

Curriculum Vitae Skeleton

Name: Dr Galatou Eleftheria

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Education: **Undergraduate work:** BSc Pharmacy, School of
Pharmacy, Faculty of Health
Sciences, Aristotle University of
Thessaloniki, 2016

BSc Biology, School of Biology
Faculty of Sciences, Aristotle
University of Thessaloniki,
2005

Graduate work: PhD in Molecular Biology and
Heart Physiology, School of
Biology, Faculty of Sciences,
Aristotle University of
Thessaloniki, 2014

MSc in Applied Genetics and
Biotechnology, School of Biology,
Faculty of Sciences, Aristotle
University of Thessaloniki, 2008

Postgraduate work: “Preclinical studies on the
therapeutic effect of PPAR
ligands in heart failure”, School
of Biology, Aristotle University
of Thessaloniki, 2016

Positions Held:

2020-	External evaluator of clinical trials at National Drugs Agency (EOF), Greece
September 2017	Lecturer , Program of Pharmacy, Department of Life and Health Sciences, School of Science and Engineering University of Nicosia
2016- 2017	Part-time Lecturer , Program of Pharmacy, Life and Health Sciences, School of Science and Engineering, University of Nicosia
2014-2016	Postdoctoral Researcher , Aristotle University of Thessaloniki, <i>“Preclinical studies on the therapeutic effect of PPAR ligands in heart failure”</i>
2009-2013	Research Assistant , Aristotle University of Thessaloniki, Greece, Animal Physiology practical training of undergraduate students
2011	Researcher (2months period) , Heart Research Institute, Slovak Academy of Sciences, Bratislava, <i>“The potential cardioprotective role of PPARs in normal and diabetic myocardium after ischemia/reperfusion injury”</i> .
2006-2016	Held part-time teaching posts in Biology at local high schools and colleges
2006-2016	Tutor for undergraduate courses (Cell Biology, Molecular Biology, Genetics of Pharmacy and Biology School at Aristotle University of Thessaloniki, Greece

Areas of Concentration/ Research Interests:

- Molecular Pharmacology of heart diseases. It includes the determination of signaling pathways and molecular mechanisms in heart diseases and the investigation of new pharmacological therapeutic targets in metabolic diseases and diabetic cardiomyopathy.
- Investigation of the therapeutic effects of new pharmacological targets (herbs, new chemical compounds, peptides, drugs) in cancer cells via molecular, anti-inflammatory and anti-oxidative mechanisms. New insights in gene therapy.

Professional Associations

Organization/field	Title
Hellenic Society for Biological Sciences	Member
Hellenic Society of Biochemistry and Molecular Biology	Member

Funding

2018-2021 Management Committee Member in the COST action: EU-CARDIOPROTECTION COST CA-16225

2018-2020 Collaborator- “Linking glycogen metabolism and endoplasmic reticulum stress to obesity and diabetes through the glycogen-binding protein Stbd1”. Research Promotion Foundation

2014-2015 Collaborator /Post-doctoral researcher- “Development of Novel Diagnostics and Treatment for Cardiomyopathy and Heart Failure”. Greek General Secretariat for Science and Technology, “Cooperation”.

Awards/Distinctions:

1. European Union (European Social Fund – ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: Heracleitus II, Sep 2010- Aug 2013
2. Two- month scholarship, Slovak Academic Information Agency (SAIA), June-Aug 2011

Languages:

Greek (native)
English (fluent)
Italian (intermediate)

Research & Publications

Doctoral Dissertation: “The role of nuclear receptor PPAR β in normal and diabetic rat heart”

Chapters in Books

1. Mourelatou E, Galatou E, Zacharia L, Sarigiannis I, Petrou C. Clinical trials of nanovesicles for drug delivery uses in “Applications of Nanovesicular Drug Delivery” (book chapter submitted, to be published by Elsevier Ltd., USA) *submitted*

2. Papaneophytou C., **Galatou E.**, Felekis K. (2020) Good laboratory and experimental practices for microRNA analysis in cardiovascular research in “Epigenetics in Cardiovascular Disease” Epigenetics in Cardiovascular Disease, e-book Chapter 18 (24) 395-414

Monographs

N/A

Journal Articles – in print or submitted for publication

- * Papatheodorou I, **Galatou E.**, Panagiotidis G-D, Ravingerová T, Lazou A. Cardioprotective Effects of PPAR β/δ Activation against Ischemia/Reperfusion Injury in Rat Heart Are Associated with ALDH2 Upregulation, Amelioration of Oxidative Stress and Preservation of Mitochondrial Energy Production. International Journal of Molecular Sciences. 2021; 22(12):6399.
- * **Eleftheria Galatou**, Antigone Lazou. Long Noncoding and Circular RNAs as therapeutic targets in myocardial and cerebral ischemia/reperfusion injury. Conditioning Medicine 2020, 3(1): 47-57
- * Ioannou Andreadou, Pavle Adamovski, Monika Bartekova, Christophe Beauloye, Luc Bertrand, David Biedermann, Vilmante Borutaite, Hans Erik Bøtker, Stefan Chlopicki, Maija Dambrova, Sean Davidson, Yvan Devaux, Fabio Di Lisa, Dragan Djuric, David Erlinge, Inês Falcao-Pires, **Eleftheria Galatou** et al. Realizing the therapeutic potential of novel cardioprotective therapies: The EU-CARDIOPROTECTION COST Action - CA16225. Conditioning Medicine, 2018, 1(3):116-123
- * Feidantsis K, Mellidis K, **Galatou E.**, Sinakos Z, Lazou A. Treatment with crocin improves cardiac dysfunction by normalizing autophagy and inhibiting apoptosis in STZ-induced diabetic cardiomyopathy. *Nutr Metab Cardiovasc Dis* 2018 Sep;28(9):952-961.
- * Barlaka E, **Galatou E.**, Mellidis K, Ravingerova T, Lazou A (2016) “Role of pleiotropic properties of peroxisome proliferator-activated receptors in the heart: focus on the non-metabolic effects in cardiac protection”, *Cardiovasc Ther*, 34(1):37-48, Wiley Online Library
- * Feidantsis, Konstantinos; Apostolidou, Nantia; Galatou, Eleftheria; Lazou, Antigone. Study of possible beneficial effect of crocin in an animal model of diabetes. Clinical nutrition ESPEN, 13 e65, 2016

- * **Galatou E**, Kelly T, Lazou A (2014) “The PPAR β/δ agonist GW0742 modulates signaling pathways associated with cardiac myocyte growth via a non-genomic redox mechanism”, *Mol Cell Biochem*, 395(1-2):145-54, Springer
- * Mellidis K, Ordodi V, **Galatou E**, Săndesc D, Bubenek S, Duicu O, Muntean D, Lazou A (2014) “Activation of prosurvival signaling pathways during the memory phase of volatile anesthetic preconditioning in human myocardium: a pilot study”, *Mol Cell Biochem*, 388(1-2):195-201, Springer
- * Barlaka E, Ledvényiová V, **Galatou E**, Ferko M, Čarnická S, Ravingerová T, Lazou A (2013) “Delayed cardioprotective effects of WY-14643 are associated with inhibition of MMP-2 and modulation of Bcl-2 family proteins through PPAR- α activation in rat hearts subjected to global ischaemia-reperfusion”, *Can J Physiol Pharmacol*, 91(8):608-16, NRC Research Press
- * Ravingerová T, Čarnická S, Ledvényiová V, Barlaka E, **Galatou E**, Chytilová A, Mandíková P, Nemčková M, Adameová A, Kolář F, Lazou A (2013) “Upregulation of genes involved in cardiac metabolism enhances myocardial resistance to ischemia/reperfusion in the rat heart”, *Physiol Res*, 12;62 Suppl 1:S151-63, Akademie Ved Ceske Republiky
- * Ravingerová T, Čarnická S, Nemčková M, Ledvényiová V, Adameová A, Kelly T, Barlaka E, **Galatou E**, Khandelwal VK, Lazou A (2012) “PPAR- α activation as a preconditioning-like intervention in rats in vivo confers myocardial protection against acute ischaemia-reperfusion injury: involvement of PI3K-Akt”, *Can J Physiol Pharmacol*, 90(8):1135-44, NRC Research Press
- * Ravingerova T, Adameova A, Čarnicka S, Nemcekova M, Kelly T, Matejikova J, **Galatou E**, Barlaka E, Lazou A (2011) “The role of PPAR in myocardial response to ischemia in normal and diseased heart”, *Gen Physiol Biophys*, 30(4):329-41, Elsevier
- * Markou T, Makridou Z, **Galatou E**, Lazou A (2011) “Multiple signalling pathways underlie the protective effect of levosimendan in cardiac myocytes”, *Eur J Pharmacol*, 30;667(1-3):298-305, Elsevier

- * Galatou E, Mourelatou E, Vizirianakis I. "The association of nonalcoholic steatohepatitis with atherosclerosis: explaining the role of incretin based drugs" (review manuscript to be submitted on August 2021 in Antioxidants Journal, Special Issue "Antioxidant and Anti-Inflammatory Properties of Incretin-Based Therapies—Implications for Acute and Chronic Disease") **In progress**

* Journals (refereed)

Conference Proceedings and Presentations

Evroula Hapeshi, Sotiris Kyriacou, Michail Panagiotidis, Alexandra Primikyri, **Eleftheria Galatou**, Vicky Nicolaidou, Lefteris Zacharia, Constantina Eleftheriou, Socrates Tsinoglou, Yiannis Sarigiannis (2021)
First Exploration of the Mesobuthus Cyprius Venom. *1st International Electronic Conference on Toxins, Toxins MDPI*, 16-31 January 2021

Feidantsis K, **Galatou E**, Lazou A (2016)
“Study of possible beneficial effect of crocin in an animal model of diabetes”, 38th *Scientific Conference of Hellenic Society for Biological Sciences*, pp 290-291, May 26-28, 2016 Kavala, Greece

Galatou E, Panagiotidis GD, Barlaka E, Lazou A (2015)
“The protective effects of PPAR β/δ activation against cardiac ischemia / reperfusion injury are mediated through antioxidant mechanisms”, *66th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, December 11-13, 2015 Athens, Greece.

Panagiotidis GD, **Galatou E**, Barlaka E, Pappa A, Lazou A (2015)
“Activation of ppar β/δ protects the heart from ischemia / reperfusion injury: the potential role of ALDH2”, 37th *Scientific Conference of Hellenic Society for Biological Sciences*, pp 290-291, May 21- 23, 2015 Volos, Greece.

Mellidis K, **Galatou E**, Sakellariou E, Mavroidis M, Capetanaki Y, Lazou A (2015)
“Activation of PPAR β/δ attenuates cardiac tissue damage and inflammation in a heart failure mouse model”, 37th *Scientific Conference of Hellenic Society for Biological Sciences*, pp 228-229, May 21- 23, 2015 Volos, Greece.

Mellidis K, **Galatou E**, Sakellariou E, Mavroidis M, Capetanaki Y, Lazou A (2015).
“Activation of PPAR β/δ ameliorates cardiac inflammation and remodeling in a genetic heart failure model”, *Journal of Molecular and Cellular Cardiology* 86 (2015) S1–S78. Abstracts from the 33rd Meeting of the ISHR-ES, July 1-4, 2015, Bordeaux, France, Elsevier

Ravingerová T, Carnická S, Ledvényiová V, Barlaka E, **Galatou E**, Mandíková P, Chytilová A, Nemčková M, Kolář F, Lazou A (2014)

P426 Delayed preconditioning-like protection against ischemia/reperfusion injury in the rat heart is associated with PPAR-alpha-mediated changes in metabolic genes and non-metabolic effects. *Cardiovascular Research Supplements* 2014;103 (1): S78, Oxford University Press

Ravingerova T, Carnicka S, Ledvenyiova V, Barlaka E, Galatou E, Mandikova P, Chytilova A, Nemcekova M, Kolar F, Lazou A (2014)

“Delayed preconditioning-like protection against ischemia/reperfusion injury in the rat heart is associated with PPAR-alpha-mediated changes in metabolic genes and non-metabolic effects”, *Frontiers in Cardiovascular Biology, Cardiovasc res* 103 (suppl 1): S78 Barcelona, Spain, Oxford University Press

Mellidis K, **Galatou E**, Sakellariou E, Mavroidis M, Capetanaki Y, Lazou A (2014). “Activation of PPAR β/δ attenuates cardiac tissue damage and inflammation in a heart failure mouse model”, *65th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, November 28-30, 2014 Thessaloniki, Greece.

Galatou E, Lazou A (2013)

“Activation of PPARbeta/delta modulates autophagy and attenuates cardiac remodelling in diabetic rat heart”, 30 June-4 July 2013 *XXI ISHR World Congress, J Mol Cell Cardiol* S58-59 San Diego, USA, Elsevier

Galatou E, Lazou A (2013)

“*In vivo* activation of nuclear receptor PPAR β/δ inhibits cardiac hypertrophy and ameliorates metabolic dysfunction in diabetic myocardium”, *35th Scientific Conference of Hellenic Society for Biological Sciences*, pp 54-55, May 23- 25, 2013 Nauplio, Greece.

Galatou E, Lazou A (2013)

“Activation of PPARbeta/delta modulates autophagy and attenuates cardiac remodeling in diabetic rat heart”, *64th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, December 6-8, 2013 Athens, Greece.

Barlaka E, **Galatou E**, Ledvényiová V, Ravingerová T, Lazou A (2012)

“Inhibition of metalloprotease MMP-2 and upregulation of Bcl-2 underlie the protective effect of the nuclear receptor PPAR α in the heart”, *34th Scientific Conference of Hellenic Society for Biological Sciences* pp 160-161, May 17- 19, 2012 Trikala, Greece.

Galatou E, Lazou A (2012)

“The role of nuclear receptor PPAR β in normal and diabetic hearts”, *Conference of Research Funding Program: Heracleitus II*, December 10, 2012, Thessaloniki, Greece

Galatou E, Lazou A (2011)

“PPAR β/δ activation inhibits cardiac hypertrophy through redox mechanisms”, *33rd Scientific Conference of Hellenic Society for Biological Sciences* pp 48-49, May 19-21, 2011 Edessa, Greece.

Barlaka E, **Galatou E**, Lazou A (2010)

“PPAR α and PPAR β/δ protective role in oxidative stress and cardiac hypertrophy”, *32nd Scientific Conference of Hellenic Society for Biological Sciences* pp 248-249, May 21-23, 2010 Karpenisi, Greece.

Mellidis K, **Galatou E**, Lazou A (2010)

“Effect of volatile anesthetics on the activation of signaling pathways associated with cardiomyocytes protection”, *32nd Scientific Conference of Hellenic Society for Biological Sciences* pp 220-221, May 21-23, 2010 Karpenisi, Greece.

Galatou E, Kelly T, Lazou A (2009)

“Effects and mechanisms of a PPAR β/δ specific ligand on hypertrophy of cardiac myocytes in normal and diabetic rats”, 30 May-2 June 2009, *Heart Failure Congress, European Journal of Heart Failure Suppl*, 8(2), abstract 1265, Nice, France Nice, France, Wiley Online Library

Galatou E, Kelly T, Lazou A (2008)

“Activation of peroxisome proliferator-activated receptor beta/delta inhibits phenylephrine-induced MAPK and Akt signalling and prevents cardiac hypertrophy”, *Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference*, 28 June-3 July 2008, Athens, Greece. FEBS J 275: 324, Wiley online library

Galatou E, Kelly T, Lazou A (2008)

“PPAR β/δ activation inhibits phenylephrine-induced MAPK and Akt signaling and prevents cardiac myocyte hypertrophy”, *30th Scientific Conference of Hellenic Society for Biological Sciences* pp 68-69, May 22 -24, 2008 Thessaloniki, Greece.

Newspaper Articles

Galatou E. Article “Recent updates on the development of SARS-CoV2 vaccines: Questions and answers”, YGEIA-NEWS

Round Table Discussions

N/A

Symposium Presentation

N/A

Discussant

N/A

Invited Talks, Seminars & Colloquia

1. **Galatou E.** “Anti-vaccine movement -Overuse of antibiotics”, conference of Pharmaceutical Association of Larisa, Greece. Larisa, Greece, 6 April 2019

2. **Galatou E.** *“The role of nuclear receptors in Diabetes type”, 19th Annual meeting for Diabetes mellitus and metabolic diseases, University of Nicosia, 5 October 2019*
3. **Galatou E.** “Pharmaceutical therapies for Rheumatoid Arthritis. Public lecture given for qualified nurses. The courses are organized by University of Nicosia and Ministry of Health for teaching qualified nurses, October 2018
4. **Galatou E.** Oral presentation «The role of pharmacists in preventing antibiotic resistance». 8th Pancyprian Pharmaceutical Conference, November 17-18, 2018 Nicosia, Cyprus.
5. **Galatou E.** “Diagnostic Peptides”, 1st workshop on bioactive peptides October 2018, Nicosia
6. **Galatou E.** Selected Oral Presentation “Autophagy modulation and cardiac remodelling attenuation in diabetic cardiomyopathy after activation of Peroxisome Proliferator- Activated Receptor beta/delta (PPAR β/δ)”, 6th Conference of the Cyprus Society of Human Genetics (CSHG), Nicosia, November, 2017
7. **Galatou E.** “From Pharmacology and Genomics to Pharmacogenomics”, Cyprus Conference for Prevention, Diagnosis and Treatment of Cancer, University of Nicosia, May 2017

Visiting lectures

1. **Galatou E.** “Molecular approaches and methodological applications in the development of new antidiabetic and cardiovascular drugs: Challenges and prospects”, at interdepartmental Program of Postgraduate Studies entitled "Precision Medicine - Translational Research and Therapeutics", School of Medicine and the Department of Pharmacy of the Faculty of Health Sciences of Auth, Thessaloniki, Greece, June 2021
<http://precision.med.auth.gr/faculty.html>
2. **Galatou E.** “Introduction to cosmetic microbiology” at post-graduate program entitled “Cosmetology- Development and Evaluation of Cosmetic Products”, University of Patras, Greece, November 2020

3. **Galatou E.** “Nutrigenomics- Effects on drug metabolism” at post-graduate programme “Primary Health Care - Social Medicine and Pharmaceutical Care”, Democritus University of Thrace, Greece, October 2020
4. **Galatou E.** “Nutrigenomics- Effects on drug metabolism” at post-graduate programme “Primary Health Care - Social Medicine and Pharmaceutical Care”, Democritus University of Thrace, October 2019

Other Scholarly Activities

Conference Organizing

N/A

Editorial Boards

Guest editor of the special issue "Cancer Gene Therapy With Non-Viral Nanocarriers". This special issue belongs to the section “Gene and Cell Therapy” of the journal **Pharmaceutics** (**Impact factor: 6.321**)

Reviewer

Reviewer for the Journals:

Antioxidants

Journal of Cardiovascular Development and Disease

Journal of Biological Research

International Journal of Molecular Sciences

Molecular and Cellular Biochemistry

Collaborations

- Collaboration with the Cyprus Institute of Neurology and Genetics
- Collaboration with School of Pharmacy, Lab of Pharmacology, AUTH, Thessaloniki, Greece
- Collaboration with School of Biology, Lab of Animal Physiology, AUTH, Thessaloniki, Greece
- Collaboration with Human Biology Program, Department of Life & Health Sciences, University of Nicosia

Consultancies

N/A

Experience

Administrative

N/A

Advisory

Supervision of Bachelor theses

52 (finished)

3 (in progress)

Undergraduate teaching/course development

- 2016-2017** Pharmacology for Pharmacy Technicians, Intercollege Nicosia (Part time Lecturer) (2hours/week)
- 2018-** Toxicology (4th year students); Pharmacy Undergraduate curriculum course, Pharmacy Program, University of Nicosia (3hours/week)
Development of lectures
- 2017-** Therapeutics- Clinical Pharmacy (4th year students); Pharmacy Undergraduate curriculum course, Pharmacy Program, University of Nicosia (3hours/week) *Development of lectures and case studies*
- 2017-** Introduction to Pharmaceutical Biotechnology and Pharmacogenomics (4th year students); Pharmacy Undergraduate curriculum course, Pharmacy Program, University of Nicosia (3hours/week)
Development of lectures
- 2016-2018** Clinical Pharmacy (4th year students); Pharmacy Undergraduate curriculum course, Pharmacy Program, University of Nicosia (3hours/week) *Development of lectures and case studies*
- 2016-** Biochemical and Molecular Pharmacology (2nd year students); Pharmacy Undergraduate curriculum course, Pharmacy Program, University of Nicosia (3hours/week)

Postgraduate teaching/course development

- 2019-** “Risk assessment” lecture for the course “Preclinical and Clinical Development and Documentation” MSc Program in Drug Regulatory Affairs (Distance Learning), Pharmacy Program, University of Nicosia
- “Preclinical genotoxicity testing” lecture for the course “Drug Discovery and Development” MSc Program in Drug Regulatory Affairs (Distance Learning), Pharmacy Program, University of Nicosia

“Misleading practices employed by pharmaceutical companies”
lecture for the course “Pharmaceutical Industry Ethics” MSc Program
in Drug Regulatory Affairs (Distance Learning), Pharmacy Program,
University of Nicosia

Seminars:

1. Participation in the organization and preparation of training seminars of vaccination for Cypriot pharmacists (collaboration of University of Nicosia with Cyprus Pharmaceutical Association (PFS)) May-June 2021
2. **Galatou E**, Mourelatou E. “Gene therapy”. Webinar presentation for pharmacists training, Institute for Lifelong Learning and Professional Development of Pharmacists (IDEAAF), September 2020
3. Invitation by **Science Hoaxes** team to participate as a **speaker** in an online discussion for “Alternative” Medicine: what is the position of Science? Episode 12, July 2020
4. **Galatou E** and Petrou C. Webinar for Aggizo tin Ygeia 2 “Action 7: Seeking drugs and vaccines for the coronavirus: Recent Developments”, 30 June, 2020
5. Participation in a webinar for drug discovery and vaccines for COVID-19 “Seeking the Coronavirus Drug: From the Laboratory to the Community Pharmacy”, 1 May 2020
6. **Galatou E**. Webinar presentation: *“The role of Pharmacists in hindering the spread of coronavirus SARS CoV 2”*, 18 March 2020
7. **Galatou E**. Webinar presentation for pharmacists training, Institute for Lifelong Learning and Professional Development of Pharmacists (IDEAAF). Pharmacist’s role in preventing antibiotic resistance, July 2019
8. **Galatou E**. Webinar presentation for pharmacists training, Institute for Lifelong Learning and Professional Development of Pharmacists (IDEAAF). “Pharmaceutical Errors”, July 2018

Extra Curricular Activities

MC Member of COST Action CARDIOPROTECTION- CA16225 representing Cyprus