

Ακαδημαϊκό προσωπικό - Βιογραφικό σημείωμα

Πανεπιστήμιο:	UNIC Athens
Επίθετο:	Καραρήγας
Όνομα:	Γιώργος
Βαθμίδα/Θέση:	Καθηγητής
Σχολή:	Ιατρική Σχολή
Τμήμα:	Βασικών και Κλινικών Επιστημών
Επιστημονικό Πεδίο: *	Φυσιολογία

* Εξειδίκευση

ΑΚΑΔΗΜΑΪΚΕΣ ΘΕΣΕΙΣ & ΕΚΠΑΙΔΕΥΣΗ

Οκτ '25-σήμερα	Καθηγητής, Τμήμα Βασικών και Κλινικών Επιστημών, Ιατρική Σχολή, UNIC Athens, Αθήνα, Ελλάδα «Φυσιολογία»
Οκτ '20-Σεπ '25	Καθηγητής, Τμήμα Φυσιολογίας, Ιατρική Σχολή, Πανεπιστήμιο Ισλανδίας, Ρέικιαβικ, Ισλανδία «Καρδιαγγειακή Φυσιολογία»
Απρ '19-σήμερα	Επισκέπτης Καθηγητής, Σχολή Επιστημών Υγείας Βρανδεμβούργου, Γερμανία «Βιοδείκτες ειδικοί ως προς το φύλο στη στεφανιαία νόσο»
Νοεμ '15-Δεκ '19	Καθηγητής DZHK, Ινστιτούτο Ιατρικής του Φύλου, Πανεπιστημιακό Νοσοκομείο Charité, Βερολίνο, Γερμανία «Μεταφραστική έρευνα φύλου με έμφαση στην καρδιακή ανεπάρκεια»
Ιαν '13-Οκτ '15	Ερευνητής, Ινστιτούτο Ιατρικής του Φύλου, Πανεπιστημιακό Νοσοκομείο Charité, Βερολίνο, Γερμανία «Διαφορές φύλου στις ρυθμιστικές οδούς της καρδιακής νόσου»
Ιουλ '09-Δεκ '12	Μεταδιδακτορικός Ερευνητής, Κέντρο Καρδιαγγειακής Έρευνας, Πανεπιστημιακό Νοσοκομείο Charité, Βερολίνο, Γερμανία «Επιδράσεις της 17β-οιστραδιόλης και των υποδοχέων της στην καρδιακή φυσιολογία και παθοφυσιολογία»
Φεβ '06-Ιουν '09	Διδακτορική Διατριβή: «Γονιδιωματική χαρτογράφηση ανθρώπινων καρδιακών ιστών μετά από θεραπεία με οιστρογόνα», Πανεπιστήμιο Humboldt Βερολίνου, Γερμανία (Marie Curie Fellowship for Early Stage Research Training)
Αυγ '05-Δεκ '05	Επιστημονικός Συνεργάτης, Hispalense Centre of Assisted Reproduction, Σεβίλλη, Ισπανία «Στεροειδή και δεκτικότητα του ενδομητρίου»
Ιουν '04-Μάιος '05	Επιστημονικός Συνεργάτης, Εργαστήριο Ανδालουσίας για την Κυτταρική Θεραπεία του Σακχαρώδη Διαβήτη, Σεβίλλη, Ισπανία «Ρυθμιστικοί μηχανισμοί που διέπουν τη διαφοροποίηση βλαστοκυττάρων»
Μάιος '03-Μάιος '04	Βοηθός Έρευνας, Κέντρο Αναπαραγωγής, Ενδοκρινολογίας & Διαβήτη, King's College London, Λονδίνο, Ηνωμένο Βασίλειο «Διαφοροποίηση ανθρώπινων εμβρυϊκών βλαστοκυττάρων σε παγκρεατικά β-κύτταρα»
Οκτ '02-Μάιος '03	Διδακτορικό (δεν ολοκληρώθηκε), Medical Research Council Centre for Developmental Neurobiology, King's College London, University of London, Ηνωμένο Βασίλειο Σημ.: Η χρηματοδότηση ανακλήθηκε, καθώς ο κύριος ερευνητής μετακινήθηκε σε νέα θέση.
Σεπ '01-Σεπ '02	M.Sc. Μοριακή Ιατρική, University College London, University of London, Ηνωμένο Βασίλειο

ΒΡΑΒΕΙΑ, ΔΙΑΚΡΙΞΕΙΣ & ΥΠΟΤΡΟΦΙΕΣ

Οκτ '26	Ranked among the world's top 2% of scientists; Stanford University & Elsevier
Νοεμ '16	Best of American Heart Association (AHA) Specialty Conferences at Scientific Sessions 2016 για την περίληψη "Role of the 17β-estradiol/β-catenin axis in heart failure"
Νοεμ '16	Υποτροφία κινητικότητας "Kongress- und Vortragsreisenprogramm"; German Academic Exchange Service (DAAD)
Απρ '16	American Association of Anatomists Annual Meeting Platform Award Finalist & Travel Award; American Association of Anatomists
Απρ '15	American Association of Anatomists Annual Meeting Platform Award Finalist & Travel Award; American Association of Anatomists
Νοεμ '14	American Heart Association (AHA) BCVS Abstract Travel Award
Απρ '14	International Early Career Physiologist Travel Award; The American Physiological Society
Απρ '13	Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award for Meritorious Research; The American Physiological Society
Απρ '13	Υποτροφία κινητικότητας "Kongress- und Vortragsreisenprogramm"; German Academic Exchange Service (DAAD)
Ιουν '12	Organization for the Study of Sex Differences (OSSD) 2012 New Investigator Symposium Award
Νοεμ '11	American Heart Association (AHA) Council on Basic Cardiovascular Sciences (BCVS) International Travel Award
Σεπ '11	Υποτροφία για το 2011 European Summer Institute in Statistical Genetics; University of Washington, Seattle, WA, USA
Μαρ '11	Υποτροφία κινητικότητας για το German Society of Endocrinology (DGE) 2011 Congress; German Society of Endocrinology
Νοεμ '10	Best of American Heart Association (AHA) Specialty Conferences at Scientific Sessions 2010 για την περίληψη "Estrogen-Triggered Sexually-Dimorphic Regulation of Human Cardiac Gene Expression"
Ιουλ '10	Travel Award for the European Society of Cardiology (ESC) Frontiers in Cardiovascular Biology (FCVB) 2010 Congress; EUGeneHeart Consortium (EU: LSHM-CT-2005-018833)
Οκτ '02-Μάιος '03	Μεταπτυχιακή Υποτροφία· Αχιλλοπούλειο Ίδρυμα, Αθήνα, Ελλάδα

ΕΚΔΟΤΙΚΗ & ΚΡΙΤΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ

Αναπληρωτής Εκδότης

Biology of Sex Differences (May '18-Feb '21)

Frontiers in Cardiovascular Medicine (Apr '20-Sep '22)

Frontiers in Endocrinology (Jul '18-Dec '19)

Συντακτική επιτροπή

American Journal of Physiology - Heart and Circulatory Physiology (Dec '23-onward)

Biology of Sex Differences (Mar '21-onward)

Ad hoc Κριτής σε επιστημονικά περιοδικά (επιλεγμένα)

American Journal of Physiology - Heart and Circulatory Physiology

Arteriosclerosis, Thrombosis, and Vascular Biology

Biology of Sex Differences

BMC Biotechnology

BMJ Medicine

British Journal of Pharmacology

Cardiovascular Research

Circulation
Circulation: Cardiovascular Genetics/Circulation: Genomic and Precision Medicine
Clinical Science
European Heart Journal
Hypertension
International Journal of Cardiology
International Journal of Molecular Sciences
JACC: Basic to Translational Science
JACC: Cardiovascular Imaging
Journal of Molecular and Cellular Cardiology
Journal of the American Heart Association (JAHA)
Life Sciences
npj Regenerative Medicine
Oxidative Medicine and Cellular Longevity
Redox Biology
Science Signaling
The FASEB Journal

ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΠΙΤΡΟΠΕΣ, ΔΙΚΤΥΩΣΗ ΚΑΙ ΚΟΙΝΩΝΙΚΗ/ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΠΡΟΣΦΟΡΑ

Οκτ '25–σήμερα COST Action CardioPharmaGENET CA24165, Ρόλος: Συντονιστής Training School
Μάιος '24–σήμερα Nominations Committee, Cardiovascular Section, American Physiological Society (APS), Ρόλος: Μέλος Επιτροπής
Οκτ '23–σήμερα COST Action EU-METAHEART CA22169, Ρόλος: Συντονιστής Training School
Νοε '22–σήμερα COST Action AtheroNET CA21153, Ρόλος: Συντονιστής Επιστημονικής Επικοινωνίας
Νοε '22–σήμερα COST Action ENOTTA CA21147, Ρόλος: Επικεφαλής WG5 «Διάχυση & βιωσιμότητα»
2022 Επιτροπή Επιλογής για θέση Επίκουρου Καθηγητή, Ιατρική Σχολή, School of Health Sciences, University of Iceland, Ρόλος: Μέλος Επιτροπής
Ιουλ '20–Ιουν '23 Επιτροπή Ισότητας, School of Health Sciences, University of Iceland, Ρόλος: Μέλος Επιτροπής
Μάιος '19–Δεκ '22 Επιτροπή Συνεδρίων της American Physiological Society (APS), Ρόλος: Μέλος Επιτροπής
Μαρ '17–Δεκ '18 Επιτροπή Ακαδημαϊκών Επιχορηγήσεων, Πανεπιστημιακό Νοσοκομείο Charité (Kommission für Nachwuchsförderung), Ρόλος: Μέλος Επιτροπής
Μάιος '17– Μάιος '18 Κεντρική Εφορευτική Επιτροπή, Πανεπιστημιακό Νοσοκομείο Charité (Zentraler Wahlvorstand), Ρόλος: Μέλος Επιτροπής
Νοε '15–Δεκ '19 Επιτροπή Καθηγητών του German Centre for Cardiovascular Research (DZHK), Ρόλος: Μέλος Επιτροπής
Οκτ '15–Δεκ '18 Επιτροπή Εκπαίδευσης της American Physiological Society (APS), Ρόλος: Μέλος Επιτροπής
Ιουν '13–Οκτ '15 Επιτροπή Young-DZHK του German Centre for Cardiovascular Research (DZHK), Ρόλος: Μέλος Επιτροπής
Φεβ '06–Φεβ '09 Επιτροπή Υποτρόφων Marie Curie του CARDIOVASC Early Stage Research Training Network, Πανεπιστημιακό Νοσοκομείο Charité, Ρόλος: Πρόεδρος

ΔΗΜΟΣΙΕΥΣΕΙΣ ΜΕ ΣΥΣΤΗΜΑ ΚΡΙΤΗ

Kontogianni G, Kouzis P, Gogas H, Rumano M, Mulleman D, Verginis P, Kararigas G*, Alissafi T. Biological sex defines regulatory T-cell reprogramming trajectories in immune-related adverse events and autoimmunity. *Biol Sex Differ* 2026; Accepted. *Co-Corresponding/Senior author

Tachkov K, Rumano M, Bluett J, Bogavac-Stanojević N, Dreesen E, Itik M, Kararigas G, Kawalec P, Santos M, Skrede S, Petrova G, Mulleman D. European Network on Optimizing Treatment With Therapeutic Antibodies in Chronic Inflammatory Diseases: Overview, Progress and Perspectives. *Clin Transl Sci* 2026;19(6):e70643

Halldórsson KB, Karagianni K, Leite-Moreira AF, Dafou D, Falcão-Pires I, Kararigas G. Myocardial expression of ADGRL4 and AQP7 is related to regression of left ventricular hypertrophy after aortic valve replacement in a sex-dependent manner. *Am J Physiol Heart Circ Physiol* 2026;331(1):H1-H10

Fairweather D, Kararigas G. Importance of integrating biological sex and age analyses in health research. *Biol Sex Differ* 2026;17(1):84

Halland H, Vitorino R, Gerdt E, Midtbø H, Meyer K, Kararigas G. Sex-biased plasma inflammatory protein profile in obesity. *Sci Rep* 2026;16(1):14249

Petrova G, Tachkov K, Kararigas G, Itik M, Drakalska E, Mulleman D. Statement on education and scientific research in the field of therapeutic drug monitoring by the COST Action ENOTTA CA21147. *Pharmacia* 2026;73:1-4

Cunningham RL, Galea LAM, Goulmamine S, Kararigas G, Schubert KG, Zuloaga KL, Ahmed SB. Advancing evidence-based regulation: Organization for the Study of Sex Differences and Society for Women's Health Research support FDA action on menopausal hormone therapy and encourage broader sex-informed drug label updates. *Biol Sex Differ* 2026;17(1):30

Giannousi E, Georgiadou C, Vlachogiannis NI, Kassi E, Aggeli IK, Sfrikakis PP, Tentolouris N, Protogerou AD, Kararigas G*, Chatzigeorgiou A. Stabilin-1 levels are related to dysregulated lipid metabolism and atherosclerotic plaque burden. *Am J Physiol Heart Circ Physiol* 2025;329(6):H1738-H1744.
*Co-Corresponding/Senior author

Ben-Aicha S, Srivastava P, Kararigas G, Devaux Y, Emanuelli C, Sopic M. Harnessing multiomics technologies and machine learning for advancing personalized theranostic approaches in atherosclerosis. *Pharmacol Rev* 2025;77(6):100091

Gerdt E, Novella S, Devaux Y, Magni P, Marti HP, Sopic M, Kararigas G. Biological sex and cardiovascular disease prevention in systemic arterial hypertension. *Arterioscler Thromb Vasc Biol* 2025;45(11):1973-1982

Mitić T, Georgescu A, Alexandru-Moise N, Davies MJ, Vindis C, Novella S, Gerdt E, Kararigas G, Wettinger SB, Formosa MM, Kwak BR, Molica F, Amigo N, Caporali A, de la Cuesta F, Hall IF, Chroni A, Martelli F, Schmid JA, Magni P, Kardassis D; COST Action AtheroNET (CA21153). Current status and challenges of multi-omics research using animal models of atherosclerosis. *J Mol Cell Cardiol Plus* 2025;13:100476

Novella S, Gerdt E, Kararigas G. Divergent mechanisms of cardiovascular remodeling between men and women. *Am J Physiol Heart Circ Physiol* 2025;329(2):H505-H514

Mericskay M, Zuurbier CJ, Heather LC, Karlstaedt A, Inserte J, Bertrand L, Kararigas G, Ruiz-Meana M, Maack C, Schiattarella GG. Cardiac intermediary metabolism in heart failure: substrate use, signalling roles and therapeutic targets. *Nat Rev Cardiol* 2025;22(10):704-727

McClements L, Kautzky-Willer A, Kararigas G, Ahmed SB, Stallone JN. The role of sex differences in cardiovascular, metabolic, and immune functions in health and disease: a review for "Sex Differences in Health Awareness Day". *Biol Sex Differ* 2025;16(1):33

Kararigas G, Ebeling MC, Le G, Lai S, Cui C, Cui Q, Lowe DA. Transcriptomic profiling reveals 17 β -estradiol represses ubiquitin-proteasomal mediators in skeletal muscle of ovariectomized mice. *J Cachexia Sarcopenia Muscle* 2025;16(1):e13698

de Gonzalo-Calvo D, Karaduzovic-Hadziabdic K, Torp Dalgaard L, Dieterich C, Perez-Pons M, Hatzigeorgiou A, Devaux Y, Kararigas G. Machine learning for catalysing the integration of noncoding RNA in research and clinical practice. *eBioMedicine* 2024;106:105247

Stamatiou R, Kararigas G. Participation of transgender and gender diverse persons in cardiovascular clinical trials. *Am Heart J Plus* 2024;44:100420

- Suvandjjeva V, Tsacheva I, Santos M, Kararigas G, Rashkov P. Modelling the Impact of NETosis During the Initial Stage of Systemic Lupus Erythematosus. *Bull Math Biol* 2024;86(6):66
- Vetter D, Amann J, Bruneault F, Coffee M, Düdder B, Gallucci A, Gilbert TK, Hagendorff T, van Halem I, Hickman E, Hildt E, Holm S, Kararigas G, Kringen P, Madai VI, Wiinblad ME, Tithi JJ, Westerlund M, Wurth R, Zicari RV, Z Inspection® initiative. Lessons Learned from Assessing Trustworthy AI in Practice. *DISO* 2023;2(3):35
- Angelov A, Connelly PJ, Delles C, Kararigas G. Sex-biased and sex hormone-dependent regulation of apolipoprotein A1. *Curr Opin Physiol* 2023;33:100654
- Spinetti G, Mutoli M, Greco S, Riccio F, Ben-Aicha S, Kenneweg F, Jusic A, de Gonzalo-Calvo D, Nossent AY, Novella S, Kararigas G, Thum T, Emanueli C, Devaux Y, Martelli F. Cardiovascular complications of diabetes: role of non-coding RNAs in the crosstalk between immune and cardiovascular systems. *Cardiovasc Diabetol* 2023;22(1):122
- Sopic M, Kararigas G, Devaux Y, Magni P. Call for participation in the AtheroNET COST Action to implement multiomics in atherosclerotic cardiovascular disease research. *Eur Heart J* 2023;44(24):2143-5
- García-Llorca A, Kararigas G. Sex-Related Effects of Gut Microbiota in Metabolic Syndrome-Related Diabetic Retinopathy. *Microorganisms* 2023;11(2):447
- Allahabadi H, Amann J, Balot I, Beretta A, Binkley C, Bozenhard J, Bruneault F, Brusseau J, Candemir S, Cappellini LA, Chakraborty S, Cherciu N, Cociancig C, Coffee M, Ek I, Espinosa-Leal L, Farina D, Fieux-Castagnet G, Frauenfelder T, Gallucci A, Giuliani G, Golda A, van Halem I, Hildt E, Holm S, Kararigas G, Krier SA, Kuhne U, Lizzi F, Madai VI, Markus AF, Masis S, Mathez EW, Mureddu F, Neri E, Osika W, Ozols M, Panigutti C, Parent B, Pratesi F, Moreno-Sanchez PA, Sartor G, Savardi M, Signoroni A, Sormunen HM, Spezzatti A, Srivastava A, Stephansen AF, Theng LB, Tithi JJ, Tuominen J, Umbrello S, Vaccher F, Vetter D, Westerlund M, Wurth R, Zicari RV. Assessing Trustworthy AI in Times of COVID-19: Deep Learning for Predicting a Multiregional Score Conveying the Degree of Lung Compromise in COVID-19 Patients. *IEEE Trans Technol Soc* 2022;3(4):272-289
- Horvath C, Kararigas G. Sex-Dependent Mechanisms of Cell Death Modalities in Cardiovascular Disease. *Can J Cardiol* 2022;38(12):1844-1853
- den Ruijter HM, Kararigas G. Estrogen and Cardiovascular Health. *Front Cardiovasc Med* 2022;9:886592
- Siokatas G, Papatheodorou I, Daiou A, Lazou A, Hatzistergos KE, Kararigas G. Sex-Related Effects on Cardiac Development and Disease. *J Cardiovasc Dev Dis* 2022;9(3):90
- Kalkhoran SB, Kararigas G. Oestrogenic Regulation of Mitochondrial Dynamics. *Int J Mol Sci* 2022;23(3):1118
- Li S, Kararigas G. Role of Biological Sex in the Cardiovascular-Gut Microbiome Axis. *Front Cardiovasc Med* 2022;8:759735
- Kararigas G. Sex-biased mechanisms of cardiovascular complications in COVID-19. *Physiol Rev* 2022;102(1):333-7
- Kararigas G. Oestrogenic contribution to sex-biased left ventricular remodelling: The male implication. *Int J Cardiol* 2021;343:83-4
- Zicari RV, Brusseau J, Blomberg SN, Christensen HC, Coffee M, Ganapini MB, Gerke S, Gilbert TK, Hickman E, Hildt E, Holm S, Kühne U, Madai VI, Osika W, Spezzatti A, Schnebel E, Tithi JJ, Vetter D, Westerlund M, Wurth R, Amann J, Antun V, Beretta V, Bruneault F, Campano E, Düdder B, Gallucci A, Goffi E, Haase CB, Hagendorff T, Kringen P, Möslin F, Ottenheimer D, Ozols M, Palazzani L, Petrin M, Tafur K, Tørresen J, Volland H, Kararigas G. On Assessing Trustworthy AI in Healthcare. Machine Learning as a Supportive Tool to Recognize Cardiac Arrest in Emergency Calls. *Front Hum Dyn* 2021;3:673104 (<https://doi.org/10.3389/fhumd.2021.673104>)
- Zicari RV, Brodersen J, Brusseau J, Düdder B, Eichhorn T, Ivanov T, Kararigas G, Kringen P, McCullough M, Möslin F, Mushtaq N, Roig G, Stürtz N, Tolle K, Tithi JJ, van Halem I, Westerlund W. Z-Inspection®: A Process to Assess Trustworthy AI. *IEEE Transactions on Technology and Society* 2021;2(2):83-97
- Garnier S, Harakalova M, Weiss S, Mokry M, Regitz-Zagrosek V, Hengstenberg C, Cappola TP, Isnard R, Arbustini E, Cook SA, van Setten J, Calis JJA, Hakonarson H, Morley MP, Stark K, Prasad SK, Li J, O'Regan DP, Grasso M, Müller-Nurasyid M, Meitinger T, Empana JP, Strauch K, Waldenberger M, Marguiles KB,

Seidman CE, Kararigas G, Meder B, Haas J, Boutouyrie P, Lacolley P, Jouven X, Erdmann J, Blankenberg S, Wichter T, Ruppert V, Tavazzi L, Dubourg O, Roizes G, Dorent R, de Groote P, Fauchier L, Trochu JN, Aupetit JF, Bilinska ZT, Germain M, Völker U, Hemerich D, Raji I, Bacq-Daian D, Proust C, Remior P, Gomez-Bueno M, Lehnert K, Maas R, Olaso R, Saripella GV, Felix SB, McGinn S, Duboscq-Bidot L, van Mil A, Besse C, Fontaine V, Blanché H, Ader F, Keating B, Curjol A, Boland A, Komajda M, Cambien F, Deleuze JF, Dörr M, Asselbergs FW, Villard E, Trégouët DA, Charron P. Genome-wide association analysis in dilated cardiomyopathy reveals two new players in systolic heart failure on chromosomes 3p25.1 and 22q11.23. *Eur Heart J* 2021;42(20):2000-11

Ritter O, Kararigas G. In Reply - COVID-19, the Female Immune Advantage, and Cardiovascular Impact. *Mayo Clin Proc* 2021;96(3):821-2

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. *Circ Res* 2021;128(3):335-57

Ritter O, Kararigas G. Sex-biased vulnerability of the heart to COVID-19. *Mayo Clin Proc* 2020;95(11):2332-5

Pei J, Harakalova M, Treibel TA, Lumbers RT, Boukens BJ, Efimov IR, van Dinter JT, González A, López B, El Azzouzi H, van den Dungen N, van Dijk CGM, Krebber MM, den Ruijter HM, Pasterkamp G, Duncker DJ, Nieuwenhuis EES, de Weger R, Huibers MM, Vink A, Moore JH, Moon JC, Verhaar MC, Kararigas G, Mokry M, Asselbergs FW, Cheng C. H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. *Clin Epigenetics* 2020;12(1):106

Sabbatini AR, Kararigas G. Estrogen-related mechanisms in sex differences of hypertension and target organ damage. *Biol Sex Differ* 2020;11:31

Lowe DA, Kararigas G. New insights into estrogen/estrogen receptor effects in the cardiac and skeletal muscle. *Front Endocrinol* 2020;11:141

Gaignebet L, Kańduła MJ, Lehmann D, Knosalla C, Kreil DP, Kararigas G. Sex-specific human cardiomyocyte gene regulation in left ventricular pressure overload. *Mayo Clin Proc* 2020;95(4):688-97

Sabbatini AR, Kararigas G. Menopause-related estrogen decrease and the pathogenesis of HFpEF: JACC review topic of the week. *J Am Coll Cardiol* 2020;75(9):1074-82

Ruiz-Meana M, Boengler K, Garcia-Dorado D, Hausenloy DJ, Kaambre T, Kararigas G, Perrino C, Schulz R, Ytrehus K. Ageing, sex and cardioprotection. *Br J Pharmacol* 2020;177(23):5270-86

Hein S, Hassel D, Kararigas G. The zebrafish (*Danio rerio*) is a relevant model for studying sex-specific effects of 17 β -estradiol in the adult heart. *Int J Mol Sci* 2019;20:6287

Altinbas L, Bormann N, Lehmann D, Jeuthe S, Wulsten D, Kornak U, Robinson PN, Wildemann B, Kararigas G. Assessment of bones deficient in fibrillin-1 microfibrils reveals pronounced sex differences. *Int J Mol Sci* 2019;20:6059

Bhushan R, Altinbas L, Jäger M, Zaradzki M, Lehmann D, Timmermann B, Clayton N, Zhu Y, Kallenbach K, Kararigas G, Robinson PN. An integrative systems approach identifies novel candidates in Marfan syndrome-related pathophysiology. *J Cell Mol Med* 2019;23(4):2526-35

Sanchez-Ruderisch H, Queirós AM, Fliegner D, Eschen C, Kararigas G*, Regitz-Zagrosek V. Sex-specific regulation of cardiac microRNAs targeting mitochondrial proteins in pressure overload. *Biol Sex Differ* 2019;10:8. *Corresponding author

Godoy JC, Niesman IR, Busija AR, Kassan A, Schilling JM, Schwarz A, Alvarez EA, Dalton ND, Drummond JC, Roth DM, Kararigas G, Patel HH, Zemljic-Harpe AE. Atorvastatin, but not pravastatin, inhibits cardiac Akt/mTOR signaling and disturbs mitochondrial ultrastructure in cardiac myocytes. *FASEB J* 2019;33(1):1209-25

Cui C, Huang C, Liu K, Xu G, Yang J, Zhou Y, Feng Y, Kararigas G, Geng B, Cui Q. Large-scale in-silico identification of drugs exerting sex-specific effects in the heart. *J Transl Med* 2018;16(1):236

Huang C, Yang W, Wang J, Zhou Y, Geng B, Kararigas G, Yang J, Cui Q. The DrugPattern tool for drug set enrichment analysis and its prediction for beneficial effects of oxLDL on type 2 diabetes. *J Genet Genomics* 2018;45(7):389-397

Octavia Y, Kararigas G*, de Boer M, Chrifi I, Kietadisorn R, Swinnen M, Duimel H, Verheyen FK, Brandt MM, Fliegner D, Cheng C, Janssens S, Duncker DJ, Moens AL. Folic acid reduces doxorubicin-induced cardiomyopathy by modulating endothelial nitric oxide synthase. *J Cell Mol Med* 2017;21(12):3277-87. *Shared first and corresponding author

Ventura-Clapier R, Dworatzek E, Seeland U, Kararigas G, Francois Arnal J, Brunelleschi S, Carpenter T, Erdmann J, Franconi F, Giannetta E, Glezerman M, Hofmann S, Junien C, Katai M, Kublickiene K, König IR, Majdic G, Malorni W, Mieth C, Miller V, Reynolds R, Shimokawa H, Tannenbaum C, Maria Anna DU, Regitz-Zagrosek V. Sex in basic research - Concepts in the cardiovascular field. *Cardiovasc Res* 2017;113(7):711-724

Esslinger U, Garnier S, Korniat A, Proust C, Kararigas G, Müller-Nurasyid M, Empana JP, Morley MP, Perret C, Stark K, Bick AG, Prasad SK, Kriebel J, Li J, Tired L, Strauch K, O'Regan DP, Marguiles KB, Seidman JG, Boutouyrie P, Lacolley P, Jouven X, Hengstenberg C, Komajda M, Hakonarson H, Isnard R, Arbustini E, Grallert H, Cook SA, Seidman CE, Regitz-Zagrosek V, Cappola TP, Charron P, Cambien F, Villard E. Exome-wide association study reveals novel susceptibility genes to sporadic dilated cardiomyopathy. *PLoS One* 2017;12(3):e0172995

Gaignebet L, Kararigas G. En route for precision medicine through the integration of sex into pharmacogenomics. *Clin Sci* 2017;131(4):329-342

Duft K, Schanz M, Pham H, Abdelwahab A, Schriever C, Kararigas G, Dworatzek E, Davidson MM, Regitz-Zagrosek V, Morano I, Mahmoodzadeh S. 17 β -Estradiol-induced interaction of estrogen receptor α and human atrial essential myosin light chain modulates cardiac contractile function. *Basic Res Cardiol* 2017;112(1):1

Li J, Ruffenach G, Kararigas G, Cunningham CM, Motayagheni N, Barakai N, Umar S, Regitz-Zagrosek V, Eghbali M. Intralipid protects the heart in late pregnancy against ischemia/reperfusion injury via Caveolin2/STAT3/GSK-3 β pathway. *J Mol Cell Cardiol* 2016;102:108-116

Regitz-Zagrosek V, Kararigas G. Mechanistic pathways of sex differences in cardiovascular disease. *Physiol Rev* 2017;97(1):1-37

Miller VM, Kararigas G, Seeland S, Regitz-Zagrosek V, Kublickiene K, Einstein G, Casanova R, Legato MJ. Integrating topics of sex and gender into medical curricula – lessons from the international community. *Biol Sex Differ* 2016;7(Suppl 1):44

Seeland U, Nauman AT, Cornelis A, Ludwig S, Dunkel M, Kararigas G, Regitz-Zagrosek V. eGender – from e-Learning to e-Research: a web-based interactive knowledge sharing platform for sex- and gender-specific medical education. *Biol Sex Differ* 2016;7(Suppl 1):39

Schubert C, Raparelli V, Westphal C, Dworatzek E, Petrov G, Kararigas G, Regitz-Zagrosek V. Reduction of apoptosis and preservation of mitochondrial integrity under ischemia/reperfusion injury is mediated by estrogen receptor β . *Biol Sex Differ* 2016;7:53

Kararigas G, Seeland U, Barcena de Arellano ML, Dworatzek E, Regitz-Zagrosek V. Why the study of the effects of biological sex is important. *Ann Ist Super Sanita* 2016;52(2):149-50

Lai S, Collins BC, Colson BA, Kararigas G, Lowe DA. Estradiol modulates myosin regulatory light chain phosphorylation and contractility in skeletal muscle of female mice. *Am J Physiol Endocrinol Metab* 2016;310(9):E724-33

Dworatzek E, Baczko I, Kararigas G. Effects of aging on cardiac extracellular matrix in men and women. *Proteomics Clin Appl* 2016;10(1):84-91

Kararigas G, Fliegner D, Forler S, Klein O, Schubert C, Klose J, Regitz-Zagrosek V. Comparative proteomic analysis reveals sex and estrogen receptor β effects in the pressure overloaded heart. *J Proteome Res* 2014;13(12):5829-36

Kararigas G, Dworatzek E, Petrov G, Summer H, Schulze TM, Baczko I, Knosalla C, Golz S, Hetzer R, Regitz-Zagrosek V. Sex-dependent regulation of fibrosis and inflammation in human left ventricular remodelling under pressure overload. *Eur J Heart Fail* 2014;16(11):1160-7

Petrov G, Dworatzek E, Schulze TM, Dandel M, Kararigas G, Mahmoodzadeh S, Hetzer R, Regitz-Zagrosek V. More favorable hypertrophy development in women with isolated aortic valve stenosis is associated with better reversibility and survival after valve replacement. *JACC Cardiovasc Imaging* 2014;7(11):1073-80

- Kararigas G, Nguyen BT, Zelarayan LC, Hassenpflug M, Toischer K, Sanchez-Ruderisch H, Hasenfuss G, Bergmann MW, Jarry H, Regitz-Zagrosek V. Genetic background defines the regulation of postnatal cardiac growth by 17 β -estradiol through a β -catenin mechanism. *Endocrinology* 2014;155(7):2667-76
- Dworatzek E, Mahmoodzadeh S, Schubert C, Westphal C, Leber J, Kusch A, Kararigas G, Fliegner D, Moulin M, Ventura-Clapier R, Gustafsson JA, Davidson MM, Dragun D, Regitz-Zagrosek V. Sex differences in exercise-induced physiological myocardial hypertrophy are modulated by oestrogen receptor beta. *Cardiovasc Res* 2014;102(3):418-28
- Kararigas G, Nguyen BT, Jarry H. Estrogen modulates cardiac growth through an estrogen receptor α -dependent mechanism in healthy ovariectomized mice. *Mol Cell Endocrinol* 2014;382(2):909-14
- Queirós AM, Eschen C, Fliegner D, Kararigas G, Dworatzek E, Westphal C, Sanchez Ruderisch H, Regitz-Zagrosek V. Sex- and estrogen-dependent regulation of a miRNA network in the healthy and hypertrophied heart. *Int J Cardiol* 2013;169:331-8
- Nguyen BT, Kararigas G, Jarry H. Dose-dependent effects of a genistein-enriched diet in the heart of ovariectomized mice. *Genes Nutr* 2013;8(4):383-90
- Mahmoodzadeh S, Pham TH, Kuehne A, Fielitz B, Dworatzek E, Kararigas G, Petrov G, Davidson MM, Regitz-Zagrosek V. 17 β -Estradiol-induced interaction of ER α with NPPA regulates gene expression in cardiomyocytes. *Cardiovasc Res* 2012;96(3):411-21
- Karlstaedt A, Fliegner D, Kararigas G, Ruderisch HS, Regitz-Zagrosek V, Holzhütter HG. CardioNet: A human metabolic network suited for the study of cardiomyocyte metabolism. *BMC Syst Biol* 2012;6(1):114
- Kararigas G, Bito V, Tinel H, Becher E, Baczko I, Knosalla C, Albrecht B, Sipido KR, Regitz-Zagrosek V. Transcriptome characterization of estrogen-treated human myocardium identifies myosin regulatory light chain interacting protein as a sex-specific element influencing contractile function. *J Am Coll Cardiol* 2012;59(4):410-7
- Nguyen BT, Kararigas G, Wuttke W, Jarry H. Long-term treatment of ovariectomized mice with estradiol or phytoestrogens as a new model to study the role of estrogenic substances in the heart. *Planta Med* 2012;78(1):6-11
- Kararigas G, Fliegner D, Gustafsson JA, Regitz-Zagrosek V. Role of the estrogen/estrogen-receptor-beta axis in the genomic response to pressure overload-induced hypertrophy. *Physiol Genomics* 2011;43(8):438-46
- Kararigas G, Becher E, Mahmoodzadeh S, Knosalla C, Hetzer R, Regitz-Zagrosek V. Sex-specific modification of progesterone receptor expression by 17 β -oestradiol in human cardiac tissues. *Biol Sex Differ* 2010;1(1):2
- Toischer K, Rokita AG, Unsöld B, Zhu W, Kararigas G, Sossalla S, Reuter SP, Becker A, Teucher N, Seidler T, Grebe C, Preuß L, Gupta SN, Schmidt K, Lehnart SE, Krüger M, Linke WA, Backs J, Regitz-Zagrosek V, Schäfer K, Field LJ, Maier LS, Hasenfuss G. Differential cardiac remodeling in preload versus afterload. *Circulation* 2010;122(10):993-1003
- Fliegner D, Schubert C, Penkalla A, Witt H, Kararigas G, Dworatzek E, Staub E, Martus P, Ruiz Noppinger P, Kintscher U, Gustafsson JA, Regitz-Zagrosek V. Female sex and estrogen receptor-beta attenuate cardiac remodeling and apoptosis in pressure overload. *Am J Physiol Regul Integr Comp Physiol* 2010;298(6):R1597-606

ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ

- Novella S, Kararigas G. Unveiling Sex-Biased Transcriptomic Mechanisms in Atherosclerosis. In: *Transcriptomics in Atherosclerosis*. Edited by: Devaux Y, Sopic M. Publisher: Elsevier Science. Year: 2025. Hardback ISBN: 9780443330643
- García-Llorca A, Kararigas G. Sex-biased mechanisms of metabolic syndrome-induced cardiovascular and retinal complications. In: *Sex and Gender Differences in Cardiovascular-Renal-Metabolic Physiology and Pathophysiology: Sex, Gender and Function*. Edited by: Reckelhoff J, Yanes Cardozo LL, Shawky N. Series: *Fundamentals of Physiology*. Publisher: Elsevier Science. Year: 2024. Hardback ISBN: 9780443222665. e-ISBN: 9780443222672

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Kararigas G in the capacity of Science Communication Coordinator for COST Action AtheroNET (CA21153). Understanding Heart Health: protect yourself from Atherosclerotic Cardiovascular Disease. Infographic for patients, patient organisations and the general population (2024)

Kararigas G in the capacity of Science Communication Coordinator for COST Action AtheroNET (CA21153). How Multiomics and Artificial Intelligence can change the future of heart disease care. Infographic for patients, patient organisations and the general population (2024)

Rodrigues Sabbatini A, Kararigas G. Role of biological sex in cardiovascular disease: the case of hypertension and related target organ damage. *Biochem (Lond)* 2017;39(1):18-21

Kindermann I, Kararigas G. Schlagen Frauenherzen anders? – Gendergerechte Versorgung am Beispiel der Herzinsuffizienz. *Am Puls* 2017;3:6-8