

PERSONAL DATA

Name Antonios Chatzigeorgiou
Date and place of birth: 25.02.1982, Athens, Greece
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Current position(s) Professor of Experimental and Clinical Physiology, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece
Visiting Professor, Roger Williams Institute of Liver Studies, King's College London, UK
Website <https://physiology.med.uoa.gr/en/research-infrastructure-services/research-laboratories/xatzigeorgiou-antonis/>

EDUCATION

2025 **Board-certified Medical Specialty in Endocrinology, Diabetes and Metabolism**, Panhellenic Medical Association, Athens, Greece
2019 **Board-certified Medical Specialty in Laboratory Medicine**, Medical Association of Saxony, Germany
2009 **PhD**, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Greece
2009 **MD**, School of Medicine, National and Kapodistrian University of Athens, Greece
2004 **BSc in Biology**, National and Kapodistrian University of Athens, Greece

RESEARCH AND PROFESSIONAL EXPERIENCE IN SCIENTIFIC POSITIONS

As of 3/2026 Visiting Professor, Roger Williams Institute of Liver Studies, King's College London, UK
As of 2/2026 Full Professor, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Greece
2022-2026 Associate Professor, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Greece
2018 – 2022 Assistant Professor, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Greece
2013 – 2018 Senior Postdoctoral Fellow / Research Associate, Institute for Clinical Chemistry and Laboratory Medicine, Medical Faculty, University Dresden, Germany
2013 – 2018 Medical Resident in Laboratory Medicine, University Clinic, University Dresden, Germany
2011 - 2013 Postdoctoral Fellow, Department of Internal Medicine III and Institute of Physiology, Medical Faculty, University Dresden, Germany
11/2009 - 11/2010 *Pause in Scientific Activities due to Compulsory Military Service in Greece*
2005 - 2009 PhD student (2005-2009), Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece.
2003-2004 Diploma Thesis student (for BSc in Biology), Dept. of Exp. Physiology, School of Medicine, National & Kapodistrian University of Athens

TEACHING / SUPERVISING EXPERIENCE

2018-present Lecturer and Research Supervisor in the following MSc programs of the National & Kapodistrian University of Athens, Greece: 1. Molecular Biomedicine, 2. Molecular and Applied Physiology, 3. Physiology of Senescence, 4. Clinical Neurophysiology, 5. Cardiometabolic Medicine, 6. Applications of Biology in Medicine

2018-present	<u>Supervision of 3 postdoctoral fellows, 6 PhD students as well as 7 MSc students</u> in the Department of Exp. Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece
2013-2018	<u>Co-supervision of 3 PhD students</u> in the Institute for Clinical Chemistry and Laboratory Medicine, Medical Faculty, University Dresden
2012-2014	<u>Lecturer in the PhD/MD program</u> , “Molecular Endocrinology” as well as in the PhD program “Endothelium in Health and Disease” (Medical Faculty, University Dresden, Germany)

AWARDS / HONORS

1. Fulbright Scholarship for Visiting Researchers / Faculty members to conduct research entitled “Exploring Novel Therapeutic Approaches Against Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD) and Liver Fibrosis Utilizing Human Liver Organoids” at the University of Massachusetts Chan Medical School (2 / 2026 – 5 / 2026) <https://www.fulbright.gr/en/grantees/greek-grantees-profiles/fulbright-visiting-scholar-program>
2. Fondation Sante scholarships 2025 and 2023 (The Sidney Altman Scholarship Program) to two PhD students of the Chatzigeorgiou team (<https://fondationsante.org/research-support/graduate-student-stipends/scholarship-recipients/>)
3. Early-stage Faculty Prize 2024 of the International Union of Physiological Societies (IUPS)
4. Young Investigator Award in the field of Molecular Medicine 2020, International Journal of Molecular Science
5. Young Investigator Research Award Program 2019 of the European Foundation for the Study of Diabetes
6. Research Award 2019 of the Athens Medical Society (Greece) in the category ‘Basic Research’
7. Herrmann Rein Award 2018 (2nd position) of the German Society for Microcirculation and Vascular Biology
8. Young Investigator Award 2015 (Ivar Trautshold Award), German Society for Clinical Chemistry and Laboratory Medicine (DGKL)
9. Young Investigator Award 2014 (G. Schettler Award), German Atherosclerosis Society (DGAF)
10. Research Award 2013 of the German Centre for Diabetes Research (DZD)
11. Young Investigator Award 2013, European Society of Endocrinology
12. Basic science meeting grant, European Congress of Endocrinology 2013
13. The paper with title ‘A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity’ by Chatzigeorgiou*, Chung*et al (Nat. Immunol 2017) was presented as research highlight in Nature Reviews Endocrinology (April 2017) under the title ‘Macrophage retention inhibits beige adipogenesis in obesity’ (*equal first authors)
14. The paper 'Blocking CD40-TRAF6 signaling is a therapeutic target in obesity-associated insulin resistance' by Chatzigeorgiou et al (PNAS 2014) was presented as research highlight in Nature Reviews Drug Discovery (April 2014) under the title ‘Diabetic interactions broken up’

COMMISSIONS OF TRUST

Ad hoc Reviewer for several funding bodies including Swiss National Science Foundation, Institute Pasteur Incentive Research Programs & Partnerships Foundation, German Israeli Foundation for Research and Development, Austrian Research Fund, Medical Research Council (UKRI), Worldwide Cancer Research, etc.

Ad hoc Reviewer for over 70 journals including Advanced Science, Aging Cell, Am.J.Physiol.End.Metab., JCI Insight, FASEB J, Hepatology, J. Pathol., iScience, Diabetologia, Front. Immunol, Cell. Mol. Life Sciences, Trends in Endocrinology and Metabolism, Journal of Cachexia, Sarcopenia and Muscle, Metabolism, Eur. J. Clin. Inv. etc.

FUNDING AS PRINCIPAL INVESTIGATOR

Funding Body	Title of project	Role	Time
MeDDrive-Start Grant - Medical Faculty of University Dresden, Germany	The role of CD28 in obesity-related insulin resistance	PI	2015-2016
German Research Foundation (DFG)	Crosstalk between Foxp3+ Tregs and Type 2 Immunity in Maintaining Adipose Tissue Homeostasis	PI	2017-2020
German Research Foundation (DFG)	Co-stimulatory interactions in the development of Non-Alcoholic Steatohepatitis and Liver Fibrosis	PI	2018-2021
Hellenic Association for the Study of Liver (HASL)	Epigenetic regulation of NAFLD-related senescence	PI	2019-2021
European Foundation for the Study of Diabetes (EFSO)	Immune regulation of cardiometabolic disease in obesity-induced diabetes	PI	2019-2021
Hellenic Foundation for Research and Innovation (HFRI)	Robo4 as regulator and biomarker of obesity-related adipose tissue dysfunction and insulin resistance	PI	2020-2023
Hellenic Foundation for Research and Innovation (HFRI)	Immunometabolic regulation of hematopoietic stem cell niche in myelodysplasia and ageing	Co-PI	2020-2023
Taconic Biosciences Academic Grant Program	In vivo imaging for non-invasive characterization of NAFLD/NASH progression	PI	2021-2022
Hellenic Foundation for Research and Innovation (HFRI) – <i>grant for postdocs</i>	Exploring the role of Hes3 in the transition from NAFLD to NASH and hepatocellular carcinoma (HCC)	Supervisor	2022-2024
Hellenic Association for the Study of Liver (HASL)	Spatiotemporal analysis of the hepatic senescent and immune populations in NAFLD-related HCC	PI	2023-2025
Hellenic Foundation for Research and Innovation (HFRI)	Dissecting the role of endothelium as regulator and predictor of diabetes-related heart failure	PI	2024-2025
Hellenic Association for the Study of Liver (HASL)	Distribution and scoring of MASLD-related SNPs in MASLD individuals with normal vs increased BMI	Co-PI	2026-2027

PUBLICATIONS

A. OVERVIEW

Total number of publications in Pubmed: 104

H-index (Scopus / Google Scholar): 37 / 42

Citations (Scopus / Google Scholar): 5.678 / 7.940

B. MOST IMPORTANT ORIGINAL ARTICLES (with reverse chronological order)

1. Giannousi E, Georgiadou C, Vlachogiannis NI, Kassi E, Aggeli IK, Sfikakis 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 Dec 1;329(6):H1738-H1744.

2. Chung KJ, **Chatzigeorgiou A**, Lim JH, Li X, Marava I, Kim DY, Witt A, Gebler J, Grossklaus S, Gercken B, Kopaliani I, Subramanian P, Blüher M, Bdeir K, Alexaki VI, Hajishengallis G, Chavakis T.

A DEL-1/ α v β 3 integrin axis promotes brown adipocyte progenitor proliferation and cold-induced brown adipose tissue adaptation. **Mol Metab.** 2025 Aug 7;100:102229. doi: 10.1016/j.molmet.2025.102229.

3. Katsarou A, Papadopoulos G, Moustakas II, Papadopetraki A, Moustogiannis A, Legaki AI, Giannousi E, Agriou G, Pantelis P, Veroutis D, Evangelou K, Kotsinas A, Gorgoulis VG, Philippou A, Koutsilieris M, **Chatzigeorgiou A**.

Exercise mitigates liver senescence but does not outmatch dietary restriction in obesity-related MASLD.

Metabolism. 2025 Sep;170:156325.

4. Vlachogiannis NI, Legaki AI, Kassi E, Mikelis CM, Tentolouris N, Sfrikakis PP, Protogerou AD, **Chatzigeorgiou A**.

Association of Circulating Robo4 with Obesity, Hypertension and Atherosclerotic Plaque Burden.

Thromb Haemost. 2025 Aug;125(8):817-820.

5. Hadjihambi A, Velliou RI, Tsialios P, Legaki AI, **Chatzigeorgiou A***, Rouchota MG*.

Novel In Vivo Micro-Computed Tomography Imaging Techniques for Assessing the Progression of Non-Alcoholic Fatty Liver Disease.

J Vis Exp. 2023 Mar 24;(193). *equal last authors

6. Papadopoulos G, Legaki AI, Georgila K, Vorkas P, Giannousi E, Stamatakis G, Moustakas II, Petrocheilou M, Pyrina I, Gercken B, Kassi E, Chavakis T, Pateras IS, Panayotou G, Gika H, Samiotaki M, Eliopoulos AG, **Chatzigeorgiou A**.

Integrated omics analysis for characterization of the contribution of high fructose corn syrup to non-alcoholic fatty liver disease in obesity.

Metabolism. 2023 Jul;144:155552.

7. Chung KJ, Legaki AI, Papadopoulos G, Gercken B, Gebler J, Schwabe RF, Chavakis T, **Chatzigeorgiou A**.

Analysis of the Role of Stellate Cell VCAM-1 in NASH Models in Mice.

Int J Mol Sci. 2023 Mar 2;24(5):4813.

8. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity.

Kalafati L, Kourtzelis I, Schulte-Schrepping J, Li X, Hatziioannou A, Grinenko T, Hagag E, Sinha A, Has C, Dietz S, de Jesus Domingues AM, Nati M, Sormendi S, Neuwirth A, **Chatzigeorgiou A**, Ziogas A, Lesche M, Dahl A, Henry I, Subramanian P, Wielockx B, Murray P, Mirtschink P, Chung KJ, Schultze JL, Netea MG, Hajishengallis G, Verginis P, Mitroulis I, Chavakis T.

Cell. 2020 Oct 29;183(3):771-785.e12.

9. **Chatzigeorgiou A**, Mitroulis I, Chrysanthopoulou A, Legaki AI, Ritis K, Tentolouris N, Protogerou AD, Koutsilieris M, Sfrikakis PP. Increased Neutrophil Extracellular Traps Related to Smoking Intensity and Subclinical Atherosclerosis in Patients with Type 2 Diabetes.

Thromb Haemost. 2020 Nov;120(11):1587-1589.

10. Troullinaki M, Chen LS, Witt A, Pyrina I, Phielers J, Kourtzelis I, Chmelar J, Sprott D, Gercken B, Koutsilieris M, Chavakis T, **Chatzigeorgiou A**.

Robo4-mediated pancreatic endothelial integrity decreases inflammation and islet destruction in autoimmune diabetes.

FASEB J. 2020 Feb;34(2):3336-3346.

11. Mitroulis I, Ruppova K, Wang B, Chen LS, Grzybek M, Grinenko T, Eugster A, Troullinaki M, Palladini A, Kourtzelis I, **Chatzigeorgiou A**, Schlitzer A, Beyer M, Joosten LAB, Isermann B, Lesche M, Petzold A, Simons K, Henry I, Dahl A, Schultze JL, Wielockx B, Zamboni N, Mirtschink P, Coskun Ü, Hajishengallis G, Netea MG, Chavakis T. Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity.

Cell. 2018 Jan 11;172(1-2):147-161.e12.

12. Chung KJ*, **Chatzigeorgiou A***, Economopoulou M, Garcia-Martin R, Alexaki VI, Mitroulis I, Nati M, Gebler J, Ziemssen T, Goelz SE, Phieler J, Lim JH, Karalis KP, Papayannopoulou T, Blüher M, Hajishengallis G, Chavakis T. A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity. **Nature Immunology** 2017 Jun;18(6):654-664. *equal first authors
13. von Loeffelholz C, Lieske S, Neuschäfer-Rube F, Willmes DM, Raschzok N, Sauer IM, König J, Fromm MF, Horn P, **Chatzigeorgiou A**, Pathe-Neuschäfer-Rube A, Jordan J, Pfeiffer AFH, Mingrone G, Bornstein SR, Stroehle P, Harms C, Wunderlich FT, Helfand SL, Bernier M, de Cabo R, Shulman GI, Chavakis T, Püschel GP, Birkenfeld AL. The human longevity gene homolog INDY and interleukin-6 interact in hepatic lipid metabolism. **Hepatology**. 2017 Aug;66(2):616-630.
14. Chmelař J, **Chatzigeorgiou A**, Chung KJ, Prucnal M, Voehringer D, Roers A, Chavakis T. No Role for Mast Cells in Obesity-Related Metabolic Dysregulation. **Front Immunol**. 2016 Nov 24;7:524.
15. **Chatzigeorgiou A**, Chung KJ, Garcia-Martin R, Alexaki VI, Klotzsche-von Ameln A, Phieler J, Sprott D, Kanczkowski W, Tzanavari T, Bdeir M, Bergmann S, Cartellieri M, Bachmann M, Nikolakopoulou P, Androutsellis-Theotokis A, Siegert G, Bornstein SR, Muders MH, Boon L, Karalis KP, Lutgens E, Chavakis T. Dual role of B7 costimulation in obesity-related nonalcoholic steatohepatitis and metabolic dysregulation. **Hepatology**. 2014 Oct;60(4):1196-210.
16. **Chatzigeorgiou A**, Seijkens T, Zarzycka B, Engel D, Poggi M, van den Berg S, van den Berg S, Soehnlein O, Winkels H, Beckers L, Lievens D, Driessen A, Kusters P, Biessen E, Garcia-Martin R, Klotzsche-von Ameln A, Gijbels M, Noelle R, Boon L, Hackeng T, Schulte KM, Xu A, Vriend G, Nabuurs S, Chung KJ, Willems van Dijk K, Rensen PC, Gerdes N, de Winther M, Block NL, Schally AV, Weber C, Bornstein SR, Nicolaes G, Chavakis T, Lutgens E. Blocking CD40-TRAF6 signaling is a therapeutic target in obesity-associated insulin resistance. **Proc Natl Acad Sci U S A**. 2014 Feb 18;111(7):2686-91.
17. **Chatzigeorgiou A**, Kandaraki E, Piperi C, Livadas S, Papavassiliou AG, Koutsilieris M, Papalois A, Diamanti-Kandaraki E. Dietary glycotoxins affect scavenger receptor expression and the hormonal profile of female rats. **J Endocrinol**. 2013 Aug 29;218(3):331-7.
18. Phieler J, Chung KJ*, **Chatzigeorgiou A***, Klotzsche-von Ameln A,, Mziaut H, Solimena M, Karalis KP, Economopoulou M, Lambris JD, Chavakis T. The complement anaphylatoxin C5a receptor contributes to obese adipose tissue inflammation and insulin resistance. **J Immunol**. 2013 Oct 15;191(8):4367-74.
19. Langer HF, Choi EY, Zhou H, Schleicher R, Chung KJ, Tang Z, Göbel K, Bdeir K, **Chatzigeorgiou A**, Wong C, Bhatia S, Kruhlak MJ, Rose JW, Burns JB, Hill KE, Qu H, Zhang Y, Lehrmann E, Becker KG, Wang Y, Simon DI, Nieswandt B, Lambris JD, Li X, Meuth SG, Kubes P, Chavakis T. Platelets contribute to the pathogenesis of experimental autoimmune encephalomyelitis. **Circ Res**. 2012 Apr 27;110(9):1202-10.
20. **Chatzigeorgiou A**, Harokopos V, Mylona-Karagianni C, Tsouvalas E, Aidinis V, Kamper EF. The pattern of inflammatory/anti-inflammatory cytokines and chemokines in type 1 diabetic patients over time. **Ann Med**. 2010 Sep;42(6):426-38.

C. MOST IMPORTANT REVIEWS (with reverse chronological order)

1. Papadakos SP, Georgiadou C, Kassi E, Velliou RI, **Chatzigeorgiou A.** Animal models of lean metabolic dysfunction-associated steatotic liver disease (MASLD): bridging pathogenesis and novel drug discovery. **Expert Opin Drug Discov.** 2025 Dec;20(12):1683-1700.
2. Velliou R, Legaki AI, Nikolakopoulou P, Vlachogiannis N, **Chatzigeorgiou A.** Liver endothelial cells in NAFLD and transition to NASH and HCC. **Cell Mol Life Sci.** 2023 Oct 5;80(11):314.
3. Legaki AI, Moustakas II, Sikorska M, Papadopoulos G, Velliou RI, **Chatzigeorgiou A.** Hepatocyte Mitochondrial Dynamics and Bioenergetics in Obesity-Related Non-Alcoholic Fatty Liver Disease. **Curr Obes Rep.** 2022 Sep;11(3):126-143.
4. Papatheodoridi AM, Chrysavgis L, Koutsilieris M, **Chatzigeorgiou A.** The Role of Senescence in the Development of Nonalcoholic Fatty Liver Disease and Progression to Nonalcoholic Steatohepatitis. **Hepatology.** 2020 Jan;71(1):363-374.
5. Chung KJ, Nati M, Chavakis T, **Chatzigeorgiou A.** Innate immune cells in the adipose tissue. **Rev Endocr Metab Disord.** 2018 Dec;19(4):283-292.
6. **Chatzigeorgiou A,** Kandaraki E, Papavassiliou AG, Koutsilieris M. Peripheral targets in obesity treatment: a comprehensive update. **Obes Rev.** 2014 Jun;15(6):487-503.
7. **Chatzigeorgiou A,** Karalis KP, Bornstein SR, Chavakis T. Lymphocytes in obesity-related adipose tissue inflammation. **Diabetologia.** 2012 Oct;55(10):2583-2592.