Konstantinos Drosatos, MSc, PhD, FAHA

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PROFILE

I am the **Ohio Eminent Scholar** (state-sponsored endowment) and **Professor in Pharmacology & Systems Physiology** with tenure and member of the **Cardiovascular Research Center** at **the University of Cincinnati College of Medicine**. My group's research focuses on signaling mechanisms that affect cardiac metabolism during sepsis, diabetes and heart failure with a particular interest in Krüppel-like factors and stress signaling pathways. My group is funded by the National Heart, Lung and Blood Institute of the NIH.

EXPERIENCE

2022 - Today — University of Cincinnati College of Medicine, Department of Pharmacology & Systems Physiology Cincinnati, USA
Professor (tenured) **& Ohio Eminent Scholar**

2023 – Today — **Adjunct Professor**, Department of Life Sciences, School of Sciences, European University of Cyprus

2020 - 2022 — Temple University, Department of Cardiovascular Sciences & Center for Translational Medicine, Philadelphia, USA
Associate Professor (tenured)
Secondary appointments: Center for Metabolic Disease Research, Alzheimer's Center at Temple

2014 - 2020 — Temple University, Dept of Pharmacology & Center for Translational Medicine, Philadelphia, USA
Assistant Professor (tenure-track)

2016 – — Graduate Program in Molecular Basis of Human Disease (University of Crete, School of Medicine, Greece)
External faculty

2012 - 2014 — Columbia University, Department of Medicine, New York, NY USA
Associate Research Scientist

2007 – 2012 — Columbia University, Department of Medicine, New York, NY USA
Post-doctoral Research Scientist in the laboratory of Ira J. Goldberg, MD

EDUCATION

2019-2020 — Temple University
Leadership Academy 14
Premier professional development program offered exclusively to eligible full-time faculty and senior-level administrators recognized as rising leaders with the goal to build and sustain the institution's leadership capacity.

2002-2007 — Boston University (Host institute - Boston MA, USA)
& University of Crete (Degree awarding institute - Heraklion, Greece)
PhD in Molecular Biology & Biomedicine
Topic: "Gene regulation and functions of Apolipoprotein E"

2000-2002 — Boston University (Boston MA, USA) & University of Crete (Heraklion, Greece)
MSc in Molecular Biology & Biomedicine
Topic: "Effects of adenovirus mediated gene transfer of RxRa and Smad7 on the transcription of Apolipoprotein genes in HepG2 cells"

2000 — Aristotle University of Thessaloniki, Greece
BSc in Biology

PUBLICATIONS

Peer reviewed articles *(* denotes equal contribution)*

1. Mylonas N, Nikolaou PE, Siokatas G, Kostopoulos IV, Tsitsilonis O, **Drosatos K***, Andreadou I*. Empagliflozin restores cardiac metabolism and suppresses immune activation in acute myocardial infarction. **Atherosclerosis**. 2025 Jun 12;407:120404. doi: 10.1016/j.atherosclerosis.2025.120404. Epub ahead of print. PMID: 40543297.
2. Mia S, Siokatas G, Sidiropoulou R, Hoffman M, Fragkiadakis K, Markopoulou E, Elesawy MI, Roy R, Blair S, Kuwabara Y, Rapushi E, Chaudhuri D, Makarewich CA, Gao E, Koch WJ, Schilling JD, Molkentin JD, Marketou M, **Drosatos K**. Hepato-cardiac interorgan communication controls cardiac hypertrophy via combined endocrine-autocrine FGF21 signaling. **Cell Reports Medicine**. 2025 May 3:102125. doi: 10.1016/j.xcrm.2025.102125. Epub ahead of print. PMID: 40339570.
3. Mattam U, Talari NK, Sathyanarayana AR, Mia S, Frazier J, Alagarsamy J, Slone S, **Drosatos K**, Krishnan KC. Isolated mouse adult cardiomyocytes display minimal mitochondrial ATP demand and maximal reliance on glycolysis. **J Mol Cell Cardiol**. 2025 Apr 26: S0022-2828(25)00076-8. doi: 10.1016/j.yjmcc.2025.04.012. PMID: 40294786.
4. Mylonas N, Siokatas G, Zacharia E, Pol C, Rolland T, Kyriazis ID, Hoffman M, Hildebrand A, Bannister T, Gao E, Goldberg IJ, Yang VW, Bialkowska AB, Elrod J, Canty JM Jr, Andreadou I, Weil B, **Drosatos K**. Cardiac ischemia/reperfusion increases cardiomyocyte KLF5 in pigs and mice that aggravates tissue injury and remodeling. **Cardiovascular Research**. 2025 Mar 13;. doi: 10.1093/cvr/cvaf040. PMID: 40079359. **[SELECTED FOR THE EDITORIAL OF THE JOURNAL]**
5. Amit Kumar Rai, Natarajaseenivasan Suriya Muthukumaran, Noemi Nisini, Tiffany Lee, **Ioannis D. Kyriazis**, Claudio de Lucia, Michela Piedepalumbo, Rajika Roy, Shizuka Uchida, **Konstantinos Drosatos**, Malik Bisserier, Rajesh Katare, David Goukassian, Raj Kishore, Venkata Naga Srikanth Garikipati. Transcriptome wide changes in long noncoding RNAs in diabetic ischemic heart disease. **Cardiovascular Diabetology**. 2024 Oct 17;23(1):365.
6. G. Siokatas, R. Hamouche, E. Maneta, C. Selzman, K. E. Hatzistergos, S. G. Drakos, **K. Drosatos**. Myocardial Krüppel-Like Factor (KLF)5 Abundance Holds Prognostic Value For Myocardial Recovery Of Heart Failure Patients Following Mechanical Unloading And Circulatory Support. **JAHA-Journal of the American Heart Association**. 2024 Aug 13:e035661.
7. K. Stamatelopoulos, D. Bampatsias, C. Kyriakopoulos, K. Sopova, G. Georgiopoulos, R. Hamouche, T. Shankar, E. Tseliou, M. Bonios, S. Tual-Chalot, I. Kyriazis, C. Selzman, **K. Drosatos**, K. Stellos, S. Drakos. Circulating amyloid-beta 1-40 levels associate with cardiac remodelling and myocardial recovery in advanced heart failure. **European Heart Journal** (2023) 44 (Suppl 2).
8. Palioura D, Mellidis K, Ioannidou-Kabouri K, Galatou E, Mouchtouri ET, Stamatiou R, Mavrommatis-Parasidis P, Panteris E, Varela A, Davos C, **Drosatos K**, Mavroidis M, Lazou A. PPARδ activation improves cardiac mitochondrial homeostasis in desmin deficient mice but does not alleviate systolic dysfunction. **J Mol Cell Cardiol**. 2023 Aug 19; 183:27-41
9. Hoffman M, Palioura D, Kyriazis ID, Cimini M, Badolia R, Rajan S, Gao E, Nikolaidis N, Schulze PC, Goldberg IJ, Kishore R, Yang VW, Bannister TD, Bialkowska AB, Selzman CH, Drakos SG, **Drosatos K**. Cardiomyocyte Krüppel-like Factor 5 Promotes De Novo Ceramide Biosynthesis and Contributes to Eccentric Remodeling in Ischemic Cardiomyopathy. **Circulation**. 2021 Jan 12.
10. Kyriazis ID, Hoffman M, Gaignebet L, Lucchese AM, Markopoulou E, Palioura D, Wang C, Bannister TD, Christofidou-Solomidou M, Oka SI, Sadoshima J, Koch WJ, Goldberg IJ, Yang VW, Bialkowska AB, Kararigas G, **Drosatos K.** KLF5 Is Induced by FOXO1 and Causes Oxidative Stress and Diabetic Cardiomyopathy. **Circulation Research,** 2021 Feb 5;128(3):335-357 [**SELECTED FOR THE EDITORIAL OF THE JOURNAL**].
11. Pfleger J, Coleman RC, Ibetti J, Roy R, Kyriazis ID, Gao E, **Drosatos K**, Koch WJ. Genomic Binding Patterns of Forkhead Box Protein O1 Reveal its Unique Role in Cardiac Hypertrophy. **Circulation**. 2020 Jul 9. PMID: 32640834.
12. Hoffman M, Kyriazis ID, Dimitriou A, Mishra SK, Koch WJ, **Drosatos K**. B-type natriuretic peptide is upregulated by c-Jun N-terminal kinase and contributes to septic hypotension. **JCI Insight**. 2020;5(8): e133675. Published 2020 Apr 23. [**SELECTED FOR THE "JCI: THIS MONTH" COLLECTION**].
13. Lieu M, Traynham CJ, de Lucia C, Pfleger J, Piedepalumbo M, Roy R, Petovic J, Landesberg G, Forrester SJ, Hoffman M, Grisanti LA, Yuan A, Gao E, **Drosatos K**, Eguchi S, Scalia R, Tilley DG, Koch WJ. Loss of dynamic regulation of G protein-coupled receptor kinase 2 by nitric oxide leads to cardiovascular dysfunction with aging. **Am J Physiol Heart Circ Physiol**. 2020 May 1;318(5):H1162-H1175. Epub 2020 Mar 27.
14. Joseph LC, Reyes MV, Lakkadi KR, Gowen BH, Hasko G, **Drosatos K**, Morrow JP. PKCdelta causes sepsis-induced cardiomyopathy by inducing mitochondrial dysfunction. **Am J Physiol Heart Circ Physiol**. 2020 Mar 6. PMID: 32142354.
15. Kalliora C, Kyriazis ID, Oka SI, Lieu MJ, Yue Y, Area-Gomez E, Pol CJ, Tian Y, Mizushima W, Chin A, Scerbo D, Schulze PC, Civelek M, Sadoshima J, Madesh M, Goldberg IJ, **Drosatos K**. Dual peroxisome-proliferator-activated-receptor-α/γ activation inhibits SIRT1-PGC1α axis and causes cardiac dysfunction. **JCI Insight**. 2019 Aug 8;5.
16. Hoffman M, Kyriazis ID, Lucchese AM, de Lucia C, Piedepalumbo M, Bauer M, Schulze PC, Bonios MJ, Koch WJ, **Drosatos K**. Myocardial Strain and Cardiac Output are Preferable Measurements for Cardiac Dysfunction and Can Predict Mortality in Septic Mice. **J Am Heart Assoc**. 2019 May 21;8(10):e012260.
17. Pol CJ, Pollak NM, Jurczak MJ, Zacharia E, Karagiannides I, Kyriazis ID, Ntziachristos P, Scerbo DA, Brown BR, Aifantis I, Shulman GI, Goldberg IJ, **Drosatos K**. Cardiac myocyte KLF5 regulates body weight via alteration of cardiac FGF21. **Biochim Biophys Acta Mol Basis Dis**. 2019 Apr 26.

18. Cao T, Liccardo D, LaCanna R, Zhang X, Lu R, Finck BN, Leigh T, Chen X, Drosatos K, Tian Y. Fatty Acid Oxidation Promotes Cardiomyocyte Proliferation Rate but Does Not Change Cardiomyocyte Number in Infant Mice. **Front Cell Dev Biol**. 2019 Mar 22;7:42.
19. Woodall BP, Gresham KS, Woodall MA, Valenti MC, Cannavo A, Pfleger J, Chuprun JK, **Drosatos K**, Koch WJ. Alteration of myocardial GRK2 produces a global metabolic phenotype. **JCI Insight**. 2019 Apr 4;5
20. Kokkinaki D, Hoffman M, Kalliora C, Kyriazis ID, Maning J, Lucchese AM, Shanmughapriya S, Tomar D, Park JY, Wang H, Yang XF, Madesh M, Lymperopoulos A, Koch WJ, Christofidou-Solomidou M, **Drosatos K**. Chemically synthesized Secoisolariciresinol diglucoside (LGM2605) improves mitochondrial function in cardiac myocytes and alleviates septic cardiomyopathy. **J Mol Cell Cardiol**. 2019 Feb;127:232-245.
21. Sato PY, Chuprun JK, Grisanti LA, Woodall MC, Brown BR, Roy R, Traynham CJ, Ibetti J, Lucchese AM, Yuan A, **Drosatos K**, Tilley DG, Gao E, Koch WJ. Restricting mitochondrial GRK2 post-ischemia confers cardioprotection by reducing myocyte death and maintaining glucose oxidation. **Science Signaling**. 2018 Dec 11;11(560)
22. Son NH, Basu D, Samovski D, Pietka TA, Peche VS, Willecke F, Fang X, Yu SQ, Scerbo D, Chang HR, Sun F, Bagdasarov S, **Drosatos K**, Yeh ST, Mullick AE, Shoghi KI, Gumaste N, Kim K, Huggins LA, Lhakhang T, Abumrad NA, Goldberg IJ. Endothelial cell CD36 optimizes tissue fatty acid uptake. **J Clin Invest**. 2018 Oct 1;128(10):4329-434
23. Stamatelopoulos K, Pol CJ, Ayers C, Georgiopoulos G, Gatsiou A, Brilakis ES, Khera A, **Drosatos K**, de Lemos JA*, Stellos K*. Amyloid-Beta (1-40) Peptide and Subclinical Cardiovascular Disease. **J Am Coll Cardiol.** 2018 Aug 28;72(9):1060-1061
24. Zeng H, Nanayakkara GK, Shao Y, Fu H, Sun Y, Cueto R, Yang WY, Yang Q, Sheng H, Wu N, Wang L, Yang W, Chen H, Shao L, Sun J, Qin X, Park JY, Drosatos K, Choi ET, Zhu Q, Wang H, Yang X. DNA Checkpoint and Repair Factors Are Nuclear Sensors for Intracellular Organelle Stresses-Inflammations and Cancers Can Have HighGenomic Risks. **Front Physiol**. 2018 May 11;9:516
25. Cheng ZJ, Shen X, Jiang X, Shan H, Cimini M, Fang P, Ji Y, Park J. Y., **Drosatos K**, Yang X, Kevil C.G., Kishore R and Wang H, Hyperhomocysteinemia potentiates diabetes-impaired EDHF-induced vascular relaxation: Role of insufficient hydrogen sulfide, **Redox Biol**. 2018 Feb 14;16:215-225
26. Zhang X, Ji R, Liao X, Castillero E, Kennel PJ, Brunjes DL, Franz M, Möbius-Winkler S, **Drosatos K**, George I, Chen EI, Colombo PC, Schulze PC. MicroRNA-195 Regulates Metabolism in Failing Myocardium Via Alterations in Sirtuin 3 Expression and Mitochondrial Protein Acetylation. **Circulation**. 2018 May 8;137(19):2052-2067
27. Joseph LC, Kokkinaki D, Valenti MC, Kim GJ, Barca E, Tomar D, Hoffman NE, Subramanyam P, Colecraft HM, Hirano M, Ratner AJ, Madesh M, **Drosatos K***, Morrow JP*. Inhibition of NADPH oxidase 2 (NOX2) prevents sepsis-induced cardiomyopathy by improving calcium handling and mitochondrial function. **JCI Insight**. 2017 Sep 7;2(17).
28. Ji R, Akashi H, **Drosatos K**, Liao X, Jiang H, Kennel PJ, Brunjes DL, Castillero E, Zhang X, Deng LY, Homma S, George IJ, Takayama H, Naka Y, Goldberg IJ, Schulze PC. Increased de novo ceramide synthesis and accumulation in failing myocardium. **JCI Insight**. 2017 May 4;2(9).
29. **Drosatos K,** Pollak NM, Pol CJ, Ntziachristos P, Willecke F, Valenti MC, Trent CM, Hu Y, Guo S, Aifantis I, Goldberg IJ. Cardiac Myocyte KLF5 Regulates Ppara Expression and Cardiac Function. **Circulation Research**. 2016 Jan 22; 118(2):241-53. *corresponding author; **[SELECTED FOR THE EDITORIAL OF THE JOURNAL]**
30. Sato PY, Chuprun JK, Ibetti J, Cannavo A, **Drosatos K**, Elrod JW, Koch WJ. GRK2 compromises cardiomyocyte mitochondrial function by diminishing fatty acid-mediated oxygen consumption and increasing superoxide levels. **J Mol Cell Cardiol**. 2015 Oct 23.
31. Willecke F, Scerbo D, Nagareddy P, Obunike JC, Barrett TJ, Abdillahi ML, Trent CM, Huggins LA, Fisher EA, **Drosatos K**, Goldberg IJ. Lipolysis, and Not Hepatic Lipogenesis, Is the Primary Modulator of Triglyceride Levels in Streptozotocin-Induced Diabetic Mice. **Arterioscler Thromb Vasc Biol**. 2014 Nov 13
32. Bosma M, Dapito DH, Drosatos-Tampakaki Z, Huiping-Son N, Huang LS, Kersten S, **Drosatos K[#]**, Goldberg IJ*. Sequestration of fatty acids in triglycerides prevents endoplasmic reticulum stress in an in vitro model of cardiomyocyte lipotoxicity. **Biochim Biophys Acta**. 2014 Sep 20. pii: S1388-1981(14)00190-5. **[#]corresponding author**
33. Drosatos-Tampakaki Z, **Drosatos K**, Siegelin Y, Gong S, Khan S, Van Dyke T, Goldberg IJ, Schulze PC, Schulze-Späte U. Palmitic Acid and DGAT1 Deficiency Enhance Osteoclastogenesis while Oleic Acid-Induced Triglyceride Formation Prevents it. **J Bone Miner Res**. 2013 Nov 23
34. Wan E, Yeap XY, Dehn S, Terry RL, Novak ML, Zhang S, Iwata S, Han X, Homma S, **Drosatos K**, Lomasney JW, Engman DM, Miller SD, Vaughan DE, Morrow JP, Kishore R, Thorp EB. Enhanced Efferocytosis of Apoptotic Cardiomyocytes Through MER Tyrosine Kinase Links Acute Inflammation Resolution to Cardiac Repair After Infarction. **Circulation Research**. 2013 Jul 8
35. **Drosatos K[#],** Khan RS, Trent CM, Jiang H, Son NH, Homma S, Blaner WS, Schulze PC, Goldberg IJ. Activation of PPARγ prevents sepsis-mediated cardiac dysfunction in mice. **Circulation: Heart Failure**. 2013 May 1; 6(3): 550-62 **[#]corresponding author**

36. Garcia-Arcos I, Hiyama Y, **Drosatos K**, Bharadwaj KG, Hu Y, Son NH, O'Byrne SM, Chang CL, Deckelbaum RJ, Takahashi M, Westerterp M, Obunike JC, Jiang H, Yagyu H, Blaner WS, Goldberg IJ. Adipocyte specific lipoprotein lipase deficiency more profoundly affects brown than white fat biology. **Journal of Biological Chemistry**, 2013 May 17; 288 (20): 14046-58
37. Khan RS, Chokshi A, **Drosatos K**, Jiang H, Yu S, Harris CR, Schulze PC, Blaner WS, Shulman G, Huang LS, Goldberg IJ. Fish oil selectively improves heart function in a mouse model of lipid-induced cardiomyopathy. **Journal of Cardiovascular Pharmacology**. 2013 Apr; 61(4): 345-54
38. Georgiadou D, Chroni A, **Drosatos K**, Kypreos KE, Zannis VI, Stratikos E.Allele-dependent thermodynamic and structural perturbations in ApoE variants associated with the correction of dyslipidemia and formation of spherical ApoE-containing HDL particles. 2013 Feb;226(2):385-91. **Atherosclerosis**.2012.11.013. Epub 2012 Nov 23.
39. Chokshi A, **Drosatos K**, Cheema FH, Ji R, Khawaja T, Yu S, Kato T, Khan R, Takayama H, Knöll R, Milting H, Chung CS, Jorde U, Naka Y, Mancini DM, Goldberg IJ, Schulze PC. Ventricular assist device implantation corrects myocardial lipotoxicity, reverses insulin resistance, and normalizes cardiac metabolism in patients with advanced heart failure. **Circulation**. 2012 Jun 12;125(23):2844-53; **[SELECTED FOR THE EDITORIAL OF THE JOURNAL].**
40. **Drosatos K.**, Drosatos-Tampakaki Z., Khan R., Homma S, Schulze PC, Zannis VI, Goldberg IJ. Inhibition of c-Jun-N-terminal Kinase Increases Cardiac Peroxisome Proliferator-activated Receptor {alpha} Expression and Fatty Acid Oxidation and Prevents Lipopolysaccharide-induced Heart Dysfunction, **Journal of Biological Chemistry** 2011 Oct 21;286(42):36331-9
41. Vedantham S, Noh HL, Ananthakrishnan R, Son N, Hallam K, Hu Y, Yu S, Shen X, Rosario R, Lu Y, Ravindranath T, **Drosatos K**, Huggins LA, Schmidt AM, Goldberg IJ, Ramasamy R. Human aldose reductase expression accelerates atherosclerosis in diabetic ApoE-/- mice, **Atheroscelrosis Thrombosis & Vascular Biology** 2011 Aug;31(8):1805-13
42. **Drosatos K**, Bharadwaj KG, Lymperopoulos A, Ikeda S, Khan R, Hu Y, Agarwal R, Yu S, Jiang H, Steinberg SF, Blaner WS, Koch WJ, Goldberg IJ. Cardiomyocyte lipids impair β-adrenergic receptor function via PKC activation. **Am J Physiol Endocrinol Metab**. 2011 Mar;300(3):E489-99; [**SELECTED FOR THE *EDITOR'S CHOICES* SECTION**]
43. Vezeridis AM, **Drosatos K**, Zannis VI. Molecular etiology of a dominant form of type III hyperlipoproteinemia caused by R142C substitution in ApoE4. **J Lipid Res**. 2011 Jan;52(1):45-56
44. Iliopoulos D*, **Drosatos K*,** Zannis VI. MicroRNAs 122 and 370 control genes of lipid metabolism and hepatic lipid accumulation. **J Lipid Res**. 2010 Jun;51(6):1513-23 ***equal contribution**; [**SELECTED FOR THE COVER OF THE JOURNAL]**
45. Sanoudou D, Duka A*, **Drosatos K***, Hayes KC, Zannis VI. *Role of Esrrg* in the fibrate mediated regulation of genes of lipid metabolism in human apoA-I transgenic mice. **Pharmacogenomics J.** 2010 Jun;10(3):165-79. ***** **equal contribution**
46. Park TS, Hu Y, Noh HL, **Drosatos K**, Okajima K, Buchanan J, Tuinei J, Homma S, Jiang XC, Abel ED, Goldberg IJ. Ceramide is a cardiotoxin in lipotoxic cardiomyopathy. **J Lipid Res**. 2008 Oct;49(10):2101-12; **[SELECTED FOR THE COVER OF THE JOURNAL].**
47. **Drosatos K**, Kypreos KE, Zannis VI. Residues Leu261, Trp264, and Phe265 account for Apolipoprotein E-induced dyslipidemia and affect the formation of Apolipoprotein E-containing high-density lipoprotein. **Biochemistry**. 2007 Aug 21;46(33):9645-53
48. **Drosatos K**, Sanoudou D, Kypreos KE, Kardassis D, Zannis VI. A dominant negative form of the transcription factor c-Jun affects genes that have opposing effects on lipid homeostasis in mice. **J Biol Chem**. 2007 Jul 6;282(27):19556-64

Review articles

1. Luca Liberale*, Simon Tual-Chalot*, Simon Sedej, Stefano Ministrini, Georgios Georgiopoulos, Myriam Grunewald, Magnus Bäck, Marie-Luce Bochaton-Piallat, Reinier A. Boon, Gustavo Campos Ramos, Menno P.J. de Winther, **Konstantinos Drosatos**, Paul C. Evans, Jane F. Ferguson, Sofia K. Forslund, Claudia Goettsch, Mauro Giacca, Judith Haendeler, Marinos Kallikourdis, Daniel F.J. Ketelhuth, Rory R. Koenen, Patrick Lacolley, Esther Lutgens, Pasquale Maffia, Satomi Miwa, Claudia Monaco, Fabrizio Montecucco, Giuseppe Danilo Norata, Elena Osto, Gavin D. Richardson, Niels P. Riksen, Oliver Soehnlein, Ioakim Spyridopoulos, Sophie Van Linthout, Gemma Vilahur, Jolanda J. Wentzel, Vicente Andrés, Lina Badimon, Athanase Benetos, Christoph J. Binder, Ralf P. Brandes, Filippo Crea, David Furman, Vera Gorbunova, Tomasz J Guzik, Joseph A. Hill, Thomas F. Luescher, María Mittelbrunn, Alessio Nencioni, Mihai G. Netea, João F. Passos, Kimon Stamatelopoulos, Nektarios Tavernarakis, Zoltan Ungvari, Joseph C. Wu, James L. Kirkland, Giovanni G. Camici, Stefanie Dimmeler, Guido Kroemer, Mahmoud Abdellatif, Konstantinos Stellos. Roadmap for Alleviating Manifestations of Ageing in the Circulatory System. **Nature Reviews Cardiology.** 2025 Feb 19. doi: 10.1038/s41569-025-01130-5. PMID: 39972009.
2. Gerontas A, Avgerinos D, Charitakis K, Maragou H, **Drosatos K**. 1821-2021: Contributions of physicians and researchers of Greek descent in the advancement of clinical and experimental cardiology and cardiac surgery. **Frontiers in Cardiovascular Medicine**. 2023 Aug 4;10:1231762.
3. Vakka A, Warren JS, **Drosatos K**. Cardiovascular aging: from cellular and molecular changes to therapeutic interventions. **J Cardiovasc Aging**. 2023;3(3):23
4. Mylonas N, **Drosatos K**, Mia S. The role of glucose in cardiac physiology and pathophysiology. **Curr Opin Clin Nutr Metab Care**. 2023 Jul 1;26(4):323-329

5. Veera Ganesh Yerra and **Konstantinos Drosatos**. Specificity Proteins (SP) and Krüppel-like Factors (KLF) in Liver Physiology and Pathology. Int J Mol Sci. 2023 Feb 28;24(5):4682
6. Dimitra Palioura, Antigone Lazou, **Konstantinos Drosatos**. Krüppel-like factor (KLF)5: An emerging foe of cardiovascular health. **J Mol Cell Cardiol**. 2021
7. Thomas S, **Drosatos K**. Metabolic Complications in Cardiac Aging. **Frontiers in Physiology**. Front Physiol. 2021 Apr 29;12: 669497.
8. Kalliora C, **Drosatos K**. The Glitazars Paradox: Cardiotoxicity of the Metabolically Beneficial Dual PPARα and PPARγ Activation. **J Cardiovasc Pharmacol**. 2020 Nov;76(5):514-526.
9. Kalea AZ, Drosatos K, Buxton JL. Nutriepigenetics and cardiovascular disease. Curr Opin Clin Nutr Metab Care. 2018 Jul;21(4):252-259
10. Nina M. Pollak*, Matthew Hoffman*, Ira J. Goldberg, **Konstantinos Drosatos**. Krüppel-like factors: Crippling and un-crippling metabolic pathways. **JACC Basic Transl Sci.** 2018 Feb;3(1):132-156
11. **Drosatos K**. Fatty old hearts: role of cardiac lipotoxicity in age-related cardiomyopathy. **Pathobiol Aging Age Relat Dis**. 2016 Aug 23;6: 32221
12. P. Christian Schulze, **Konstantinos Drosatos**, Ira J. Goldberg. Lipid use and misuse by the heart. **Circ Res**. 2016 May 27;118(11):1736-51
13. Christine Pol, Melissa Lieu, **Konstantinos Drosatos*.** PPARs: Protectors or opponents of myocardial function? **PPAR Research** 2015; 2015:835985 ***corresponding author**
14. **Drosatos K***, Lymperopoulos A, Kennel PJ, Pollak N, Schulze PC, Goldberg IJ. Pathophysiology of Sepsis-Related Cardiac Dysfunction: Driven by Inflammation, Energy Mismanagement, or Both? **Curr Heart Fail Rep**. 2014 Dec 5 ***corresponding author**
15. **Drosatos K*,** Schulze PC*. Cardiac Lipotoxicity: Molecular Pathways and Therapeutic Implications. **Curr Heart Fail Rep**. 2013 Mar 19. [Epub ahead of print] ***corresponding author**
16. Khan RS, **Drosatos K**, Goldberg IJ Creating and curing fatty hearts. **Curr Opin Clin Nutr Metab Care**. 2010 Mar;13(2):145
17. Zannis VI, Koukos G, **Drosatos K**, Vezeridis A, Zanni EE, Kypreos KE, Chroni A. Discrete roles of apoA-I and apoE in the biogenesis of HDL species: lessons learned from gene transfer studies in different mouse models. **Ann Med**. 2008 Feb;40 Suppl 1:14-28. Review

Editorials and Opinion articles

1. **Drosatos K**. Cardiometabolic diseases: In search of optimal mouse models. JACC Basic Transl Sci. 2023 Apr 24;8(4):436-438
2. **Drosatos K**., Fousteri G. Generation LWBS: introducing life–work balance in science. Nat Cardiovasc Res (2022).
3. **Drosatos K**, Ktistakis N. Greek scientists desperate for a national research foundation. Nature. 2022 Jul;607(7920):657
4. **Drosatos K**, Schulze PC. Savings precede spending: Fatty Acid utilization relies on triglyceride formation for cardiac energetics. **Circulation**. 2014 Nov 11;130(20):1775-7

Book chapters

1. **Konstantinos Drosatos** & Ira J. Goldberg (2014) Lipoproteins: A Source of Cardiac Lipids: Cardiac Energy Metabolism in Health and Disease, Advances in Biochemistry in Health and Disease Volume 11, 2014, pp 15-33 Springer (ed. G. D. Lopaschuk & N.S. Dhall); ISBN: 978-1-4939-1226-1 (Print) 978-1-4939-1227-8 (Online)
2. Kardassis, D., **Drosatos, C**. and Zannis, V. I. (2008) Regulation of Genes Involved in the Biogenesis and the Remodeling of HDL, in High-Density Lipoproteins: From Basic Biology to Clinical Aspects (ed C. J. Fielding), Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany
3. Zannis, V.I., A. Duka, **K. Drosatos**, D. Sanoudou, G. Koukos, E. Zanni, D. Kardassis. 2010. Regulation of apoA-I gene expression and prospects to increase plasma apoA-I and HDL levels. In: High Density Lipoproteins, Dyslipidemia, and Coronary Heart Disease. (E.J. Schaefer, ed.) Springer Science + Business Media, LLC, New York, NY

RESEARCH SUPPORT

Current

4/2025-3/2029
HL175251 **PI:** Drosatos K **Program Type:** R01
Project Title: Role of GLUT1 in diabetic cardiomyopathy
Funding Source: National Heart, Lung & Blood Institute, NIH
Summary: This project investigates the role of GLUT1 in activating KLF5 expression and driving diabetic cardiomyopathy.

07/2024 – 06/2027
24CDA1275780 **PI: Mia S; Sponsor: Drosatos K** **Program Type**: Career Development Award
Project Title: The role of KLF5-GLUT1 axis in diabetic cardiac and skeletal myopathy
Funding Source: American Heart Association
Summary: This project investigates the role of GLUT1 in diabetic cardiomyopathy and skeletal muscle dysfunction in diabetes.

01/2025-01/2027
25PRE1378136 **PI**: Siokatas G; **Sponsor**: Drosatos K **Program Type**: Predoctoral fellowship
Project Title: Role of KLF5 in peroxisomal dysfunction and cardiac aging
Funding Source: American Heart Association

Pending

12/2025-11/2030 **Scored in the 12% – Pending Advisory Council decision**
HL182820 **PI: Drosatos K** **Program Type:** R01
Project Title: KLF5 and GLUT1/4 in Cardiac I/R injury in Mice and Pigs
Summary: This project investigates how inhibition of KLF5 and combined inhibition of GLUT1 and GLUT4 alleviate cardiac ischemia-reperfusion injury

4/2026-3/2031 **In review**
AG094709 **PI: Drosatos K** **Program Type:** R01
Project Title: Dysregulation of RNA editing and peroxisomes in aged hearts
Summary: This project investigates interventions aiming to alleviate aging-related cardiomyopathy

Working on submission
HL172441 **PI:** Drosatos K **Program Type:** R01
Project Title: Role of hepatocardiac FGF21 signaling in cardiac hypertrophy
Funding Source: National Heart, Lung & Blood Institute, NIH
Summary: This project investigates the role of hepatocyte and cardiomyocyte FGF21 in cardiac hypertrophy.

Past

07/2024 – 06/2025 **PI: Drosatos K** **Program Type**: Research Innovation Pilot Grant
Project Title: Role of KLF5 and peroxisomes dysfunction in cardiac aging
Funding Source: University of Cincinnati College of Medicine

04/2020 – 03/2025 (NCE)
HL151924 **PI: Drosatos K** **Program Type**: R01
Project Title: Role of cardiomyocyte KLF5 in heart failure
Funding Source: National Heart, Lung & Blood Institute, NIH
Summary: This project investigates the role of cardiomyocyte KLF5 in ceramide metabolism and ischemic heart failure.

9/2020-8/2023
GM135399 **Multi-PI:** Drosatos K & Gentile N
Program Type: R01
Project Title: Role of JNK and BNP in Septic Hypotension
Funding Source: National Institute for General Medical Sciences, NIH
Summary: This project investigates regulation of hypotension in sepsis by the JNK signaling pathway and B-type Natriuretic Peptide (BNP).

07/2016 – 04/2022 (NCE)
HL130218 **PI: Drosatos K** **Program Type**: R01
Project Title: Role of KLF5 in cardiac and systemic fatty acid metabolism
Funding Source: National Heart, Lung & Blood Institute, NIH
Summary: This project investigates the role of cardiomyocyte KLF5 in diabetic cardiomyopathy and regulation of cardiac and systemic fatty acid metabolism.
NOTE: Application for renewal will be submitted in March 2021.

09/2019 - 09/2021
F30 Predoctoral Fellowship **PI:** Matthew Hoffman**; Sponsor:** Drosatos K**; Co-Sponsor:** Gentile N
Funding Source: National Heart, Lung, and Blood Institute
Grant Number: 1F30HL146007
Project Title: Investigating the Role of JNK Activation and Circulating BNP in Septic Hypotension
Summary: This project investigates the causative association between cardiac JNK activation, B-type natriuretic peptide secretion, and hypotension in sepsis.

7/2019-5/2021
PA Cure **Project 4** (PI: Koch WJ, co-I: Drosatos K)
Project Title: Understanding How the Heart and Secreted Factors Can Regulate Fat Cells and Obesity
Summary: The goal of this project is to understand the paracrine functions of the heart to regulate systemic metabolism and determine how cardiac injury and stress can change these functions and the factors secreted.

07-2018 – 06-2020
Postdoctoral Fellowship **PI:** Ioannis Kyriazis**; Sponsor:** Drosatos K
Direct costs: $114,368
Funding Source: American Heart Association
Grant number: 18POST34060150
Period of the award: 07/2018 – 06/2020**,**
Project Title: Role of KLF5 and mitochondrial calcium in cardiac aging
Summary: This project investigates the effect of KLF5 in mitochondrial calcium uniporter expression and calcium handling in aged hearts.

07-2018 – 08-2019
Predoctoral Fellowship **PI:** Matthew Hoffman**; Sponsor:** Drosatos K
Direct costs: $ 53,688
Funding Source: American Heart Association
Grant number: 18PRE34060115
Project Title: KLF5-miR30e Axis in the Regulation of Cardiac Metabolism in Myocardial Ischemia
Summary: This project investigates the effect of KLF5 in the expression of miR30, which is suppressed in myocardial ischemia and has been associated with poor prognosis.

04/2017 – 03/2019
"Stavros Niarchos Foundation" Research Training Program in Clinical & Experimental Medicine **Role:** Director
Funding Source: Stavros Niarchos Foundation ($375,000)
Project objective: 12 months Research & 3 months clinical training of MD graduates from Greece in the USA

01/2018 – 12/2018
H1705 **PI: Drosatos K** **Program Type:** Scientific Research Project
Project Title: Cardiotoxic Effects of Dual PPARα/γ Activation
Funding Source: W.W. Smith Charitable Trust
Summary: This project investigates the mechanism that accounts for cardiac dysfunction caused by combined systemic activation of PPARα and PPARγ.

07/2012 – 06/2017
HL112853 **PI: Drosatos K** **Program Type**: K99/R00, NIH Pathway to Independence Award
Project Title: Mechanisms of Reduced Fatty Acid Oxidation and Cardiac Dysfunction in Sepsis
Funding Source: National Heart, Lung & Blood Institute, NIH

Summary: This project investigates the role of JNK signaling pathway in the inhibition of cardiac PPARα gene expression during sepsis. Moreover, it investigates the mechanism via which PPARγ induces fatty acid oxidation more potently when PPARα is inhibited.

07/2010-07/2012 **PI: Drosatos K** **Program Type:** Postdoctoral Fellowship
Project Title: Cardiac diacylglycerol and ceramide impair beta-adrenergic receptor function via activation of PKC.
Funding Source: American Heart Association, Founders Affiliate
Summary: This project investigated the role of activation of PKCα and PKCδ by ceramide and diacyl-glycerol in the inhibition of β-adrenergic receptor signaling that occurs in lipotoxic hearts of mice with cardiomyocyte-specific expression of lipoprotein lipase, PPARγ and acyl-CoA synthase.

DISTINCTIONS & AWARDS

Feb 2024 **Elected Fellow** of the Graduate College of the University of Cincinnati

Oct 2023 **Keynote Speaker,** Vascular and Heart Research Symposium, The Fralin Biomedical Research Institute, Virginia Tech at Roanoke

Sep 2023 **Adjunct Professorship,** European University of Cyprus

June 2023 **Honorary Membership** at the Biology Society of Cyprus

Apr 2023 **Keynote Speaker** at the Trinity Translational Medicine Institute, Trinity College Dublin, Ireland

Dec 2022 **Visiting Professorship** at the School of Medicine, Aristotle University of Thessaloniki, Greece

2022 **Top-Reviewer 2022** for JACC: Basic to Translational Science

Dec 2019 **Elected Full Member of the Sigma Xi Scientific Research Honor Society**

Sep 2017 **Early Research Investigator Award** at Lewis Katz School of Medicine at Temple University, Philadelphia, USA

Jul 2017 **Elected Fellow of the American Heart Association,** Basic Cardiovascular Sciences Council

May 2016 **Honorary Citizen** of Eastern Mani, Lakonia, Greece

Feb 2016 **Visiting Professorship** at the Center for Systems Biomedicine, David Geffen School of Medicine at UCLA

Aug 2015 **UCLA Division of Molecular Medicine - Distinguished Cardiovascular Lectureship** – "Cardiomyocyte KLF5: a novel regulator of cardiac and systemic metabolism"

Nov 2014 Selection of abstract for presentation in the **"Best of AHA Specialty Conferences: BCVS 2014"** session (Title: Klf5 Regulates Cardiac Pparα and Med13 and affects Cardiac Fatty Acid Metabolism And Obesity) – American Heart Association Scientific Sessions 2014, Chicago, IL, USA

Jul 2014 **Outstanding Early Career Award Recipient**, American Heart Association, Basic Cardiovascular Sciences 2014 Scientific Sessions – Pathways to Cardiovascular Therapeutics, Las Vegas, NV, USA

Feb 2013 Selection of poster abstract for oral presentation (Best poster abstracts selected for oral presentation) in the Keystone Symposia meeting on "Mitochondria, Metabolism and Myocardial Function – Basic Advances to Translational Studies", Keystone, CO, USA

Jul 2008 **New Investigator Travel Award** – American Heart Association, Basic Cardiovascular Sciences Conference 2008 – Heart Failure: Molecular Mechanisms and Therapeutic Targets, Keystone CO, USA

"Induction Of Lipotoxicity In A Cardiomyocyte-derived Cell Line Reduces Cell Responsiveness To β-adrenergic Stimulation"

Distinctions of lab members

Nov 2025 Georgios Siokatas – **Travel Award** – 2025 Scientific Sessions, American Heart Association

Jun 2025 Georgios Siokatas – **Best Presentation Award** – Retreat, Department of Pharmacology and Systems Physiology, University of Cincinnati College of Medicine

Jan 2025 Georgios Siokatas Recipient of the American Heart Association **Predoctoral Fellowship** (2 years)

Sep 2024 Georgios Siokatas **– Best Poster Presentations Award (2 posters ranked 1st and 2nd) –** Heart Institute Annual Retreat - Cincinnati Children's Hospital Medical Center

Aug 2024 Sobuj Mia – Recipient of the American Heart Association **Career Development Award** (3 years)

Aug 2024 Sobuj Mia – **Winner of the Young Investigator Competition Award (YICA)** – North American Section-International Society for Heart Research, The XLIII North American Society Annual Meeting, Long Beach, CA

Oct 2023 Sobuj Mia – **Best Presentation Award** – Retreat, Department of Pharmacology and Systems Physiology, University of Cincinnati College of Medicine

Jun 2023 Sobuj Mia **– 1st Place – Outstanding Achievement Award –** Research Day, Department of Pharmacology and Systems Physiology, University of Cincinnati College of Medicine

Feb 2023 Sobuj Mia – Early Cardiovascular Researchers (**ECVR) Data Blitz 2023: Community Engagement; Best oral presentation award,** University of Cincinnati and Cincinnati Children's Hospital Medical Center

Nov 2020 Ioannis D. Kyriazis, Matthew Hoffman, Lea Gaignebet, Anna Maria Lucchese, Chao Wang, Thomas D. Bannister, Melpo Christofidou-Solomidou, Shin-ichi Oka, Junichi Sadoshima, Walter J. Koch, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, Konstantinos Drosatos. Cardiomyocyte-KLF5 Expression is Increased by FOXO1 and Accounts for Cardiomyopathy in Type-1 Diabetes –**AHA Scientific Sessions 2020; Finalist for the "Melvin L. Marcus Early Career Investigator Award in Cardiovascular Sciences"**

Apr 2020 Hoffman, M., Kyriazis, I.D., Lyons, W., Rajan, S., Gao, E., Khan, M., Bannister, T.D., Yang, V.W., Bialkowska, A.B., Selzman, C.H., Drakos, S., **Drosatos, K**. Cardiomyocyte Krüppel-like Factor 5 Regulates Ceramide Biosynthesis and miR-30 Suppression in Ischemic Cardiomyopathy and Promotes Systolic Dysfunction. Experimental Biology; San Diego, CA, USA - **Won an ASBMB travel award**

Jan 2020 Hoffman, M., Kyriazis, I.D., Dimitriou, A., Mishra, S.K., Koch, W.J., **Drosatos, K**. Inhibition of cJun-N-Terminal-Kinase in Polymicrobial Sepsis Alleviates Systolic Dysfunction and Reverses Hypotension via Suppression of B-Type Natriuretic Peptide. U-CARS, Salt Lake City, UT – **Best abstracts oral presentation**

Jul 2019 Ioannis D. Kyriazis, Matthew Hoffman, Charikleia Kalliora, Lea Gaignebet, Thomas D. Bannister, Melpo Christofidou-Solomidou, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, Konstantinos Drosatos. Cardiomyocyte-KLF5 Expression is Increased by FOXO1 and Accounts for Cardiomyopathy in Type-1 Diabetes. American Heart Association Basic Cardiovascular Science 2019 Scientific Sessions; Boston, USA – **Won the Top-5 abstracts award + Won a travel award**

Jun 2019 Hoffman, M., Kyriazis, I.D., Lyons, W., Rajan, S., Gao, E., Khan, M., Selzman, C.H., Drakos, S., Drosatos, K. Krüppel-like factor 5 Promotes Cardiac Dysfunction in Ischemic Cardiomyopathy via De Novo Ceramide Synthesis and miR-30 Suppression. 18th Annual Dawn Marks Day; Temple University, Philadelphia, USA – **1st Oral Presentation Award**

Apr 2019 Ioannis D. Kyriazis, Matthew Hoffman, Charikleia Kalliora, Lea Gaignebet, Thomas D. Bannister, Melpo Christofidou-Solomidou, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, Konstantinos Drosatos. Cardiac KLF5 is upregulated by FOXO1 and accounts for cardiomyopathy in type 1 diabetes. Experimental Biology; Orlando, FL, USA - **Won an ASBMB travel award**

Jan 2019 Hoffman, M., Walker, L., Kyriazis, I., Pol, C., Brown, B., Kurian, J., Khan, M., Stellos, K., Stavros, D., Drosatos, K. Krüppel-like factor 5 Regulates the miR-30 Family in Ischemic Cardiomyopathy – Utah Cardiac Recovery Symposium, Salt Lake City – **Abstract selected for Best Abstracts Oral Presentation Session**

Oct 2017 Charikleia Kalliora, Shin-ichi Oka, Melissa J. Lieu, Yujia Yue, Christine Pol, Mesele-Christina Valenti, Ying Tian, Diego Scerbo, P. Christian Schulze, Mete Civelek, Brian N. Finck, Muniswamy Madesh, Ira J. Goldberg, Konstantinos Drosatos**.** PGC1α Activation Corrects Cardiac Dysfunction Caused By Anti-Diabetic Dual-PPARα/γ Therapy. Mid-Atlantic Pharmacology Society, ASPET Regional Chapter, 2017 annual meeting - **Invited Trainee Oral Presentation Award**

Jun 2017 Charikleia Kalliora, Melissa J. Lieu, Yujia Yue, Christine Pol, Mesele-Christina Valenti, Ying Tian, Diego Scerbo, P. Christian Schulze, Muniswamy Madesh, Mete Civelek, Brian N. Finck, Ira J. Goldberg, Konstantinos Drosatos. PGC1α activation blunts cardiac dysfunction caused by anti-diabetic dual-PPARα/γ agonists: Correction of a failed therapy. Dawn Marks Day, Lewis Katz School of Medicine at Temple University, Philadelphia, PA, USA – **Won the poster award**

Apr 2017 Christine J Pol*, Nina M Pollak*, Michael J Jurczak, Iordanes Karagiannides, Panagiotis Ntziachristos, Diego A Scerbo, Iannis Aifantis, Gerald I Shulman, Ira J Goldberg, Konstantinos Drosatos. Cardiac Myocyte KLF5 Regulates Adiposity via Alteration of Cardiac FGF21. Experimental Biology; Chicago, IL, USA – **Won a travel award**

Sep 2016 Lyons, Walker**,** Hoffman, M., Valenti, M.C., Brown, B., and Drosatos, K**.** Mir-30 regulates cardiomyocyte Peroxisome Proliferator Activating Receptor Co-activator (Pgc)-1. Lewis Katz School of Medicine and Fox Chase Cancer Center, Fourth Annual Temple, Translational Science Symposium – **Won the poster award**

Oct 2015 Christine J Pol, Mesele-Christina Valenti, Sarah M Schumacher, Ancai Yuan, Erhe Gao, Ira J Goldberg, Walter J Koch, **Konstantinos Drosatos**. Klf5 and Ppara Expression is Increased at the Early Stage and Reduced at the Late Stage of Myocardial Ischemia/Reperfusion in Mice; Mid-Atlantic Pharmacology Society, ASPET Regional Chapter, 2015 annual meeting – **Won the 2nd best poster award**

INVITED UNIVERSITY AND RESEARCH INSTITUTE SEMINARS

Grand Rounds

Jan 2023 ***University of Louisville – Environmental Medicine Grand Rounds:*** Cardiomyopathy in diabetes: Driven by unused glucose and KLF5

Sep 2019 ***University of Texas Health Science Center at Houston McGovern Medical School and Baylor College of Medicine* – Cardiology Grand Rounds:** Cardiomyocyte Krüppel-like factor 5: An underestimated "enemy" of cardiac function

Feb 2014 ***Columbia University, Department of Medicine Grand Rounds -*** PPARγ activation treats sepsis-mediated cardiac dysfunction: Can a discarded drug treat a lethal disease?

Invited seminars (Institutes in the US)

Jan 2026 ***Medical University of South Carolina, Department of Regenerative Medicine and Cell Biology -*** FGF21 signaling activation: Treating obesity at the expense of cardiac hypertrophy?

Dec 2025 ***Cedars Sinai Medical Center -*** From KLF5 to GLUT1 and back to KLF5: Chasing pathways of cardiotoxicity in diabetes

Oct 2025 ***Washington University at St. Louis -*** KLF5 biology: A novel dimension of cardiometabolic toxicity

Sep 2025 ***Masonic Medical Research Institute -*** KLF5 biology: A novel dimension of cardiometabolic toxicity

Mar 2024 ***Ohio State University, Department of Physiology -*** KLF5 biology: A novel dimension of cardiometabolic toxicity

Mar 2024 ***University of Bridgeport, Department of Biology -*** Liver-Heart communication during cardiac hypertrophy

Oct 2023 ***The Fralin Biomedical Research Institute, Virginia Tech at Roanoke -*** Hepato-cardiac FGF21 signaling: Treating obesity but promoting cardiac hypertrophy? (Keynote Speaker)

Sep 2023 ***University of Alabama at Birmingham, Nutrition Obesity Research Center {NORC) Seminar Series –*** Hepato-cardiac FGF21 signaling: Treating obesity but promoting cardiac hypertrophy?

Sep 2023 ***University of Kentucky, Cardiovascular Seminar Series -*** Krüppel-like Factor 5: Driving various types of cardiac dysfunction.

Apr 2023 ***University of Cincinnati, Department of Molecular and Cellular Biosciences Seminar Series*** - Managing Cardiac Metabolic Pathways to Treat Cardiomyopathy

Feb 2023 ***New York Medical College -*** Cardiomyopathy in diabetes: Driven by unused glucose and KLF5

Jan 2023 ***Cincinnati Children's Hospital Medical Center, Division of Critical Care -*** Focus on metabolism and secreted cardiac proteins to maintain cardiovascular health in sepsis

Sep 2022 ***Duke University, Molecular Physiology Institute, Sarah W. Stedman Nutrition & Metabolism Center -*** Kruppel-like factor 5 (KLF5): A central transcriptional factor of cardiac toxicity

Mar 2022 ***Emory University School of Medicine, Cardiovascular Biology Seminar -*** "KLF5 orchestrates cardiac oxidative stress and lipotoxicity"

May 2021 ***Columbia University, Department of Physiology -*** Managing cardiac metabolism to treat cardiomyopathy.

Apr 2021 ***Louisiana State University Health Sciences Center, Department of Pathology and Translational Pathobiology Seminar Series -*** Kruppel-like factor 5: An underappreciated foe of cardiac function

Apr 2021 ***University of Maryland, Department of Biochemistry and Molecular Biology -*** Managing cardiac metabolism to treat cardiomyopathy.

Mar 2021 ***Penn State College of Medicine, Department of the Cellular and Molecular Physiology, Hershey -*** Krüppel-like factor 5 (KLF5): Crippling cardiomyocyte metabolic balance

Mar 2021 ***NIAID-NIH, Division Seminar, Laboratory of Clinical Immunology and Microbiology -*** Activation of cardiac metabolism: Novel pathways in treating septic cardiovascular complications.

Mar 2021 ***Medical University of South Carolina, Department of Regenerative Medicine and Cell Biology Seminar Series -*** KLF5: An underappreciated regulator of cardiomyocyte metabolism in cardiac pathology

Mar 2021 ***University of Maryland, School of Medicine, T32 Interdisciplinary Program in Muscle Biology virtual seminar series -*** Chasing KLF5 biology to understand cardiac lipid metabolism and pathology.

Mar 2021 ***University of Cincinnati, Department of Pharmacology and Systems Physiology -*** Managing cardiac metabolism to treat cardiomyopathy.

Feb 2021 ***Nora Eccles Harrison Cardiovascular Research and Training Institute, University of Utah -*** Krüppel-like Factor 5: An underappreciated foe of cardiomyocyte metabolism and function

Feb 2021 ***University of Texas at Houston, McGovern Medical School, Department of Internal Medicine, Cardiology -*** Managing cardiac metabolism to treat various types of cardiomyopathy.

Jan 2021 ***University of Pittsburgh, Vascular Medicine Institute/Heart & Vascular Institute Research Conference –*** Managing Cardiac Metabolism to Treat Various Types of Cardiomyopathy

Jan 2021 ***Cardiometabolism Virtual Seminar Series -*** Navigating cardiac metabolism with KLF5 to treat diabetic cardiomyopathy.

Mar 2018 ***Ohio State University Medical Center -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

Mar 2018 ***Boston University, Whitaker Cardiovascular Institute -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

Oct 2017 ***University of Bridgeport***, Department of Biology, Bridgeport CT: **"**Myocardial metabolism: A platform for interventions that alleviate cardiac dysfunction in various diseases"

Sep 2017 ***Boston University Medical School -*** Cardiomyocyte KLF5: From septic and diabetic cardiac dysfunction to regulation of systemic metabolism

Oct 2016 ***University of Pennsylvania, Division of Gastroenterology Seminar Series -*** Kruppel-like factor 5: How a cardiomyocyte protein regulates systemic metabolism

Apr 2016 ***Virginia Commonwealth University, Department of Physiology & Biophysics Seminar Series -*** Cardiac myocyte KLF5: How sepsis indicated a novel regulator of cardiac fatty acid oxidation

Apr 2016 ***University of Virginia Cardiovascular Research Center Seminar Series*** - Cardiac myocyte KLF5: How sepsis indicated a novel regulator of cardiac fatty acid oxidation

Nov 2015 ***New York Academy of Sciences –*** Grantsmanship for post-docs (panel discussion)

Aug 2015 ***UCLA Division of Molecular Medicine - Distinguished Cardiovascular Lectureship*** – "Cardiomyocyte KLF5: a novel regulator of cardiac and systemic metabolism"

Dec 2013 ***Nova Southeastern University, College of Pharmacy –*** "Septic cardiac dysfunction: Fighting an Inflammatory Disease with anti-inflammatory treatments"

Nov 2013 ***University of Rochester Medical Center – "****Cardiac fatty acid metabolism: From treatment of septic cardiac dysfunction to identification of novel regulators"*

Nov 2013 ***Rutgers University-New Jersey Medical School - "****Cardiac fatty acid metabolism: From treatment of septic cardiac dysfunction to identification of novel regulators"*

May 2013 ***Tufts University – "****PPARγ (gamma): A molecular switch that can turn septic cardiac dysfunction off. How a discarded drug may treat a lethal disease".*

Mar 2013 ***University of Illinois at Chicago– "****PPARγ activation treats sepsis-mediated cardiac dysfunction: Can a discarded drug treat a lethal disease?"*

Feb 2013 ***Temple University, Center for Translational Medicine – "****PPARγ activation treats sepsis-mediated cardiac dysfunction: Can a discarded drug treat a lethal disease?"*

May 2012 ***Emory University***, Division of Cardiology, Emory Program in Cardiovascular Outcomes Research and Epidemiology, Atlanta GA - *"Sepsis-induced cardiac dysfunction: Curing an inflamed heart by feeding it"*

April 2012 ***Univ. of Bridgeport***, Department of Biology, Bridgeport CT: **"***Curing an Inflamed Heart by Feeding It*"

Nov 2011 ***Harvard Medical School***, Dept. of Cancer Immunology & AIDS, Dana Farber Cancer Institute, Boston, MA - *"Sepsis-induced cardiac dysfunction: Curing an inflamed heart by feeding it"*

Feb 2007 ***Columbia University***, Department of Medicine, Division of Preventative Medicine & Nutrition: "*A dominant negative form of the transcriptional factor c-Jun modifies two opposing mechanisms that affect in vivo the plasma lipid levels"*.

Invited seminars (Institutes abroad)

Nov 2025 ***Ghent University, Belgium -*** FGF21 signaling activation: Treating obesity at the expense of cardiac hypertrophy?

Nov 2025 ***University of Oxford, UK, Head of Department Seminar, Department of Physiology, Anatomy & Genetics -*** FGF21 signaling activation: Treating obesity at the expense of cardiac hypertrophy?

Nov 2025 ***University College London, UK, Division of Medicine, Medicine Case and Seminar Series -*** FGF21 signaling activation: Treating obesity at the expense of cardiac hypertrophy?

Apr 2024 ***University of Patras Medical School, Greece -*** Hepato-cardiac FGF21 signaling: Treating obesity but promoting cardiac hypertrophy?

Apr 2024 ***Humanitas University, Milan, Italy -*** FGF21: Treating obesity at the expense of cardiac hypertrophy?

Apr 2024 ***University of Torino, Italy -*** FGF21: Treating obesity at the expense of cardiac hypertrophy?

Jun 2023 ***University of Cyprus, Biobank.cy Center of Excellence in Biobanking and Biomedical Research -*** Krüppel-like factor 5 (KLF5): An emerging foe of Heart Failure

May 2023 ***University of Patras Medical School, Patras, Greece -*** Cardiac metabolism: Interventions and treatments of heart failure

Apr 2023 ***Trinity Translational Medicine Institute, Trinity College Dublin, Ireland -*** Managing Cardiac Metabolic Pathways to Treat Cardiomyopathy (Keynote speaker)

Dec 2022 ***Charité – Universitätsmedizin Berlin, Campus Virchow-Klinikum -*** GLUT1-dependent activation of KLF5 drives cardiomyopathy in diabetes

Dec 2022 ***University of Heidelberg, Institute of Experimental Cardiology -*** Krüppel-like factor 5: A new component of cardiac toxicity

Jun 2021 ***Cyprus Society of Biology -*** Krüppel-like factor 5: An underappreciated foe of cardiac function (webinar)

Mar 2021 ***Hellenic Society of Physiology -*** Navigating cardiac metabolism with KLF5 to treat cardiomyopathy (webinar).

May 2019 ***University of Patras Medical School, Patras, Greece -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

May 2019 ***San Raffaele Hospital, Diabetes Research Institute, Milan, Italy -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

Aug 2018 ***Charité - Universitätsmedizin Berlin, Institute of Gender in Medicine & Center for Cardiovascular Research, Germany -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

May 2018 ***Newcastle University, UK -*** Cardiac metabolism: A platform for interventions and treatments of heart dysfunction

Nov 2017 ***University College London, UCL Institute of Cardiovascular Science, UK -*** Cardiac function in sepsis: Treating an inflammatory disease with metabolic interventions

Jun 2017 ***Aristotelian University of Thessaloniki, Greece –*** Myocardial metabolism as a platform for interventions aiming to correct cardiac function

Dec 2016 ***Hellenic Pasteur Institute, Athens, Greece -*** Cardiomyocyte KLF5: How sepsis led to the discovery of a novel regulator of cardiac and systemic metabolism

Jul 2016 ***Aristotle University of Thessaloniki, Greece -*** Cardiomyocyte KLF5: From septic and diabetic cardiac dysfunction to regulation of systemic metabolism, cardiac injury, and ageing

May 2016 ***Goethe University Frankfurt, Germany, SFB seminar series -*** Cardiomyocyte KLF5: From septic and diabetic cardiac dysfunction to regulation of systemic metabolism, cardiac injury, and ageing

May 2016 ***Division of Cardiology, Friedrich-Schiller-University*** Jena, Germany - Cardiac myocyte KLF5: How sepsis indicated a novel regulator of cardiac fatty acid oxidation

May 2015 ***Institute for Molecular Biology & Biotechnology*****,** Heraklion, Greece – "KLF5: A novel regulator of cardiac and systemic metabolism"

Nov 2012 **University of Patras, Greece,** School of Medicine, Dept of Pharmacology – "*Induction of fatty acid oxidation prevents cardiac dysfunction in sepsis*"

Oct 2010 **Hellenic Medical Society of the UK & the Royal Society of Medicine**, London UK **-** *"Disease: an indication of physiological devastation or an adaptive mechanism to particular challenges?"*

Jun 2007 **University of Crete**, Division of Basic Sciences, Graduate Program in the Molecular Basis of Human Disease: "*Role of the transcriptional factor c-Jun in lipid metabolism"*.

SCIENTIFIC CONFERENCES

Invited talks (National conferences)

Apr 2025 **Konstantinos Drosatos**: "FGF21: A metabolic hormone that mediates hepato-cardiac pro-hypertrophic signaling". American Physiology Summit, Baltimore, MD

Feb 2025 **Konstantinos Drosatos**: "Hepato-cardiac signaling in control of pathologic cardiac hypertrophy". Utah Cardiac Recovery Symposium, Salt Lake City, UT

Sep 2024 **Konstantinos Drosatos**: "Hepatocardiac signaling in charge of cardiac hypertrophy". Society for Heart and Vascular Metabolism, St Louis, MO

Aug 2024 **Konstantinos Drosatos**: "GLUT1: A central element of KLF5 activation and diabetic cardiomyopathy". International Society for Heart Research-North American Section, Long Beach, CA

Feb 2024 **Konstantinos Drosatos**: "FGF21: Treating obesity while causing cardiac hypertrophy?". International Hawaii Cardiovascular Symposium, Honolulu, HI

Nov 2023 **Konstantinos Drosatos**: "Liver-heart crosstalk in driving cardiac hypertrophy". 2023 Scientific Sessions, American Heart Association, Philadelphia, PA, USA

Sep 2023 **Konstantinos Drosatos**: "GLUT1: A Central Element of KLF5 Activation and Diabetic Cardiomyopathy". 10th Annual Meeting of the North American Section of the International Academy of Cardiovascular Sciences – Tampa, FL

Sep 2023 **Konstantinos Drosatos**: Kruppel-like Factor 5: Ένας νέος μοριακός στόχος για τη θεραπεία πολλαπλών τύπων καρδιακής νόσου. Heart Vessels & Stroke: A Forum of Innovations In Cardiovascular Medicine – Kalamata, Greece

Feb 2023 **Konstantinos Drosatos**: "Krüppel-like factor 5: A novel component of cardiac glucolipotoxicity in diabetic cardiomyopathy". 6th Annual IHCVS Conference - Honolulu, Hawaii.

Oct 2021 **Konstantinos Drosatos**: "Navigating cardiomyocyte metabolism with Krüppel-like factor 5". 3rd international symposium of Global Talents in Science (virtual symposium)

Sep 2021 **Konstantinos Drosatos**: Resolving cardiovascular complications in sepsis by targeting JNK signaling. North American Section-International Society for Heart Research 40th annual conference "Novel Mechanisms of Heart Failure: Advancing New Therapies", Denver, CO, USA.

Aug 2021 **Konstantinos Drosatos**: Krüppel-like factor 5: A transcriptional driver of cardiac metabolic remodeling. AHA-BCVS 2021 Scientific Sessions, Virtual Event

Feb 2020 **Konstantinos Drosatos**: Krüppel-like factor 5: An underappreciated enemy of cardiomyocyte function. 4th Annual 2020 International Hawaii Cardiovascular Symposium, Honolulu, HI.

Nov 2019 **Konstantinos Drosatos**: Metabolic Regulation in Cardiomyopathy; AHA Scientific Sessions 2019, Philadelphia, PA USA.

Jul 2019 **Konstantinos Drosatos**: Role of Cardiomyocyte KLF5 in Diabetic Cardiomyopathy; AHA Basic Cardiovascular Sciences 2019 Scientific Sessions, Boston, MA, USA

Nov 2017 **Konstantinos Drosatos**: Cardiomyocyte KLF5 regulates adiposity via FGF21, American Heart Association Scientific Sessions 2017, Anaheim, CA, USA

Sep 2017 **Konstantinos Drosatos**: Activation of cardiac metabolism: Novel pathways in treating septic cardiac dysfunction. The Fifth Annual Temple Translational Science Symposium, Philadelphia, USA

Jun 2017 **Konstantinos Drosatos**: Cardiac toxicity of dual PPARα/γ activation. International Society for Heart Research-North American Section, New Orleans, USA

Aug 2016 **Konstantinos Drosatos**: KLF5 in the Control of Cardiac and Systemic Metabolism. FASEB Science Research Conference: KLF and SP Transcription Factors in Disease and Regenerative Medicine. Snowmass, CO, USA

Nov 2015 **Konstantinos Drosatos**: Cardiomyocyte KLF5 regulates cardiac and systemic metabolism – American Heart Association Scientific Sessions 2015, Orlando, FL, USA

Jul 2015 **Konstantinos Drosatos**: Cardiomyocyte Klf5: A Novel Regulator of Cardiac and Systemic Energetics, American Heart Association – Basic Cardiovascular Sciences 2015 Scientific Sessions, New Orleans, LA, USA

Invited talks (International conferences)

Oct 2025 **Konstantinos Drosatos**: "Unraveling the complex landscape of KLF5-dependent cardiotoxicity". The 36th Great Wall International Congress of Cardiology & Asian Heart Society Congress 2025. Beijing, China

Sep 2022 **Konstantinos Drosatos**: "Cardiomyocyte KLF5 induces various types of heart failure". NAS ISHR Congress 41st "Advances in Cardiovascular Medicine Through Diversity, Equity, and Inclusion supported Education, Research, and Technology Innovation". Winnipeg, Manitoba, Canada

Jun 2022 **Konstantinos Drosatos**. Krüppel-like factor 5: Causing cardiomyopathy by impairing metabolic pathways. ISHR World Congress XXIV 'Heart Research, Innovation, Translation - Cardiovascular science for the next generation'. Berlin, Germany

Sep 2020 **Konstantinos Drosatos**. KLF5: An "enemy" of cardiomyocyte biology that had gone unnoticed – CardioRNA Live! European Union COST Action – WG CardioRNA (virtual conference).

Nov 2019 **Konstantinos Drosatos**: Cardiac lipotoxicity by dual PPARα/γ agonists: How a combined treatment of hyperlipidemia and hyperglycemia caused cardiac dysfunction; 8th Symposium Of Working Groups Of The Hellenic Society Of Atherosclerosis, Athens, Greece

Oct 2018 **Konstantinos Drosatos**: Cardiomyocyte KLF5 drives diabetic cardiomyopathy; 6th International Conference on Biology and Pathobiology of KLF/Sp Transcription Factors, Kyoto, Japan

Apr 2016 **Konstantinos Drosatos**: KLF5: An underappreciated transcriptional regulator of cardiac and systemic metabolism. International Society for Heart Research World Congress, Buenos Aires, Argentina

Dec 2016 **Konstantinos Drosatos**: Molecular mechanisms in septic cardiac dysfunction. Hellenic Society for Immunology, Thessaloniki, Greece

Oral presentations (based on abstract submission - presenting author)

Nov 2025 Georgios Siokatas, Matthew Hoffman, Nikolaos Mylonas, Konstantinos E Hatzistergos, Craig H Selzman, Stavros G Drakos, **Konstantinos Drosatos**. Inhibition of a cardioprotective miR family by cardiomyocyte KLF5 via 3 circular RNAs. Scientific Sessions, American Heart Association, New Orleans, LA, USA

Oct 2024 Nikolaos Mylonas, Georgios Siokatas, Effimia Zacharia, Christine Pol, Tyler Rolland, Ioannis D. Kyriazis, Matthew Hoffman, Alycia Hildebrand, Thomas Bannister, Erhe Gao, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, John Elrod, John M. Canty Jr, Ioanna Andreadou, Brian Weil, **Konstantinos Drosatos**. Targeting KLF5: A Novel Therapeutic Approach to Reduce Myocardial Ischemia/Reperfusion Injury. Dawn of the Precision Medicine Era: Druggable and undruggable KLF/SP factors, phosphatases, and other signaling effectors in human disease. Delphi, Greece

Aug 2024 Sobuj Mia, Georgios Siokatas, Rafailia Sidiropoulou, Matthew Hoffman, Konstantinos Fragkiadakis, Eftychia Markopoulou, Rajika Roy, Scott Blair, Yasuhide Kuwabara, Erjola Rapushi, Catherine A Makarewich, Erhe Gao, Walter J Koch, Jeffery D Molkentin, Maria Marketou, **Konstantinos Drosatos**. Hepato-cardiac interorgan communication controls cardiac hypertrophy via combined endocrine-autocrine FGF21 signaling. North American Section-International Society for Heart Research, Long Beach, CA, USA (Awarded 1st place in the Young Investigator Competition Award)

Aug 2024 Sobuj Mia, Georgios Siokatas, Rafailia Sidiropoulou, Matthew Hoffman, Konstantinos Fragkiadakis, Eftychia Markopoulou, Rajika Roy, Scott Blair, Yasuhide Kuwabara, Erjola Rapushi, Catherine A Makarewich, Erhe Gao, Walter J Koch, Jeffery D Molkentin, Maria Marketou, **Konstantinos Drosatos**. Hepato-cardiac interorgan communication controls cardiac hypertrophy via combined endocrine-autocrine FGF21 signaling. Kern Lipid Conference, Snowmass, CO, USA

Feb 2024 Georgios Siokatas, Matthew Hoffman, Nikolaos Mylonas, Konstantinos E Hatzistergos, Craig H Selzman, Stavros G Drakos, **Konstantinos Drosatos**. Cardiomyocyte KLF5 inhibits the entire miR-30-5p family in ischemic cardiomyopathy likely via activation of circular RNA circPRDM5. Utah Cardiac Recovery Symposium, Salt Lake City, UT, USA

Nov 2023 Sobuj Mia, Rafailia Sidiropoulou, Matthew Hoffman, Eftychia Markopoulou, Konstantinos Fragkiadakis, Georgios Siokatas, Veera Ganesh Yerra, Craig H. Selzman, Stavros Drakos, Dipayan Chaudhuri, Jeffery D. Molkentin, Maria Marketou, **Konstantinos Drosatos**. A hepato-cardiac FGF21 signaling axis promotes cardiac hypertrophy. AHA Scientific Sessions 2023, Philadelphia, PA, USA

Sep 2023 Sobuj Mia, Rafailia Sidiropoulou, Matthew Hoffman, Eftychia Markopoulou, Konstantinos Fragkiadakis, Georgios Siokatas, Veera Ganesh Yerra, Craig H. Selzman, Stavros Drakos, Dipayan Chaudhuri, Jeffery D. Molkentin, Maria Marketou, **Konstantinos Drosatos**. "A Hepato-Cardiac FGF21 Signaling Axis Promotes Pathological Cardiac Hypertrophy". 10th Annual Meeting of the North American Section of the International Academy of Cardiovascular Sciences. Tampa, FL, USA

Nov 2022 Sobuj Mia, Rafailia Sidiropoulou, Matthew Hoffman, Eftychia Markopoulou, Craig H. Selzman, Stavros Drakos, Dipayan Chaudhuri, **Konstantinos Drosatos.** A hepato-cardiac FGF21 Axis Activates a Cardiac FGF21 Autocrine Mechanism That Causes Hypertrophy With Pressure Overload. AHA Scientific Session 2022, Chicago, IL, USA

Jul 2022 Sobuj Mia, Ioannis D. Kyriazis, Rafailia Sidiropoulou, Daniel Hill, Athanasios Mantalaris, **Konstantinos Drosatos**. Inhibition of Cardiac Glucose Transporter 1 Suppresses Early Glucose Dependency and KLF5 activation and Treats Cardiomyopathy in Diabetes. AHA-BCVS Scientific Sessions 2022, Chicago, IL, USA

Feb 2022 Sobuj Mia, Rafailia Sidiropoulou, Matthew Hoffman, Eftychia Markopoulou, Craig H. Selzman, Stavros Drakos, Dipayan Chaudhuri, **Konstantinos Drosatos**. A hepato-cardiac FGF21 Axis Activates a Cardiac FGF21 Autocrine Mechanism that Drives Hypertrophy During Pressure Overload. Utah Cardiac Recovery Symposium (U-CARS) (virtual conference)

Nov 2020 Ioannis D. Kyriazis, Matthew Hoffman, Lea Gaignebet, Anna Maria Lucchese, Chao Wang, Thomas D. Bannister, Melpo Christofidou-Solomidou, Shin-ichi Oka, Junichi Sadoshima, Walter J. Koch, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, **Konstantinos Drosatos**. Cardiomyocyte-KLF5 Expression is Increased by FOXO1 and Accounts for Cardiomyopathy in Type-1 Diabetes –**AHA Scientific Sessions 2020; Finalist for the "Melvin L. Marcus Early Career Investigator Award in Cardiovascular Sciences"**

Apr 2020 Hoffman, M., Kyriazis, I.D., Lyons, W., Rajan, S., Gao, E., Khan, M., Bannister, T.D., Yang, V.W., Bialkowska, A.B., Selzman, C.H., Drakos, S., **Drosatos, K**. Cardiomyocyte Krüppel-like Factor 5 Regulates Ceramide Biosynthesis and miR-30 Suppression in Ischemic Cardiomyopathy and Promotes Systolic Dysfunction. Experimental Biology; San Diego, CA, USA - **Won an ASBMB travel award**

Jan 2020 Hoffman, M., Kyriazis, I.D., Dimitriou, A., Mishra, S.K., Koch, W.J., **Drosatos, K**. Inhibition of cJun-N-Terminal-Kinase in Polymicrobial Sepsis Alleviates Systolic Dysfunction and Reverses Hypotension via Suppression of B-Type Natriuretic Peptide. U-CARS, Salt Lake City, UT – **Best abstracts oral presentation**

Ioannis D. Kyriazis, Matthew Hoffman, Lea Gaignebet, Thomas D. Bannister, Melpo Christofidou-Solomidou, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, **Konstantinos Drosatos**. FOXO1 increases cardiomyocyte KLF5 Expression, which induces oxidative stress, lipotoxicity and cardiomyopathy in type 1 diabetes. AHA Scientific Sessions 2019, Philadelphia, PA USA

Nov 2017 Christine J. Pol, Nina M Pollak, Michael J Jurczak, Iordanes Karagiannides, Panagiotis Ntziachristos, Diego A Scerbo, Brett R Brown, Mesele C Valenti, Iannis Aifantis, Gerald I Shulman, Ira J Goldberg, **Konstantinos Drosatos**: Cardiomyocyte-Specific KLF5 Deletion Accelerates Diet-Induced Obesity via Cardiac FGF21. American Heart Association Scientific Sessions 2017, Anaheim, CA, USA

Oct 2017 Charikleia Kalliora, Shin-ichi Oka, Melissa J. Lieu, Yujia Yue, Christine Pol, Mesele-Christina Valenti, Ying Tian, Diego Scerbo, P. Christian Schulze, Mete Civelek, Brian N. Finck, Muniswamy Madesh, Ira J. Goldberg, **Konstantinos Drosatos.** PGC1α Activation Corrects Cardiac Dysfunction Caused By Anti-Diabetic Dual-PPARα/γ Therapy. Mid-Atlantic Pharmacology Society, ASPET Regional Chapter, 2017 annual meeting

Jun 2015 Christine J. Pol, Mesele-Christina Valenti, Sarah M. Schumacher, Ancai Yuan, Erhe Gao, Ira J. Goldberg, Walter J. Koch, **Konstantinos Drosatos**. KLF5 regulates Ppara and expression changes during myocardial ischemia/reperfusion in mice. Annual Research Day, Center for Translational Medicine & Cardiovascular Research Center, Temple University, Philadelphia, PA, USA

Jan 2015 Ni-Huiping Son, Chad Trent, Florian Willecke, **Konstantinos Drosatos**, Ira J. Goldberg. Lipid Uptake, the Route to Lipid Droplet Formation and Cardiomyocyte Toxicity; Keystone Symposia, Santa Fe, NM, USA

Aug 2014 **Konstantinos Drosatos**, Nina Pollak, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Shunichi Homma, Iannis Aifantis, Ira J. Goldberg. KLF5: A master transcriptional regulator of cardiac fatty acid metabolism and obesity; FASEB Science Research Conferences Biology and Pathobiology of Kruppel-Like Factors; Base Village Conference Center, Snowmass, Colorado

Jul 2014 **Konstantinos Drosatos**, Nina Pollak, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Shunichi Homma, Iannis Aifantis, Ira J. Goldberg. Klf5 Regulates Cardiac Pparα and Med13 and affects Fatty Acid Metabolism And Obesity; American Heart Association – Basic Cardiovascular Sciences 2014 Scientific Sessions, Las Vegas, NV, USA

May 2014 **Konstantinos Drosatos**, Nina Pollak, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Shunichi Homma, Iannis Aifantis, Ira J. Goldberg. Klf5 is a novel Transcriptional Regulator of Cardiac PPARα and Med13 and affects Fatty Acid Metabolism And Obesity ; International Society for Heart Research-North American Section, Miami, FL, USA

Feb 2013 **K Drosatos**; A Matta; C Trent; R Khan; C Schulze; S Homma; I Goldberg. PPARγ activation prevents cardiac dysfunction in sepsis via stimulation of energy production and prevention of mitochondrial loss; Keystone Symposia

P C Schulze; R Ji; **K Drosatos**; H Akashi; S Yu; H Chen; I Goldberg; S Homma. Inhibition of de novo ceramide synthesis improves myocardial function in chronic ischemic cardiomyopathy; Keystone symposia

Nov 2012 **Konstantinos Drosatos**, Raffay S. Khan, Shuiqing Yu, Shunichi Homma, Ira J. Goldberg: Activation of Pparγ Increases Energy Production and Prevents Cardiac Dysfunction in Sepsis; American Heart Association Scientific Sessions, Orlando FL, USA

Kemal M Akat, Aleksandra Mihailovic, Zev Williams, Miguel Brown, Pavel Morozov, Hiroo Takayama, **Konstantinos Drosatos**, Thomas Tuschl, P. Christian Schulze: High-Throughput Sequencing Analysis of microRNA Profile Dynamics in Patients with Advanced Heart Failure Undergoing Ventricular Assist Device Placement in Comparison to Normal Adult and Fetal Cardiac Expression; American Heart Association Scientific Sessions, Orlando FL, USA

Nov 2006 **Konstantinos Drosatos**, Kyriakos E. Kypreos, Vassilis I. Zannis. "Residues Leu261, Trp264 and Phe265 account for apolipoprotein E induced dyslipidemia and affect the biogenesis of apolipoprotein E containing High Density Lipoprotein"; American Heart Association Scientific Sessions, Chicago IL, USA

Poster presentations (based on abstract submission - presenting author)

Nov 2025 Frederick Sherman*, Georgios Siokatas*, Craig Selzman, Stavros Drakos, **Konstantinos Drosatos**. A novel circular RNA family that suppresses an entire cardioprotective miR family and is linked to lack of myocardial response to LVAD therapy. 2025 American Heart Association Scientific Sessions, New Orleans, LA, USA

Sobuj Mia, Thapa Kajol, Georgios Siokatas, Karthi Sreedevi, Alexey Zaitsev, Junco Warren, **Konstantinos Drosatos**. Inhibition of Cardiac GLUT1 Suppresses KLF5 Activation and Ameliorates Diabetic Cardiomyopathy. 2025 American Heart Association Scientific Sessions, New Orleans, LA, USA

Steph Barr, Taejeong Song, Rohit R. Singh, Brandon Ason, Megan Maguire, Michelle L. Nieman, John N. Lorenz, Henry M. Gong, Jonathan Kirk, Erjola Rapushi**, Konstantinos Drosatos**, Kalyani Ananthamohan, James W. McNamara, and Sakthivel Sadayappan. Myosin S2 and cMyBP-C Interactions in Cardiac Contractility and Hypertrophic Cardiomyopathy. 2025 American Heart Association Scientific Sessions, New Orleans, LA, USA

Oct 2025 Georgios Siokatas, Matthew Hoffman, Nikolaos Mylonas, Fred Sherman, Konstantinos E Hatzistergos, Craig H Selzman, Stavros G Drakos, **Konstantinos Drosatos**. Cardiomyocyte KLF5 inhibits miR-30-5p family in

ischemic cardiomyopathy via stimulation of 3 circular RNAs. Ohio Physiology Society Conference, Cincinnati, OH, USA

Kajol Thapa, Erjola Rapushi, Georgios Siokatas, Karthickeyan Chella Krishnan, **Konstantinos Drosatos**. Ventricular and Sex-Specific Remodeling of GLUT1 in a Mouse Model of HFpEF. Ohio Physiology Society Conference, Cincinnati, OH, USA

Sobuj Mia, Kajol Thapa, Georgios Siokatas, Karthi Sreedevi, Alexey Zaitsev, Junco Warren and **Konstantinos Drosatos**. Inhibition of Cardiac GLUT1 Inhibits KLF5 Activation and Diabetic Cardiomyopathy. Ohio Physiology Society Conference, Cincinnati, OH, USA

Feb 2024 Georgios Siokatas, Matthew Hoffman, Nikolaos Mylonas, Konstantinos E Hatzistergos, Craig H Selzman, Stavros G Drakos, **Konstantinos Drosatos**. Cardiomyocyte KLF5 inhibits the entire miR-30-5p family in ischemic cardiomyopathy likely via activation of circular RNA circPRDM5. 2024 Utah Cardiac Recovery Symposium, Salt Lake City, UT, USA

Mar 2022 Sobuj Mia, Ioannis D. Kyriazis, Rafailia Sidiropoulou, Athanasios Mantalaris, **Konstantinos Drosatos**. "Inhibition of Cardiac Glucose Transport Corrects Diabetic Cardiomyopathy Even Without Alleviation of Hyperglycemia". Experimental Biology 2022. Philadelphia, PA, USA

Aug 2020 Amit Kumar Rai, Rajika Roy, Zhongjian Cheng, Ioannis D. Kyriazis, Maria Cimini, Claudio de Lucia, Michela Piedepalumbo, Andrea Elia, Chunlin Wang, Sreejit Gopala Krishna, Mahmood Khan, Harpreet Singh, **Konstantinos Drosatos**, Prabhakara R Nagareddy, Walter J Koch, Raj Kishore, Venkata Naga Srikanth Garikipati. Role of mitochondrial ribosomal protein L7/L12 (MRPL12) in diabetic heart disease. American Heart Association Basic Cardiovascular Sciences 2021 Scientific Sessions (virtual)

Nov 2019 Hoffman, M., Kyriazis, I.D., Dimitriou, A., Mishra, S.K., Koch, W.J., **Drosatos, K**. Activation of JNK signaling in Polymicrobial Sepsis Increases the Expression of B-Type Natriuretic Peptide, Which Promotes Septic Hypotension. AHA Scientific Sessions 2019, Philadelphia, PA USA.

Hoffman, M., Kyriazis, I.D., Lyons, W., Rajan, S., Gao, E., Khan, M., Selzman, C.H., Drakos, S., **Drosatos, K**. Cardiomyocyte Krüppel-like Factor 5 Promotes Systolic Dysfunction in Ischemic Cardiomyopathy, Increases Ceramide Biosynthesis, and Suppresses the miR-30 Family. AHA Scientific Sessions 2019, Philadelphia, PA USA

Jul 2019 Ioannis D. Kyriazis, Matthew Hoffman, Charikleia Kalliora, Lea Gaignebet, Thomas D. Bannister, Melpo Christofidou-Solomidou, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, **Konstantinos Drosatos**. Cardiomyocyte-KLF5 Expression is Increased by FOXO1 and Accounts for Cardiomyopathy in Type-1 Diabetes. American Heart Association Basic Cardiovascular Science 2019 Scientific Sessions; Boston, USA – **Won a travel award**

John P Morrow, Leroy C Joseph, Michael V Reyes, **Konstaninos Drosatos**. Sepsis-Induced Cardiomyopathy is Caused by Mitochondrial Dysfunction Due to Protein Kinase C (PKC) Delta Activation. American Heart Association Basic Cardiovascular Sciences 2019 Scientific Sessions, Boston, MA, USA

Jun 2019 Hoffman, M., Kyriazis, I.D., Lyons, W., Rajan, S., Gao, E., Khan, M., Selzman, C.H., Drakos, S., Drosatos, K. Krüppel-like factor 5 Promotes Cardiac Dysfunction in Ischemic Cardiomyopathy via De Novo Ceramide Synthesis and miR-30 Suppression. 18th Annual Dawn Marks Day; Temple University, Philadelphia, USA – **1st Oral Presentation Award**

Apr 2019 Ioannis D. Kyriazis, Matthew Hoffman, Charikleia Kalliora, Lea Gaignebet, Thomas D. Bannister, Melpo Christofidou-Solomidou, Ira J. Goldberg, Vincent W. Yang, Agnieszka B. Bialkowska, Georgios Kararigas, **Konstantinos Drosatos**. Cardiac KLF5 is upregulated by FOXO1 and accounts for cardiomyopathy in type 1 diabetes. Experimental Biology; Orlando, FL, USA - **Won an ASBMB travel award**

Jun 2018 Kokkinaki, D, Hoffman, M, Kalliora, C, Shanmughapriya, S, Kyriazis, I, Tomar, D, Park, JY, Wang, H, Yang, XF, Muniswamy, M, Christofidou-Solomidou, M, Drosatos, K. The antioxidant LGM2605 improves mitochondrial function and alleviates septic cardiac dysfunction .41st Annual Conference on Shock. Scottsdale, AZ, USA

Oct 2017 Charikleia Kalliora, Melissa J. Lieu, Yujia Yue, Christine Pol, Mesele-Christina Valenti, Ying Tian, Diego Scerbo, P. Christian Schulze, Muniswamy Madesh, Mete Civelek, Brian N. Finck, Ira J. Goldberg, Konstantinos Drosatos. PGC1α activation blunts cardiac dysfunction caused by anti-diabetic dual-PPARα/γ agonists: Correction of a failed therapy. Cell Symposia: Metabolic Disease Therapies. San Diego, CA, USA

Jul 2017 Charikleia Kalliora, Melissa J. Lieu, Yujia Yue, Christine Pol, Mesele-Christina Valenti, Ying Tian, Diego Scerbo, P. Christian Schulze, Muniswamy Madesh, Mete Civelek, Brian N. Finck, Ira J. Goldberg, Konstantinos Drosatos. PGC1α activation corrects cardiac dysfunction caused by anti-diabetic dual-PPARα/γ therapy. American Heart Association Basic Cardiovascular Sciences Scientific Sessions 2017, Portland, OR, USA

May 2017 John P. Morrow, Leroy Joseph, Dimitra Kokkinaki, Prakash Subramanyam, Emanuele Barca, Henry Colecraft, Michio Hirano, and Konstantinos Drosatos. Inhibition of NAPDH oxidase 2 (NOX2) prevents sepsis-induced cardiomyopathy by improving calcium handling and mitochondrial function. Heart Rhythm Scientific Sessions, May 10-13, 2017; Chicago, IL, USA

Apr 2017 Christine J Pol*, Nina M Pollak*, Michael J Jurczak, Iordanes Karagiannides, Panagiotis Ntziachristos, Diego A Scerbo, Iannis Aifantis, Gerald I Shulman, Ira J Goldberg, Konstantinos Drosatos. Cardiac Myocyte KLF5 Regulates Adiposity via Alteration of Cardiac FGF21. Experimental Biology; Chicago, IL, USA – **Won a travel award**

Oct 2016 Pollak N.*, Pol Christine*, Jurczak MJ, Karagiannides I, Ntziachristos P, Scerbo D, Aifantis I, Shulman GI, Goldberg IJ, Drosatos K; Equal contribution. Cardiac myocyte KLF5 regulates adiposity via alteration of cardiac FGF21. Mid-Atlantic Pharmacology Society, ASPET Regional Chapter 2016 Annual Meeting; Philadelphia, PA, USA

Mesele-Christina Valenti, Dimitra Kokkinaki, Nicholas E. Hoffman, Leroy C. Joseph, John P. Morrow, Muniswamy Madesh, Konstantinos Drosatos. Inhibition of NAPDH oxidase 2 (NOX2) prevents sepsis-induced cardiomyopathy. Mid-Atlantic Pharmacology Society, ASPET Regional Chapter 2016 Annual Meeting; Philadelphia, PA, USA

Lyons, Walker, Hoffman, M., Valenti, MC., Brown, B. and Drosatos, K. Mir-30 regulates cardiomyocyte Peroxisome Proliferator Activating Receptor Co-activator (Pgc)-1. Mid-Atlantic Pharmacology Society, ASPET Regional Chapter 2016 Annual Meeting; Philadelphia, PA, USA

Sep 2016 Lyons, Walker**,** Hoffman, M., Valenti, M.C., Brown, B., and Drosatos, K**.** Mir-30 regulates cardiomyocyte Peroxisome Proliferator Activating Receptor Co-activator (Pgc)-1. Lewis Katz School of Medicine and Fox Chase Cancer Center, Fourth Annual Temple, Translational Science Symposium – **Won the poster award**

Pollak N.*, Pol Christine J.*, Jurczak M.J., Karagiannides I., Ntziachristos P., Scerbo D., Aifantis I., Shulman G.I., Goldberg I.J., Drosatos K. Cardiac myocyte KLF5 regulates adiposity via alteration of cardiac FGF21. Lewis Katz School of Medicine and Fox Chase Cancer Center, Fourth Annual Temple, Translational Science Symposium *Equal contribution

Jul 2016 Christine J. Pol, Mesele-Christina Valenti, Sarah M. Schumacher, Ancai Yuan, Erhe Gao, Ira J. Goldberg, Walter J. Koch, **Konstantinos Drosatos**. Initial increase of Klf5 and Ppara expression after myocardial ischemia/reperfusion in mice appears to be critical for survival; American Heart Association Basic Cardiovascular Sciences Scientific Sessions 2016, Phoenix, AZ, USA

Nov 2015 Ruiping Ji, Xianghai Liao, Xiaokan Zhang, Hongfeng Jiang, **Konstantinos Drosatos**, Peter J Kennel, Estibaliz Castillero, Jennifer Y Chang, Shunichi Homma, Ira Goldberg, Paul Christian Schulze. De novo Ceramide Synthesis is Upregulated by Cardiac Ischemia and is Associated With Cardiomyocyte Apoptosis and Mitochondrial Dysfunction; American Heart Association Scientific Sessions 2015, Orlando, FL, USA

Oct 2015 Christine J Pol, Mesele-Christina Valenti, Sarah M Schumacher, Ancai Yuan, Erhe Gao, Ira J Goldberg, Walter J Koch, **Konstantinos Drosatos**. Klf5 and Ppara Expression is Increased at the Early Stage and Reduced at the Late Stage of Myocardial Ischemia/Reperfusion in Mice; Mid-Atlantic Pharmacology Society, ASPET Regional Chapter, 2015 annual meeting – **Won the 2nd best poster award**

Melissa Jiahuey Lieu*, Yujia Yue*, Mesele-Christina Valenti, Diego Scerbo, P. Christian Schulze, Ira J. Goldberg, **Konstantinos Drosatos**. Cardiac PPARα and PPARγ compete for binding on PGC1α and regulation of its expression - Mid-Atlantic Pharmacology Society, ASPET Regional Chapter, 2015 annual meeting

Jul 2015 Christine J Pol, Mesele-Christina Valenti, Sarah M Schumacher, Ancai Yuan, Erhe Gao, Ira J Goldberg, Walter J Koch, **Konstantinos Drosatos**. Klf5 and Ppara Expression is Increased at the Early Stage and Reduced at the Late Stage of Myocardial Ischemia/Reperfusion in Mice; American Heart Association – Basic Cardiovascular Sciences 2015 Scientific Sessions

Jun 2015 Melissa Lieu, Yuija Yue, Mesele-Christina Valenti, **Konstantinos Drosatos**. PPARα and PPARγ compete for binding on human Pgc1a promoter and regulation of its expression; Annual Research Day, Center for Translational Medicine & Cardiovascular Research Center, Temple University

Jan 2015 **Konstantinos Drosatos**, Nina Pollak, Florian Willecke, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Shaodong Guo, Iannis Aifantis, Ira J. Goldberg. Hyperglycemia inhibits cardiac PPARα in mice via combined activation of FOXO1 and inhibition of KLF5; Keystone Symposia, Santa Fe, NM, USA

Nov 2014 **Konstantinos Drosatos**, Nina Pollak, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Shunichi Homma, Iannis Aifantis, Ira J. Goldberg. Klf5 Regulates Cardiac Pparα and Med13 and affects Fatty Acid Metabolism And Obesity; American Heart Association Scientific Sessions, Chicago IL, USA

Konstantinos Drosatos, Nina Pollak, Florian Willecke, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, P. Christian Schulze, Iannis Aifantis, Ira J. Goldberg. KLF5 mediates glucose-driven changes of PPARα in diabetes; American Heart Association Scientific Sessions, Chicago IL, USA

Konstantinos Drosatos, Nina Pollak, Michael John Jurczak, Panagiotis Ntziachristos, Chad M. Trent, Yunying Hu, Iannis Aifantis, Gerald I Shulman, Ira J. Goldberg. KLF5 is a transcriptional regulator of cardiac MED13 and affects high fat diet-induced obesity; American Heart Association Scientific Sessions, Chicago IL, USA

Florian Willecke, Ni Son, Xiang Fang, **Konstantinos Drosatos**, Nada Abumrad, Ira J. Goldberg. Endothelial Cell Specific CD36 Deletion Reduces Uptake of Fatty Acids by the Heart; American Heart Association Scientific Sessions, Chicago IL, USA

May 2014 **Konstantinos Drosatos**, Diego Scerbo, P. Christian Schulze, Ira J. Goldberg. Combined cardiac PPARα and PPARγ activation reduce PGC-1α gene expression and compromise binding of PPARγ on PGC-1α; International Society for Heart Research-North American Section, Miami, FL, USA

Feb 2013 **K Drosatos**; A Matta; C Trent; R Khan; C Schulze; S Homma; I Goldberg. PPARγ activation prevents cardiac dysfunction in sepsis via stimulation of energy production and prevention of mitochondrial loss; Keystone Symposia

P C Schulze; R Ji; **K Drosatos**; H Akashi; S Yu; H Chen; I Goldberg; S Homma. Inhibition of de novo ceramide synthesis improves myocardial function in chronic ischemic cardiomyopathy; Keystone Symposia

Feb 2011 **Konstantinos Drosatos**, Zoi Drosatos-Tampakaki, Raffay Khan, Vassilis I. Zannis, Ira J. Goldberg
Activation of the JNK signaling pathways reduces PPARα gene expression and myocardial fatty acid metabolism-associated markers. Keystone symposia, Molecular Cardiology: Disease Mechanisms and Experimental Therapeutics, Keystone CO, USA

Jun 2009 **Konstantinos Drosatos**, Dimitrios Iliopoulos and Vassilis I. Zannis
"MicroRNAs 122 AND 370 control genes involved in lipid metabolism and hepatic triglyceride accumulation"
XV International Symposium on Atherosclerosis, Boston MA, USA

May 2009 **Konstantinos Drosatos**, Kalyani G. Bharadwaj, Shota Ikeda, Anastasios Lymperopoulos, Rajiv Agarwal, Tae-Sik Park, Walter J. Koch, Ira J.Goldberg
"Cardiac lipotoxicity impairs β-adrenergic receptor function via activation of PKC signaling pathway"
International Society for Heart Research North American Section Meeting, Baltimore MD, USA

Konstantinos Drosatos, Joshua D. Brown, Tae-Sik Park and Ira J. Goldberg

"Lipotoxicity Reduces β-adrenergic Responsiveness In A Cardiomyocyte-derived Cell Line" Cardiovascular Research Initiative Symposium 2009, New York NY, USA

Apr 2009 Despina Sanoudou, Adelina Duka, **Konstantinos Drosatos**, K.C. Hayes, Vassilis I. Zannis "Role of Esrrg in the fibrate-mediated regulation of genes of lipid metabolism in human apoA-I transgenic mice". Arteriosclerosis, Thrombosis & Vascular Biology Annual Conference 2009, Washington DC, USA

Jul 2008 **Konstantinos Drosatos**, Joshua D. Brown, Tae-Sik Park and Ira J. Goldberg. "Induction Of Lipotoxicity In A Cardiomyocyte-derived Cell Line Reduces Cell Responsiveness To β-adrenergic Stimulation". Basic Cardiovascular Sciences Conference 2008 - Heart Failure: Molecular Mechanisms and Therapeutic Targets, Keystone CO, USA

Jun 2007 **Konstantinos Drosatos**, Despina Sanoudou, Kyriakos E. Kypreos, Dimitris Kardassis, Vassilis I. Zannis. A dominant negative form of the transcriptional factor c-Jun alters the expression of two lipid metabolism related genes that result in opposite effects on mouse plasma lipid levels" (P0714). European Human Genetics Conference 2007, Nice France, EU

Sep 2006 **Konstantinos Drosatos**, Kyriakos E. Kypreos, Despina Sanoudou, Dimitris Kardassis, Vassilis I. Zannis "A dominant negative form of the transcriptional factor c-Jun modifies two opposing mechanisms that affect in vivo the plasma lipid levels"; New England Hellenic Medical & Dental Society Boston MA, USA

Apr 2006 **Konstantinos Drosatos**, Kyriakos E. Kypreos, Despina Sanoudou, Dimitris Kardassis, Vassilis I. Zannis "Adenovirus mediated gene transfer of a dominant negative form of the transcriptional factor c-Jun in mice triggers distinct mechanisms with opposing effects on the mouse lipid levels", American Heart Association 7th Annual Conference on Atherosclerosis, Thrombosis & Vascular Biology, Denver CO, USA

May 2001 **Konstantinos Drosatos**, Athena Fountouli; "Analysis of Heat Shock Proteins 70 kDa in young root cells of plant Zea mays"; Hellenic Society for Biological Sciences, 23rd Annual Conference, Chios, Greece

TEACHING AND MENTORING EXPERIENCE

Teaching

Coursework

2022 - **Instructor in the Graduate Course Integrative Molecular Pharmacology (MCBP8023).** University of Cincinnati College of Medicine.
Course Director: Hong-Sheng Wang

2019 - **Instructor in the Graduate Program Molecular Basis of Diseases.** University of Crete Medical School
Director: Prodromos Sidiropoulos

2018 – 2021 **Instructor in the Graduate Course:** Advanced elective course for the PhD program of "Organ Metabolism and Molecular Pathology (BMSC 8907); Temple University – Topic: Molecular Biology of Hyperlipidemias.
Course directors: Jun Yu & Xiaofeng Yang

2017 - 2021 **Instructor in the Medical School Course**: Biological Systems I: Cardiovascular, Respiratory, and Renal Systems (Block 3 – MEDSM103), Lewis Katz School of Medicine at Temple University
Course directors: Rosario Scalia, Rebecca Sullivan

2015 - 2021 **Instructor in the Graduate Course**: Advanced elective course for the PhD Program of the "Cluster of Organ System and Translational Medicine": Advanced Pharmacology and Translational Medicine (BMSC 8905)
Course director: Xiaofeng Yang, MD, PhD, FAHA

2013 – 2014 **Instructor in the Graduate Course:** Molecular and Cellular Biology of Nutrients (G4020), PhD course, Columbia University
Course director: Li-Shin Huang

2001-2002 University of Crete, Department of Biology
Teaching assistant in undergraduate laboratory class of Biochemistry

1999-2000 Aristotelian University of Thessaloniki, Department of Biology
Teaching assistant in the Lab class of the "Mechanisms of Differentiation" undergraduate course

Visiting instructor

Oct-Nov 2020 **Greek Diaspora Fellowship Program (Institute for International Education)**: Competitive Fellowship supporting visiting lectureships (3 weeks) at the University of Crete, Aristotelian University of Thessaloniki and the University of Patras, Greece.

Sep 2017 **Invited lecturer**: Boston University, Molecular Mechanisms of Cardiovascular Disease – GMS BI 778-A1 2017

June 2017 **Science Teaching Exchange Program instructor***:* Aristotle University of Thessaloniki, Department of Biology & Hellenic Bioscientific Association of the USA

May 2017 **Instructor in the Mentoring Course** of the Biomedical Research Foundation of the Academy of Athens, Greece Course Director: Denny Cokkinos

2013 & 2014 **Instructor in the Graduate Course**: Molecular and Cell Biology of Nutrients (G4020), Columbia University Course director: Li-Shin Huang, Ph.D.

Mentoring

Mentor of faculty

2024 - **Sobuj Mia** (Assistant Professor-Research Track)

Training of post-doctoral fellows

2022 - 2023 **Veera Ganesh Yerra** (PhD in Pharmacology and Toxicology, NIPER, Hyderabad, India)

2020 - 2024 **Sobuj Mia** (Ph.D. in Molecular Biology, University of Tübingen, Germany)

2020 - 2021 **Sithara Thomas** (Ph.D. in Biological Sciences, CSIR – National Institute for Interdisciplinary Science and Technology, India)

2017-2020 **Ioannis Kyriazis (**Ph.D. in Health Sciences Department of Pharmacy, University of Patras, Greece)

2018-2019 **Effimia-Maria Zacharia** (Fellow of the "Stavros Niarchos Foundation" Research Training Program in Clinical & Experimental Medicine – Translational Track, 15 months)

2014-2017 **Christine Pol** (Ph.D. in Physiology, VU University Medical Center in Amsterdam, The Netherlands)

Training of graduate students

2024 - **Kajol Thapa** (PhD student - University of Cincinnati College of Medicine)

2023 -2025 **Erjola Rapushi** (Visiting MSc student – University of Crete, Greece)

2022 - **Georgios Siokatas** (Visiting PhD student – Aristotle University of Thessaloniki, Greece)

2022 -2023 **Nikolaos Mylonas** (Visiting PhD student – University of Athens, Greece)

2021 - 2022 **Aikaterini Dimou** (Visiting MSc student – University of Athens, Greece)

2020-2021 **Dimitra Palioura** (Visiting PhD candidate – Aristotelian University of Thessaloniki, Greece)

2020-2021 **Rafailia Sidiropoulou (**Visiting MSc student – Agricultural University of Athens, Greece**)**

2018-2019 **Eftychia Markopoulou** (Visiting MSc student – University of Athens, Greece)

2017-2020 **Matthew Hoffman** (MD-PhD student, Organ Systems & Translational Medicine, Temple University)

2016-2018 **Charikleia Kalliora** (Visiting MSc student, Graduate Program in Molecular Basis of Human Disease, University of Crete, Greece)

2016-2017 **Dimitra Kokkinaki** (MSc student, Graduate Program in Molecular Basis of Human Disease, University of Crete, Greece)

Training of undergraduate students

2025 **Shaktidharan Velu** (University of Cincinnati, Biomedical Engineering)
Frederick Sherman (Cornell University, Biological Sciences– American Heart Association, Summer Undergraduate Research Fellowship)
Evangelos Kolotouros (University of Athens Medical School)
Vasilios Lerakis (University of Athens Medical School)

2022 **Tessa Carby**, (Western Kentucky Univ. – American Heart Association, Summer Undergraduate Research Fellowship)

2020-2021 **Dimitra Barbara Tsetsekos** (Undergraduate student in Biochemistry, Temple University)

Research rotation students

2014 – today **Kajol Thapa** (University of Cincinnati College of Medicine)
Christine Vrakas (Biomedical Sciences Program Graduate student, Temple University)
Mellissa Lieu (Biomedical Sciences Program Graduate student, Temple University)
Yujia Yue (Biomedical Sciences Program Graduate student, Temple University)
Matthew Hoffman (MD-PhD student, Temple University)

Chao Gao (Biomedical Sciences Program Graduate student, Temple University)

Student workers

2024 – 2025 **Lydia Nelson-Mercer** (University of Cincinnati)
2023 – today **Paige Smith** (University of Cincinnati)
2022 - today **Skylar Young** (University of Cincinnati)
2023 – 2024 **Akshaya Jayasekaran** (University of Cincinnati)
2023 **Kanishka Saini** (University of Cincinnati)
2022 – 2023 **Akshit Gupte** (University of Cincinnati)
2022 – 2023 **Parneet Kaur** (University of Cincinnati)
2022 – 2023 **Ankita Poonia** (University of Cincinnati)
2022 – 2023 **Fabeha Tariq** (University of Cincinnati)

Short-term interns (2-3 months)

2022 **Angeliki Vakka** (University of Patras, School of Medicine – 2 months research internship; international scholarship)
2019 **Athanasios Katsalifis** (University of Crete, Department of Biology, Greece – 2 months lab rotation)
Lampros Pantazis (University of Patras Medical School, Greece – 2 months lab rotation)
2018 **Soula Christou** (University of Maryland – 2 months lab rotation)
Katerina Georgopoulou (University of Athens, School of Pharmacy – 2 months lab rotation)
2017 **Matthew Murray** (Medical student, Temple University)
2016 **Omer Kumas** (Istanbul University-Istanbul Faculty of Medicine Istanbul, Turkey – 2 months lab rotation)
Michael Spanos (University of Athens School of Medicine, Greece – 2 months lab rotation)
2015 **Alexandra Dimitriou** (University of Athens, Department of Biology, Greece - 2 months lab rotation)
Ozan Tatar (Kocaeli University School of Medicine, Turkey – 2 months lab rotation)
2014 & 2015 **Walker Lyons** (Medical student, Temple University)
2013-2014 **Nina Pollak**, Visiting student, Institute of Molecular Biosciences, University of Graz, Austria
2011-2013 **Amir Matta, MD**: Volunteer working on a project investigating the interrelationship between PPARα and PPARγ in the regulation of PGC-1
2008 **Madeleen Bosma**: Visiting graduate student (6-months Internship Metabolism and Nutrigenomics: HNE-72424, MSc Nutrition and Health, Wageningen University the Netherlands). Project title: Adenovirus-mediated expression of acetyl-CoA synthetase, peroxisome proliferator-activated receptor γ, and GPI-anchored lipoprotein lipase in a human cardiomyocyte cell line: Induction of cardiac lipotoxicity in vitro
2007-2014 Columbia University, School of Medicine
Columbia College students and international visiting students' lab training
2003 - 2006 Boston University School of Medicine
Training of visiting students in basic techniques of Molecular Biology

PhD Thesis advisory and examination committees

Graduate students at the University of Cincinnati

2026 **Chau Le**, University of Cincinnati, Cincinnati Children's Hospital Medical Center (Lab of Nicolas Nassar)
2025 **Gautam Vijaywargi**, University of Cincinnati (Lab of Bhagwat Prasd)
2025 **James Frazier**, University of Cincinnati (Lab of Karthick Chella Krishnan) (Qualifying exam committee)
2024 - **Corbin Azucenas**, University of Cincinnati (Lab of Theodosia Kalfa)
2022 - 2023 **Jeyashree Alagarsamy,** University of Cincinnati (Lab of David Hui)
2022 - 2024 **Vanessa Turkson**, University of Cincinnati (Lab of David Hui)

Graduate students at Temple University

2019 - 2022 **Nadina R. Latchman,** Temple University (Lab of John W. Elrod)
2020 - 2021 **Chidubem Eneanya,** Temple University (Lab of Domenico Pratico)
2018 – 2019 **Ryan LaCanna**, Temple University (Lab or Ying Tian)
2017 - 2020 **Akito Eguchi**, Temple University (Lab of Walter J. Koch)
2015 – 2020 **Melissa Lieu**, Temple University (Lab of Walter J. Koch)
2014 – 2016 **Ben Woodall**, Temple University (Lab of Walter J. Koch)

Graduate students at other universities

2023 **Anna Mavromanoli**, Johannes Gutenberg-University Mainz, Germany (Gutenberg Academy Program)
2021 - 2022 **Su Shi,** Boston University & Beth Israel Deaconess Medical Center (Lab of Peter Kang)
2020 **Antonia Katsouda,** Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece (Lab of Andreas Papapetropoulos)

2019 - **Dimitra Palioura**, Aristotelian University of Thessaloniki, Greece (Lab of Antigone Lazou)
2014 – 2018 **Shmuel Negussie**, Nova Southeastern University (Lab of Michelle A. Clark)
2014 – 2017 **Diego Scerbo**, Columbia University (Lab of Ira J. Goldberg)
2014 – 2015 **Peristera-Ioanna Paschou**, University of Patras, Greece (Lab of Kyriakos E. Kypreos)

Individual Research Project mentor
2017 **Charles Drummer** (Biomedical Sciences Graduate Program, Temple University)
2015 **Yujia Yue** (Biomedical Sciences Graduate Program, Temple University)

PARTICIPATION IN COMMITTEES/EXECUTIVE BOARDS

University of Cincinnati & other universities

2024 - Member, Appointment, Reappointment, Promotions and Tenure Committee, University of Cincinnati
2022 - 2024 Faculty Advisory Committee, Cincinnati Early-Career Cardiovascular Researchers (ECVR) Network
2020 – 2021 Member, Lewis Katz School of Medicine at Temple University Post-doc office (Faculty committee assigned with the responsibility to organize activities that will enhance the value of post-doctoral training experience)
2019 - 2021 Secretary, Medical Faculty Senate, Lewis Katz School of Medicine at Temple University
2018 – 2021 Small animal users committee (Temple University School of Medicine)
2018 – 2020 Electronic Communications Committee, Medical Faculty Senate, Lewis Katz School of Medicine
2018 – 2020 Representative Lewis Katz School of Medicine senator for the University Faculty Senate
2015 – 2021 MD-PhD program advisory committee (Temple University School of Medicine)
2001 - 2002 Member of the executive board of the Graduate Students committee (Graduate Program in Molecular Biology-Biomedicine, University of Crete)

Scientific Societies & Foundations

2025 – Today Member, Scientific Advisory Board (SAB) for the Cardiovascular Repository for Type 1 Diabetes (CaRe-T1D), NHLBI & NIDDK, NIH
7/2025-7/2027 Chair Elect, Mechanisms of Cardiometabolic Disorders Committee of the Council on Basic Cardiovascular Sciences, American Heart Association
2024– Today Member of the Biosciences Division of the National Council for Research, Technology and Innovation, Ministry of Development, Greece
2021 - 2022 Chair-elect, International Society for Heart Research-North American Section, Mid-Career Investigators Committee
2019 – 2020 International Society for Heart Research-North American Section, Mid-Career Investigators Committee
2019 – Today ARISTEiA-Institute for the Advancement of Research & Education in Arts, Sciences & Technology (2019-2023: Founder & Vice-President; 2024-2028: President)
2018 – 2023 AHA-BCVS, Membership and Communications Committee (selection of FAHA members of the BCVS)
2014 – 2018 AHA-BCVS Early Career Committee Member
2012 – 2019 Lindau Nobel Laureate Meeting (Physiology/Medicine): Member of the selection committee (Alexander Onassis Foundation).
2005 – 2010 Hellenic Bio-scientific Association in the USA (**Founder and President** of the Board of Directors - 2005-2010, ~500 members)
2010 – 2014 World Hellenic Biomedical Association (**President-elect and President** of the Executive Board – 2012-2014, ~3,000 members in 40 countries)

Conference Organizing Committees

2026 Co-chair: 3rd Olympiad in Cardiovascular Medicine (Masonic Medical Research Institute; April 30-May 3, 2026; Kalamata-Greece)
2025 Community Lead for the BCVS Communities (Cardiac Development, Structure and Function, Molecular & Cellular Science, Regenerative Science) of the Planning Committee on American Heart Association Scientific Sessions
2024 Co-Chair, Organizing Committee, Dawn of the Precision Medicine Era: Druggable and undruggable KLF/SP factors, phosphatases, and other signaling effectors in human disease (October 19-22, 2024; Delphi, Greece)
2022 – 2024 Member, Planning Committee on American Heart Association Scientific Sessions Program
2022 - Today Chair of the Organizing Committee (Interdisciplinary School for Environmental Crisis, December 17-22, 2022, Loutra Edipsou, Evia, Greece)
2022 Member of Scientific Program Committee (International Society for Heart Research, XXIV World Congress, June 12-15, 2022, Berlin, Germany
2022 Co-chair: 2nd Olympiad in Cardiovascular Medicine (Masonic Medical Research Institute; April 27-30, 2022; Heraklion, Crete-Greece)

2012 - 2021 Coordinator & member of the organizing committee of the International Summer School in Medical & Biosciences Research and Management of the World Hellenic Biomedical Association, Greece

Oct 2018 Co-chair: 6th International Conference on Biology and Pathobiology of KLF/Sp Transcription Factors, Kyoto, Japan

May 2018 Co-chair: 1st Olympiad in Cardiovascular Medicine (World Hellenic Biomedical Association & Hellenic Society for Heart Failure Research; May 17-19, 2018; Athens-Greece)

Aug 2016 Member of the organizing committee of the FASEB Science Research Conference on KLF and SP transcription factors in Disease and Regenerative Medicine.

Feb 2013 Member of the organizing committee of the 1st World Hellenic Biomedical Association symposium in Clinical & Translational Medicine, University of Ioannina, Greece

Nov 2012 Coordinator of the organizing committee of the Cardiometabolic Session in the 10th World Hellenic Biomedical Congress organized by the World Hellenic Biomedical Association and the University of Nicosia, Cyprus

Mar 2012 Member of the organizing committee of **joint symposium:** *American College of Cardiology, World Hellenic Biomedical Association, Hellenic Cardiological Society & Cyprus Society of Cardiology;* "Mediterranean Diet & its Protective effect on Cardiovascular Disease", Chicago, USA

Nov 2011 Member of the organizing committee of the **International Lunch Forum** of the WHBA and the Hellenic Cardiological Society at the American Heart Association Scientific Sessions Orlando, FL, USA

Oct 2011 Coordinator of the organizing committee of the **2nd conference** of the Hellenic Bioscientific Association in the USA "Moving from basic to translational research via novel technologies", New York, NY, USA

Nov 2010 Member of the organizing committee of the **scientific symposium** at "Contemporary Concepts in Cardiology" co-organized by the World Hellenic Biomedical Association and the University of Chicago Pritzker School of Medicine; Chicago, IL, USA

Oct 2009 Member of the organizing committee of the **Multidisciplinary Workshop in Biomedical Sciences** organized by the Hellenic Bioscientific Association in the USA, Boston MA, USA

Sep 2009 Member of the organizing committee of the **3rd International meeting** of the Global Hellenic Medical & Biosciences Network organized under the auspices of the Ministry of Health and Social Solidarity of the Hellenic Republic, Lagonissi, Greece

May 2009 Greek **Biotech Mission** event, Boston MA, Associate member of the organizing committee

Sep 2008 Member of the organizing committee and fundraising coordinator of the **scientific session on Metabolic Syndrome;** International meeting of the World Hellenic Biomedical Association, Paphos, Cyprus (under the auspices of the Ministry of Health of the Republic of Cyprus)

Apr 2006 Member of the Organizing Committee of the **scientific conference** meeting entitled **"**The role of Biosciences in the 21st century" Hellenic Association of Bio-scientists, Athens, Greece

Editorial Boards

2018 – Today Editorial Board member, Journal of Molecular & Cellular Cardiology

2018 – Today Associate Editor, Hellenic Journal of Cardiology

REVIEWING ACTIVITY

Grant reviews

2024 - American Heart Association-Transformational Project Awards (USA)
Pilot and Feasibility Program, Institute of Diabetes, Obesity, and Metabolism at the University of Minnesota (USA)

2023 **-** Therapeutic Development and Preclinical Studies [TDPS] study section/Respiratory, Cardiac and Circulatory System (RCCS) Branch, NIH (USA)
- American Heart Association-Transformational Project Awards (USA)
- Diabetes UK (UK)

2022 **-** American Heart Association-Career Development awards (USA)
- Medical Research Council, United Kingdom Research and Innovation (UK)

2021 American Heart Association- Pre- and Post-doctoral Fellowships (USA)

2020 Institute for International Education, Greek Diaspora Fellowship Program (USA)

2017 Einstein Stiftung Berlin (Einstein Foundation Berlin, Germany)

2017 Nora Eccles Treadwell Foundation (USA)

2018 Alzheimer's Association (USA)

Academic & Research Units' reviews

2025 **Member of the Selection Committee** for the Director of the Institute for Molecular Biology and Biotechnology, Foundation of Research and Technology Hellas, Greece

2021 **Member of the Accreditation Panel** of the Department of Pharmacy, Aristotle University of Thessaloniki, Greece (Accreditation is organized by the National Committee for Higher Education of Greece)

Abstract reviews

2022 – Today **Abstract reviewer**, International Society for Heart Research
2015 - Today **Abstract reviewer**, American Heart Association
Oct 2014 **Poster session judge** (Mid-Atlantic Pharmacology Society annual meeting)

Editorial referee

2008 – Today Editorial referee in: European Heart Journal, Circulation, Cell Metabolism, Circulation Research, Journal of Clinical Investigation, PLOS Genetics, JACC-BTS, Clinical & Translational Medicine, PLOS Biology, Nature Cardiovascular Research, Nature Communications, Theranostics, Nature Scientific Reports, Nature Reviews Cardiology, Cardiovascular Research, American Journal of Physiology-Heart & Circulatory Physiology, Journal of Lipid Research, PLOS One, Biochimica et Biophysica Acta, ESC Heart Failure, Laboratory Investigation, European Journal of Pharmacology, Journal of Cardiovascular Pharmacology, Biochemical Pharmacology, Biochemistry, Molecular Metabolism, Cell & Tissue Research, Molecular and Cellular Biochemistry, Journal of Lipids, Molecules, Toxicological Sciences, Mediators of Inflammation, Cardiovascular Therapeutics

PROFESSIONAL & SCIENTIFIC SOCIETIES

Sigma Xi, The Scientific Research Honor Society
American Heart Association
International Society for Heart Research
American Society for Biochemistry and Molecular Biology
Shock Society
Society for Redox Biology and Medicine
Hellenic Bio-scientific Association in the USA (**Founder and President** of the Board of Directors in 2005-2010, ~500 members)
World Hellenic Biomedical Association (**President** of the Executive Board – 2012-2014, ~3,000 members in 40 countries)
Panhellenic Association of Bioscientists, Greece

REFERENCES

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