

CURRICULUM VITAE

2021

NAME: CHATZIANASTASIOU, Athanasia

HOME ADDRESS: Xelaftaki 37 19400 Koropi, PO Box 2526, Attica Greece

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WORK ADDRESS: Critical Care Department, Evangelismos Hospital,
University of Athens, Greece

EDUCATION:

1987-1989 Medical Laboratory Technician, School of Medical
Laboratory Professionals, Athens Greece

2000-2006 BSc in Natural Sciences, School of Sciences and
Technology, Hellenic (Greek) Open University, Patras,
Greece

2008-2011 MSc in Pharmaceutical Chemistry, Department of Pharmacy,
University of Patras, Greece

2013-2017 PhD in Pharmacology, School of Medicine, Democritus
University of Thrace, Greece

AWARDS:

2015: "Cardioprotection by H₂S in CyD KO mice", Short Term Scientific Mission award,
sponsored by EU-ROS (European Network on Reactive Oxygen Species), BM1203.

OTHER TRAINING:

1992 Pulmonary Function Laboratory, Department of Medicine,
McGill University (June-September, Montreal, Canada)

2013 Summer school organized by the European Society of
Cardiology (20/6-23/6, Nice, France)

2014 Training School, Gasotransmitters: chemistry and biology,
organized by the European Network on Gasotransmitters
BM1005 (27/3-30/3, Capri, Italy)

2015 Laboratory Animal Handling Practical course, Biomedical
Research Foundation, Academy of Athens

2015 Laboratory Animal Science EU Function Course, (9/11-
17/11, Athens, Greece)

REVIEWER in peer reviewed journals:

Pharmacological Research

PUBLICATIONS:

1. Cardiovascular phenotype of mice lacking 3-mercaptopyruvate sulfurtransferase. Peleli M, Bibli SI, Li Z, Chatzianastasiou A, Varela A, Katsouda A, Zukunft S, Bucci M, Vellecco V, Davos CH, Nagahara N, Cirino G, Fleming I, Lefer DJ, Papapetropoulos A. *Biochem Pharmacol*. 2020 Jun;176:113833. Epub 2020 Feb 4. PMID: 32027885

doi: [10.1016/j.bcp.2020.113833](https://doi.org/10.1016/j.bcp.2020.113833)

2. Nitroglycerine limits infarct size through S-nitrosation of cyclophilin D: a novel mechanism for an old drug. Bibli SI, Papapetropoulos A, Iliodromitis EK, Daiber A, Randriamboavonjy V, Steven S, Brouckaert P, Chatzianastasiou A, Kypreos KE, Hausenloy DJ, Fleming I, Andreadou I. *Cardiovasc Res*. 2019 Mar 1;115(3):625-636. PMID: 30165375

doi: [10.1093/cvr/cvy222](https://doi.org/10.1093/cvr/cvy222)

3. Cardioprotection by H₂S engages a cGMP-dependent protein kinase G/phospholamban pathway. Bibli SI, Andreadou I, Chatzianastasiou A, Tzimas C, Sanoudou D, Kranias E, Brouckaert P, Coletta C, Szabo C, Kremastinos DT, Iliodromitis EK, Papapetropoulos A. *Cardiovasc Res*. 2015 Jun 1;106(3):432-42. Epub 2015 Apr 13. PMID: 25870184

doi: [10.1093/cvr/cvv129](https://doi.org/10.1093/cvr/cvv129).

4. Spontaneous Breathing Through Increased Airway Resistance Augments Elastase-Induced Pulmonary Emphysema. Toumpanakis D, Mizi E, Vassilakopoulou V, Dettoraki M, Chatzianastasiou A, Perlikos F, Giatra G, Moscholaki M, Theocharis S, Vassilakopoulos T. *Int J Chron Obstruct Pulmon Dis*. 2020 Jul 12;15:1679-1688. eCollection 2020. PMID: 32764913

doi: [10.2147/COPD.S256750](https://doi.org/10.2147/COPD.S256750)

5. p38 Inhibition Ameliorates Inspiratory Resistive Breathing-Induced Pulmonary Inflammation.

Toumpanakis D, Vassilakopoulou V, Mizi E, Chatzianastasiou A, Loverdos K, Vraila I, Perlikos F, Tsoukalas D, Giannakopoulou CE, Sotiriou A, Dettoraki M, Karavana V, Vassilakopoulos T. *Inflammation*. 2018 Oct;41(5):1873-1887. PMID: 29974374

doi: [10.1007/s10753-018-0831-6](https://doi.org/10.1007/s10753-018-0831-6).

6. The protective role of the 3-mercaptopyruvate sulfurtransferase (3-MST)-hydrogen sulfide (H₂S) pathway against experimental osteoarthritis. Nasi S, Ehirciou D, Chatzianastasiou A, Nagahara N, Papapetropoulos A, Bertrand J, Cirino G, So A, Busso N. *Arthritis Res Ther*. 2020 Mar 17;22(1):49. PMID: 32183900

doi: [10.1186/s13075-020-02147-6](https://doi.org/10.1186/s13075-020-02147-6)

7. Cardioprotection by H₂S Donors: Nitric Oxide-Dependent and -Independent Mechanisms. Chatzianastasiou A, Bibli SI, Andreadou I, Efentakis P, Kaludercic N, Wood ME, Whiteman M, Di Lisa F, Daiber A, Manolopoulos VG, Szabó C, Papapetropoulos A. *J Pharmacol Exp Ther*. 2016 Sep;358(3):431-40. Epub 2016 Jun 24. PMID: 27342567

doi: [10.1124/jpet.116.235119](https://doi.org/10.1124/jpet.116.235119).

8. Saffron (*Crocus sativus*) intake provides nutritional preconditioning against myocardial ischemia-reperfusion injury in Wild Type and ApoE^(-/-) mice: Involvement of Nrf2 activation. Efentakis P, Rizakou A, Christodoulou E, Chatzianastasiou A, López MG, León R, Balafas E, Kadoglou NPE, Tseti I, Skaltsa H, Kostomitsopoulos N, Iliodromitis EK, Valsami G, Andreadou I. *Nutr Metab Cardiovasc Dis*. 2017 Oct;27(10):919-929. Epub 2017 Aug 31. PMID: 28964663

doi: [10.1016/j.numecd.2017.08.005](https://doi.org/10.1016/j.numecd.2017.08.005).

9. Hydrogen Sulfide Preserves Endothelial Nitric Oxide Synthase Function by Inhibiting Proline-Rich Kinase 2: Implications for Cardiomyocyte Survival and Cardioprotection. Bibli SI, Szabo C, Chatzianastasiou A, Luck B, Zukunft S, Fleming I, Papapetropoulos A. *Mol Pharmacol*. 2017 Dec;92(6):718-730. Epub 2017 Oct 13. PMID: 29030392

doi: [10.1124/mol.117.109645](https://doi.org/10.1124/mol.117.109645).

10. Exposure to cigarette smoke abrogates the beneficial effect of ischemic postconditioning. Bibli SI, Andreadou I, Glynos C, Chatzianastasiou A, Toumpanakis D, Zakynthinos S, Vasilakopoulos T, Iliodromitis EK, Papapetropoulos A. *Am J Physiol Heart Circ Physiol*. 2016 Nov 1;311(5):H1321-H1332. Epub 2016 Sep 30. PMID: 27694220

doi: [10.1152/ajpheart.00925.2015](https://doi.org/10.1152/ajpheart.00925.2015).

11. Modulation of poly(ADP-ribose) polymerase-1 (PARP-1)-mediated oxidative cell injury by ring finger protein 146 (RNF146) in cardiac myocytes. Gerö D, Szoleczky P, Chatzianastasiou A, Papapetropoulos A, Szabo C. *Mol Med*. 2014 Jul 31;20(1):313-28. PMID: 24842055

doi: [10.2119/molmed.2014.00102](https://doi.org/10.2119/molmed.2014.00102)

12. Tricyclic indole and dihydroindole derivatives as new inhibitors of soluble guanylate cyclase. Spyridonidou K, Fouteris M, Antonia M, Chatzianastasiou A, Papapetropoulos A, Nikolaropoulos S. *Bioorg Med Chem Lett*. 2009 Aug 15;19(16):4810-3. Epub 2009 Jun 14. PMID: 19560917

doi: [10.1016/j.bmcl.2009.06.047](https://doi.org/10.1016/j.bmcl.2009.06.047)

ABSTRACTS:

1. Thioglycine induces pharmacological post-conditioning in rabbits. Bibli SI et al; Nitric Oxide. 31 Suppl 2:S43- 4, 2013
2. Cigarette smoking negates the beneficial effect of ischemic postconditioning in limiting infarct size through insufficient activation of AKT and eNOS. Bibli SI et al.; European Society of Cardiology 2014, Barcelona, Spain
3. Cigarette smoking-induced changes in NO and H₂S-triggered signaling alters cardioprotection. Bibli SI et al; European Society of Cardiology 2014, Barcelona, Spain
4. Distinct mechanisms of cardioprotection by different H₂S donors. Chatzianastasiou A, et al., European Society of Cardiology 2015, London, UK
5. Anti-atherosclerotic and cardioprotective properties of saffron aqueous extract in atheromatic and ischaemia/reperfusion in vivo models. Christodoulou E et al., European Society of Cardiology 2016, Rome, Italy
6. Cyclophilin-D-independent effects of H₂S donors in cardioprotection , A. Chatzianastasiou, et al., 7th European Congress of Pharmacology. EPHAR 2016 Congress in Istanbul, Turkey
7. Hydrogen sulfide-mediated reduction of eNOS tyrosine phosphorylation: implications for cardioprotection. Bibli SI et al., AHA Scientific Sessions 2016, New Orleans, USA
8. Saffron (*Crocus sativus*) intake provides nutritional preconditioning against myocardial ischemia-reperfusion injury in wild type and Apo-E(-/-) mice: involvement of Nrf2 activation. P.Efentakis, et al., European Society of Cardiology 2017, Barcelona, Spain.

ORAL PRESENTATIONS (international meetings):

“Protection against ischemia/reperfusion injury by H₂S donors: the role of mitochondria”
(4th International Conference on the Biology of Hydrogen Sulfide, 2-5 June 2016 Naples, Italy)

MEMBERSHIP IN SOCIETIES:

International Society for Transgenic Technologies

CONFERENCES ATTENDED:

January 19-20, 2012, Madrid, Spain; Work shop, Gasotransmitters in health and disease
April 11-12, 2013 Smolenice, Slovakia; 1st European Conference on the biology of H₂S
September 7-11, 2013 Exeter, England; 2nd European Conference on the biology of H₂S
October 23-26, 2013, Lisbon, Portugal; 3rd Work shop COST for Gasotransmitters
May 15-17, 2014, Naples, Italy; International Symposium on H₂S and NO in health and disease
May 23-24, 2014, Athens, Greece; 8th Congress of the Hellenic Society for Basic and Clinical Pharmacology
June 3-5, 2014, Kyoto, Japan; 2nd International H₂S meeting
July 13-18, 2014, Cape Town, South Africa; 18th World Congress of Pharmacology, 2014
May 3-6, 2015, Athens, Greece; 3rd European Conference on the Biology of H₂S
June 2-5, 2016 Naples, Italy; 4th International Conference on the Biology of H₂S

CERTIFICATIONS: European Union Laboratory Animal Science (2015)

LANGUAGES: Greek, English, Italian
