

PERSONAL DATA

Name Antonios Chatzigeorgiou
 Date and place of birth: 25.02.1982, Athens, Greece
 Contact details achatzig@med.uoa.gr / +30-210-7462623
 Current position and address: Associate Professor of Experimental and Clinical Physiology
 Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Mikras Asias 75, 11527, Athens, Greece

DEGREES / DIPLOMAS

2019 **Board-certified Medical Specialty in Laboratory Medicine**, Medical Association of Saxony, Germany
 2005-2009 **PhD**, Department of Physiology, Medical School, University of Athens, Greece
 2005-2009 **MD**, School of Medicine, University of Athens, Greece
 1999-2004 **BSc in Biology**, University of Athens, Greece

WORK EXPERIENCE IN SCIENTIFIC POSITIONS

6/2022-present **Associate Professor**, Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece
 2018 - 2022 **Assistant Professor**, Department of Experimental Physiology, School of Medicine, National & 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**, University Clinic, University Dresden, Germany (2013-2015 in Internal Medicine and 2015-2018 in Laboratory Medicine)
 2011 – 2013 **Postdoctoral Fellow**, Department of Internal Medicine III and Institute of Physiology, Medical Faculty, University Dresden, Germany
 2009 - 2010 *Pause in Scientific Activities due to Compulsory Military Service in Greece*
 2005 – 2009 **PhD student**, Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece
 2003 – 2004 **Diploma Thesis student** (for obtaining the BSc in Biology), Dep. of Exp. Physiology, School of Medicine, National & Kapodistrian University of Athens (in cooperation with the Sector of Genetics, Department of Biology, National & Kapodistrian University of Athens, Greece)

AWARDS / HONORS

1. **Young Investigator Award 2020 in the field of Molecular Medicine**, International Journal of Molecular Science
2. **Young Investigator Research Award Program 2019** of the European Foundation for the Study of Diabetes
3. **Research Award 2019 of the Athens Medical Society (Greece)** in the category 'Basic Research'
4. **Herrmann Rein Award 2018** (2nd position) of the German Society for Microcirculation and Vascular Biology
5. **Young Investigator Award 2015** (Ivar Trautschold Award), German Society for Clinical Chemistry and Laboratory Medicine (DGKL)

6. **Young Investigator Award 2014** (G. Schettler Award), German Atherosclerosis Society (DGAF)
7. **Research Award 2013** of the German Centre for Diabetes Research (DZD)
8. **Young Investigator Award 2013, European Society of Endocrinology**
9. **Basic science meeting grant**, European Congress of Endocrinology 2013.
10. 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 Nat. Rev. Endocrinology (April 2017) under the title 'Macrophage retention inhibits beige adipogenesis in obesity' (*equal first authors)
11. 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 Grant Reviewer for over 10 Foundations: Swiss National Science Foundation, Institute Pasteur Incentive Research Programs and Partnerships, German-Israeli Foundation for Scientific Research etc.

Ad hoc Reviewer for over 50 journals including Hepatology, American Journal of Physiology-Endocrinology and Metabolism, Eur. J.Endocrinology, Plos One, Frontiers Immunology etc

FUNDING AS PRINCIPAL INVESTIGATOR

Funding Body	Title of project	Time
MeDDrive-Start Grant - Medical Faculty of University of Dresden, Germany	The role of CD28 in obesity-related insulin resistance	2015-2016
German Research Foundation (DFG)	Crosstalk between Foxp3+ Tregs and Type 2 Immunity in Maintaining Adipose Tissue Homeostasis	2017-2020
German Research Foundation (DFG)	Co-stimulatory interactions in the development of Non-Alcoholic Steatohepatitis and Liver Fibrosis	2018-2021
Hellenic Association for the Study of Liver (HASL)	Epigenetic regulation of NAFLD-related senescence	2019-2021
European Foundation for the Study of Diabetes (EFSD)	Immune regulation of cardiometabolic disease in obesity-induced diabetes	2019-2021
Hellenic Foundation for Research and Innovation (HFRI)	Robo4 as regulator and biomarker of obesity-related adipose tissue dysfunction and insulin resistance	2020-2023
Taconic Biosciences Academic Grant Program	In vivo imaging for non-invasive characterization of NAFLD/NASH progression	2021-2022

BIBLIOGRAPHY

A. OVERVIEW

Total number of publications in Pubmed: 73

Total Impact Factor: 631.03

H-index (Scopus / Google Scholar): 30 / 34

B. MOST IMPORTANT ORIGINAL ARTICLES

1. Arida A. , Legaki A-I, Kravvariti E, Protogerou A, Sfikakis PP, **Chatzigeorgiou A:** PCSK9/LDLR System and Rheumatoid Arthritis-Related Atherosclerosis **Front Cardiovasc Med** 2021 Oct 8;8:738764.

2. Moustakas, II, Katsarou A, Legaki AI, Pyrina I, Ntostoglou K, Papatheodoridi AM, Gercken B, Pateras IS, Gorgoulis VG, Koutsilieris M, Chavakis T, **Chatzigeorgiou A**: Hepatic Senescence Accompanies the Development of NAFLD in Non-Aged Mice Independently of Obesity. *Int J Mol Sci* 2021;22
3. Troullinaki M, Chen LS, Witt A, Pyrina I, Phieler 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;34:3336-3346
4. Kalafati L, Kourtzelis I, Schulte-Schrepping J, Li X, Hatzioannou 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,Verginis P, Mitroulis I, Chavakis T: Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity. *Cell* 2020;183:771-785 e712
5. **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;120:1587-1589
6. Nikolakopoulou P, **Chatzigeorgiou A**, Kourtzelis I, Toutouna L, Chrousos G, Yi CX, Garcia-Caceres C, Tschop MH, Bornstein SR, Androutsellis-Theotokis A: Streptozotocin-induced beta-cell damage, high fat diet, and metformin administration regulate Hes3 expression in the adult mouse brain. *Sci Rep* 2018;8:11335
7. Moysidou M, Karaliota S, Kodela E, Salagianni M, Koutmani Y, Katsouda A, Kodella K, Tsakanikas P, Ourailidou S, Andreacos E, Kostomitsopoulos N, Skokos D, **Chatzigeorgiou A**, Chung KJ, Bornstein S, Sleeman MW, Chavakis T, Karalis KP: CD8+ T cells in beige adipogenesis and energy homeostasis. *JCI Insight* 2018;3
8. 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..... Hajishengallis G, Netea MG, Chavakis T: Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity. *Cell* 2018;172:147-161 e112
9. **Chatzigeorgiou A***, Chung KJ*, Economopoulou M, Garcia-Martin R, Hajishengallis G, Chavakis T: A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity. *Nat Immunol* 2017;18:654-664 *equal first authors
10. Chmelar 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;7:524
11. **Chatzigeorgiou A**, Seijkens T, Zarzycka B, Engel D, Poggi M, van den Berg S, van den Berg S, Soehnlein O, Winkels H, Beckers L,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 USA* 2014;111:2686-2691
12. **Chatzigeorgiou A**, Chung KJ, Garcia-Martin R, Alexaki VI, Klotzsche-von Ameln A, Phieler J, Sprott D, Kanczkowski W, Tzanavari T..... 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;60:1196-1210
13. Phieler J, Chung KJ*, **Chatzigeorgiou A***, Klotzsche-von Ameln A, Garcia-Martin R, , Lambris JD, Chavakis T: The complement anaphylatoxin C5a receptor contributes to obese adipose tissue inflammation and insulin resistance. *J Immunol* 2013;191:4367-4374
14. **Chatzigeorgiou A**, Phieler J, Gebler J, Bornstein SR, Chavakis T: CD40L stimulates the crosstalk between adipocytes and inflammatory cells. *Horm Metab Res.* 2013 Sep;45(10):741-7.
15. **Chatzigeorgiou A**, Kandaraki E, Piperi C, Livadas S, Papavassiliou AG, Koutsilieris M, Papalois A, Diamanti-Kandarakis E: Dietary glycotoxins affect scavenger receptor expression and the hormonal profile of female rats. *J Endocrinol.* 2013 Aug 29;218(3):331-7.
16. **Chatzigeorgiou A***, Kanczkowski W*, Grossklaus S, Sprott D, Bornstein SR, Chavakis T: Role of the endothelial-derived endogenous anti-inflammatory factor Del-1 in inflammation-mediated adrenal gland

dysfunction. **Endocrinology**. 2013 Mar;154(3):1181-9. IF: 4.74

17. Langer HF, Choi EY, Zhou H, Schleicher R, Chung KJ, Tang Z, Gobel K, Bdeir K, **Chatzigeorgiou A**, Wong C, Bhatia S, Kruhlak MJ, Lambris JD, Li X, Meuth SG, Kubes P, Chavakis T: Platelets contribute to the pathogenesis of experimental autoimmune encephalomyelitis. **Circ Res** 2012;110:1202-1210

18. **Chatzigeorgiou A***, Ellina O*, Kouyanou S, Lymberi M, Mylona-Karagianni C, Tsouvalas E, Kamper EF: Extracellular matrix-associated (GAGs, CTGF), angiogenic (VEGF) and inflammatory factors (MCP-1, CD40, IFN-gamma) in type 1 diabetes mellitus nephropathy. **Clin Chem Lab Med** 2012;50:167-174 *equal first authors

19. Kamper M, Tsimpoukidi O, **Chatzigeorgiou A**, Lymberi M, Kamper EF: The antioxidant effect of angiotensin II receptor blocker, losartan, in streptozotocin-induced diabetic rats. **Transl Res** 2010;156:26-36

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;42:426-438

C) MOST IMPORTANT REVIEWS

1. 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.

2. 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.

3. 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.

4. **Chatzigeorgiou A**, Kandaraki E, Papavassiliou AG, Koutsilieris M. Peripheral targets in obesity treatment: a comprehensive update. **Obes Rev**. 2014 Jun;15(6):487-503.

5. **Chatzigeorgiou A**, Karalis KP, Bornstein SR, Chavakis T. Lymphocytes in obesity-related adipose tissue inflammation. **Diabetologia**. 2012 Oct;55(10):2583-2592.