o Conference of the Hellenic Society of Biochemistry and Molecular Biology (speaker and session chair).
2012	Department of Biology, University of Athens.
2013	University of Ioannina, School of Medicine, Ioannina, Greece.
2015	Max Planck Institute for Developmental Biology, 5 th TIPP Retreat, Tübingen, Germany.
2016	National Center for Scientific Research “Demokritos”, Athens, Greece. University of Strasbourg, France
2017	University of Thessaly, School of Medicine, Larissa, Greece. University of Thessaly, Department of Biochemistry and Biotechnology, Larissa, Greece.

POSTDOCS, STUDENTS AND TRAINEES

Postdoctoral research associates

2015- Vassiliki Stamatopoulou

Doctoral Students (dissertation advisor)

2015-	Ilias Skeparnias
Completed 2016	Dimitrios Anastasakis (currently postdoctoral researcher at NIH)
Completed 2015	Maria Apostolidi (currently postdoctoral researcher at Yale University)
Completed 2011	Zoe Karoulia (currently postdoctoral researcher at Icahn School of Medicine at Mount Sinai)
Completed 2009	Stamatina Giannouli (currently staff scientist at the Criminology laboratories of the Greek Police Headquarters)

Masters Students (thesis advisor)

2016-	Lena Kalliatsi
2016-	Nikoleta Giamouridou

2016-	Vicky Katopodi
2016-	George Kyriopoulos
2015-	Athanasios Shaukat
2015-	Katerina Labrinou
2013-2015	Ilias Skeparnias
2012-2015	Thenia Konstantinidou
2010-2012	Stefanos Fakiolas
2009-2011	Maria Apostolidi
2009-2011	Dimitrios Anastasakis
2008-2010	Athanasios Kyritsis
2007-2009	Georgia Katsogridaki

Doctoral Students (dissertation committee member)

9 PhD completed; 6 PhD in progress, 4 MSc completed,
2 PhD abroad completed (University of Strasbourg, France)

Senior Undergraduate Theses

2004	Stamatina Giannouli
2004	Vassiliki Stamatopoulou
2004	Kalliope Trachana
2004	Georgia Tsagkogeorga
2005	Vaia Gota
2005	Demetra Giatsiou
2005	George Konstantinidis
2005	Maria Thanasoula
2005	Anastasia Hatziprimou
2006	Antigone Diokmetzidou
2007	Dimitrios Zattas
2007	Dimitrios Anastasakis
2007	Athanasios Kyritsis
2007	Nikolaos Malissovass
2007	Anthe Katsiarimba
2007	Ioanna Karamichali
2008	Maria Apostolidi
2008	Constantinos Mitzithras
2009	Maria Papathanasiou
2009	Vasileios Paschalis
2012	Ilias Skeparnias
2014	Christianna Genethliou
2015	Konstantina Papakonstantinou
2015	Athanasios Shaukat
2016	Iason Karyofillis
2016	Penny Davelou
2016	George Kyriakopoulos
2016	Stavros Simeonidis
Current	Despoina Psychogiou
Current	Elena Mpouloukou
Current	Georgia Kokla

TEACHING

University of Patras

2009-present, Department of Biochemistry, School of Medicine University of Patras.

Undergraduate courses: Biochemistry I, II, III and Clinical Biochemistry

2009-present, School of Medicine University of Patras, Graduate courses in the Postgraduate Program “Applications of Basic Medical Sciences”: RNA biology, Molecular mechanisms of transcription and translation (coordinator), Biomedical instrumentation (coordinator), Invited speakers seminars (coordinator), Current bibliography, Current research topics, Biochemistry of disease, Advanced courses in molecular and cellular biology.

2015-present, School of Medicine University of Patras, Graduate courses in the Postgraduate Program “Public Health”: PBLs in Research Methodology (coordinator).

2015-present, Department of Chemistry, University of Patras, Graduate courses in the Postgraduate Program “Chemical Biology”: Regulation of gene expression, RNA-based technologies.

2014-present, School of Medicine, University of Ioannina, Graduate courses in the Postgraduate Program in “Biotechnology”: RNA regulation in prokaryotes.

2012-present, School of Medicine University of Patras, Graduate courses in Postgraduate Program in “Life Sciences Informatics”: RNA biology for the “Genes and Genomes” module.

2003-present, Department of Biology, University of Athens, Graduate courses in Postgraduate Program in “Microbial Biotechnology”: RNA biology and evolution.

University of Thessaly

2002-2009, Department of Biochemistry & Biotechnology, University of Thessaly.

Undergraduate courses: Biochemistry I & II, Enzymology, Metabolic Regulation, Analytical Biochemistry

Graduate courses: Flow of the genetic information (coordinator), Quantitative and quality methods of analysis-Biomarkers (coordinator), Current topics in clinical chemistry.

2001-2002, Teaching Assistant Professor, Department of Biochemistry & Biotechnology, University of Thessaly, Larissa, Greece.

EXTRAMURAL FUNDING

2002-2005 Hellenic Ministry of Education 2002, “HERAKLEITOS I” Grants: Collaborating research group (40.000 €)

2003-2006 General Secretariat of Research and Technology 2003, Greece-France Bilateral collaboration (PLATON-EGIDE): Coordinator (15.000 €)

2003 University of Thessaly, Intramural Collaboration Grants 2003: Co-Investigator (5.000 €)

2004-2007 Hellenic Ministry of Education “PYTHAGORAS I” Grants 2004: Collaborating research group (40.000 €)

2005-2006 University of Thessaly Research Committee 2005: Coordinator (3.000 €)

2007-2008 Hellenic Society of Orthopaedics & Trauma: Coordinator (BIOMED Institute) (10.000 €)

2008-2009 European Society of Clinical Microbiology and Infectious Diseases 2008 Grants, Collaborating research group (20.000 €)

2009-2011 European Union, Framework Program 7, COST Action 2009 BM0906, Collaborating research group (Total budget: 200.000 €)

2011-2013 University of Patras Research Committee, “Karatheodoris” Grants 2010: Coordinator (33.000 €)

2011-2013 Hellenic Society of Orthopaedics & Trauma 2011: Collaborating research

group (10.000€)
2012-2015 General Secretariat of Research and Technology 2011, ARISTEIA-I
“Excellence” Grants: Coordinator (175.000€)
2016-2017 Fondation Santé Research Grants 2016 (20.000€)

PUBLICATIONS

Published and in preparation: **65**

Citations: **>1400**

h index: **22**

Accumulated Impact Factor **313.6**

Median Impact factor 2012: **4.9**

Abstracts in international conferences: **45**

Abstracts in national conferences: **85**

Book chapters: **1**

C. Stathopoulos, Studies on Ribonuclease P from the slime mold *Dictyostelium discoideum*. Ph.D. Thesis, University of Patras, School of Medicine, 1996.

1. **Stathopoulos C.**, Kalpaxis D. L., and Drainas D. (1995) Partial purification and characterization of RNase P from *Dictyostelium discoideum*. *Eur J Biochem* 228: 976-980.
2. Tekos A., **Stathopoulos C.**, and Drainas D. (1998) Bimodal action of the alkaline earth cations on *Dictyostelium discoideum* ribonuclease P activity. *Biochemistry* 37: 15474-15480.
3. Tekos A., Tsagla A., **Stathopoulos C.**, and Drainas D. (1999) Inhibition of *Dictyostelium discoideum* ribonuclease P activity by aminoglycosides. *Nucleic Acids Symp Series* 41: 152-154.
4. Tumbula D., Vothknecht U.C., Kirn H., Ibba M., Min B., Li T., Pelaschier J., **Stathopoulos C.**, Becker H. D. and Söll D. (1999) Archaeal aminoacyl-tRNA synthesis: diversity replaces dogma. *Genetics* 152: 1269-1276.
5. Li T., Graham D. E., **Stathopoulos C.**, Haney P.J., Kirn H., Vothknecht U. C., Kitabatake M., Hong K., Eggertsson G., Curnow A.W., Lin W., Celic I., Whitman W. and Söll D. (1999) Cysteinyl-tRNA formation: the last puzzle of aminoacyl-tRNA synthesis. *FEBS Letters* 462: 302-306.
6. Papadimou E., Monastirli A., **Stathopoulos C.**, Tsambaos D., and Drainas D. (2000) Modulation of ribonuclease P activity by calcipotriol. *Eur J Biochem* 267: 1173-1177.
7. **Stathopoulos C.**, Tsagla A., Tekos A., and Drainas D. (2000) Effect of peptidyltransferase inhibitors on ribonuclease P activity from *Dictyostelium discoideum*. *Mol Biol Reports* 27: 107-111.
8. Tekos A., Tsagla A., **Stathopoulos C.** and Drainas D. (2000) Inhibition of eukaryotic ribonuclease P activity by aminoglycosides. Kinetic studies. *FEBS Letters* 485: 71-75.
9. **Stathopoulos C.**, Li T., Longman R., Vothknecht U.C., Becker H.D., Ibba M. and Söll D. (2000). One polypeptide with two aminoacyl-tRNA synthetase activities. *Science* 287: 479-482.
10. Ibba M., Becker H. D., **Stathopoulos C.**, Tumbula D. and Söll D. (2000) The adaptor hypothesis revisited. *Trends Biochem Sci* 25: 311-316.
11. Bunjun S. (*), **Stathopoulos C. (*)**, Graham D., Min B., Kitabatake M., Wang A.L., Wang C.C., Vivares C.P., Weiss L.M. and Söll D. (2000) A dual-specificity aminoacyl-tRNA synthetase in the deep rooted eukaryote *Giardia lamblia*. *Proc Natl Acad Sci USA* 97: 12997-13002. (*) **first co-authors.**
12. **Stathopoulos C.**, Jacquin-Becker C., Becker H.D., Li T., Ambrogelly A., Longman R. and Söll D. (2001) *Methanococcus jannaschii* Prolyl-Cysteinyl-tRNA synthetase possesses overlapping amino acid binding sites. *Biochemistry* 40: 46-52.
13. **Stathopoulos C.**, Tekos A., Zarkadis, I. and Drainas D. (2001) Extensive deproteinization of *Dictyostelium discoideum* RNase P reveals a new catalytic activity. *Eur J Biochem* 268: 2134-2140.
14. Ibba M., **Stathopoulos C.** and Söll D. (2001). Protein Synthesis: 23 Amino acids and counting. *Current Biology* 11: 563-565.

15. Ruan B., Ahel I., Ambrogelly A., Becker H. D., Bunjun S., Feng L., Tumbula D., Ibba M., Korencic D., Kobayashi H., Jacquin-Becker C., Mejlhede N., Min B., Raczniak G., Rinehart J., **Stathopoulos, C.**, Li T. and Söll D. (2001). Genomics and the evolution of aminoacyl-tRNA synthesis. *Acta Biochim Pol* 48: 313-321.
16. **Stathopoulos C.**, Kim W., Li T., Anderson I., Palioura S., Whitman W. and Söll D. (2001) CysteinyI-tRNA synthetase is not essential for the viability of the archaeon *Methanococcus maripaludis*. *Proc Natl Acad Sci USA* 98: 14292-14297.
17. Feng L., **Stathopoulos C.**, Ahel I., Mitra A., Hartsch T., Tumbula D. and Söll D. (2002). Aminoacyl-tRNA formation in the hyperthermophile *Thermus thermophilus*. *Extremophiles* 6: 167-174.
18. Jacquin-Becker C., Ahel I., Ambrogelly A., Ruan B. Söll D. and **Stathopoulos C.** (2002) CysteinyI-tRNA formation and prolyl-tRNA synthetase *FEBS Letters* 514: 34-36.
19. **Stathopoulos C.**, Ahel I., Ambrogelly A., Becker H., Bunjun S., Feng L., Herring S., Jacquin-Becker C., Kobayashi H., Korencic D., Krett B., Mejlhede N., Min B., Nakano H., Namgoong S., Polycarpo C., Raczniak G., Rinehart J., Rosas-Sandoval G., Ruan B., Sabina J., Sauerwald A., Toogood H., Tumbula-Hansen D., Ibba M. and Söll D. (2002). Aminoacyl-tRNA synthesis: a post-genome perspective. *Cold Spring Harbor Symp Quant Biol* Vol. LXVI 175-183.
20. Ahel I., **Stathopoulos C.**, Ambrogelly A., Sauerwald A., Toogood H., Hartsch T. and Söll D. (2002) Cysteine activation is an inherent property of prolyl-tRNA synthetases. *J Biol Chem* 277: 34743-34748.
21. Ambrogelly A., Ahel I., Polycarpo C., Bunjun-Srihari S., Krett B., Jacquin-Becker C., Kohrer C., **Stathopoulos C.**, RajBhandary U.L. and Söll D. (2002) *Methanocaldococcus jannaschii* prolyl-tRNA synthetase charges tRNA^{Pro} with cysteine. *J Biol Chem* 277: 34749-34754.
22. Kalavrizioti D., Vourekas A., Tekos A., **Stathopoulos C.** and Drinas D. (2003) Kinetics of inhibition of ribonuclease P activity by peptidyl-transferase inhibitors *Mol Biol Reports* 30: 9-15.
23. Kamtekar S., Kennedy D.W., Wang J., **Stathopoulos C.**, Söll D. and Steitz, T.A. (2003) The structural basis of cysteine aminoacylation of tRNA^{Pro} by prolyl-tRNA synthetases. *Proc Natl Acad Sci USA* 100: 1673-1678.
24. Korencic D., Ahel I., Schelert J., Sacher M., Ruan B., **Stathopoulos C.**, Blum P., Ibba, M. and Söll D. (2004) A freestanding proofreading domain is required for protein synthesis quality control in archaea. *Proc Natl Acad Sci USA* 101: 10260-10265.
25. Tekos A. (*), **Stathopoulos C. (*)**, Tsambaos D. and Drinas D. (2004) RNase P: a screening system and molecular target for the development of new drugs. *Curr Med Chem* 11: 2979-2989. (*) **first co-authors**
26. Ruan B., Bovee M.L., Sacher M., **Stathopoulos C.**, Poralla K., Francklyn C.S. and Söll D. (2005) A unique hydrophobic cluster near the active site contributes to differences of borrelidin inhibition among threonyl-tRNA synthetases. *J Biol Chem* 280: 571-577.
27. Ambrogelly A., Kamtekar S., **Stathopoulos C.**, Kennedy D. and Söll D. (2005) Asymmetrical behavior of archaeal prolyl-tRNA synthetase *FEBS Letters* 579: 6017-6022.
28. Kottaridi C., Bolanaki E., Mamuris Z., **Stathopoulos C.** and Markoulatos P. (2006) Molecular phylogeny of VP1, 2A and 2B genes of echovirus isolates: epidemiological linkage and observations on genetic variation *Arch Virol* 151: 1117-1132.
29. Paximadi E., Karakasiliotis I., Mamuris Z., **Stathopoulos C.**, Krikelis V. and Markoulatos P. (2006) Genomic analysis of recombinant Sabin clinical isolates *Virus Genes* 32: 203-210.
30. Vourekas A., Kalavrizioti D., **Stathopoulos C.**, (*) and Drinas D. (2006) Modulation of catalytic RNA biological activity by small molecule effectors. *M Rev Med Chem* 6: 971-978. (*) **corresponding author**

31. Kalavrizioti D, Vourekas A., Stamatopoulou, V., Toumpeki C., Giannouli S., **Stathopoulos C., (*)** and Drinas D. (2006) RNA-mediated therapeutics: from gene inactivation to clinical application *Curr Top Med Chem* 6: 1737-1758. **(*) corresponding author**
32. Bailly M., Giannouli S., Blaise M., **Stathopoulos C. (*)**, Kern D and Becker H. D. (2006) A single tRNA base-pair mediates bacterial tRNA-dependent biosynthesis of asparagine. *Nucleic Acids Res* 34: 6083-6094. **(*) corresponding author**
33. Vourekas A., Kalavrizioti D., Tekos A., Zarkadis I., **Stathopoulos C. (*)** and Drinas D. (2007) A 40.7 kDa Rpp30/Rpp1 homologue is a protein subunit of *Dictyostelium discoideum* RNase P holoenzyme. *Biochimie* 89: 301-310. **(*) corresponding author**
34. Stagos D., Spanou C., Margariti M., **Stathopoulos C.**, Mamuris Z., Kazantzoglou G., Magiatis P. and Kouretas D. (2007) Cytogenetic effects of grape extracts (*Vitis vinifera*) and polyphenols on mitomycin C-induced SCEs in human blood lymphocytes. *J Agric Food Chem* 55: 5246-5252.
35. Zifa E., Giannouli S., Theotokis P., Stamatis K., Mamuris Z. and **Stathopoulos C. (*)** (2007) Mitochondrial tRNA mutations: functional and clinical perturbations. *RNA Biology* 4: 38-66. **(*) corresponding author**
36. Kontou M., Kristo I., Ikonomidis A., Maniatis A., Pournaras S. and **Stathopoulos C. (*)** (2007) Molecular cloning and biochemical characterization of VIM-12, a novel hybrid metallo- β -lactamase from a *Klebsiella pneumoniae* clinical isolate, reveals atypical substrate specificity. *Biochemistry* 46: 13170-13178. **(*) corresponding author**
37. Stamatis C., Giannouli S., Suchentrunk F., Sert H., **Stathopoulos C. (*)** and Mamuris Z. (2008) Recruitment of mitochondrial tRNA genes as auxiliary variability markers for both intra- and inter-species analyses: the paradigm of brown hare (*Lepus europaeus*) *Gene* 410: 154-164. **(*) corresponding author**
38. Zifa E., Theotokis P., Kaminari A., Maridaki H., Leze H., Petsiava E., Mamuris Z. and **Stathopoulos C. (*)** (2008) A novel G3337A mitochondrial ND1 mutation related to cardiomyopathy co-segregates with tRNA^{Leu(CUN)} A12308G and tRNA^{Thr} C15946T mutations. *Mitochondrion* 8: 229-236. **(*) corresponding author**
39. Ikonomidis A., Michail G., Vasdeki A., Labrou M., Karavasilis V., **Stathopoulos C.**, Maniatis A. and Pournaras S. (2008) *In vitro* and *in vivo* evaluation of oxacillin efficiency on *mecA*-positive oxacillin-susceptible *Staphylococcus aureus*. *Antimicrob Agents Chem* 52: 3905-3908.
40. Balatsos N. A. A., Anastasakis D. and **Stathopoulos C. (*)** (2009) Inhibition of human poly(A)-specific ribonuclease (PARN) by purine nucleotides: kinetic analysis. *J Enz Inh Med Chem* 24: 516-523. **(*) corresponding author**
41. Giannouli S., Kyritsis A., Malissovass N., Becker H. D. and **Stathopoulos C. (*)** (2009) On the role of an unusual tRNA^{Gly} isoacceptor in *Staphylococcus aureus*. *Biochimie* 91: 344-351. **(*) corresponding author**
42. Papatheodorou L. K., Malizos K. N., Poultsidis L. A., Hantes M. E., Giannouli S., Grafanaki K., Ioannou M. G., Koukoulis G. K., Protopappas V. C., Fotiadis D. I. and **Stathopoulos C.** (2009) Effect of transosseous application of low-intensity ultrasound at the tendon graft-bone interface healing: Gene expression and histological analysis in rabbits. *Ultrasound Med Biol* 35: 576-584.
43. Balatsos N. A. A., Vlachakis D., Maragozidis P., Manta S., Anastasakis D., Kyritsis A., Vlassi M., Komiotis D. and **Stathopoulos C. (*)** (2009) Competitive inhibition of human poly(A)-specific ribonuclease (PARN) by synthetic fluoro-pyranosyl nucleosides. *Biochemistry* 48: 6044-6051. **(*) corresponding author**
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