

# **CURRICULUM VITAE**

## **PERSONAL DATA**

Name Antonios Chatzigeorgiou  
Date of birth 25.02.1982  
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Current position and address Assistant Professor of Experimental Physiology  
Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Mikras Asias 75, 11527, Athens, Greece

## **EDUCATION / DEGREES**

2004 **BSc in Biology**, Department of Biology, National & Kapodistrian University of Athens, Greece.  
2009 **MD**, School of Medicine, National & Kapodistrian University of Athens, Greece  
2009 **PhD**, Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece  
2019 **Board-certified Medical Specialty** in Laboratory Medicine, Medical Association of Saxony, Germany

## **AWARDS / HONORS**

1. **Young Investigator Research Award Program 2019** of the European Foundation for the Study of Diabetes
2. **Research Award 2019 of the Athens Medical Society (Greece)** in the category 'Basic Research'
3. **Herrmann Rein Award 2018** (2nd position) of the German Society for Microcirculation and Vascular Biology
4. **Young Investigator Award 2015 (Ivar Trautschold Award)**, German Society for Clinical Chemistry and Laboratory Medicine (DGKL, Deutsche Gesellschaft für Klinische Chemie und Laboratoriumsmedizin)
5. **Young Investigator Award 2014 (Gotthard Schettler Award)**, German Atherosclerosis Society (DGAF, Deutsche Gesellschaft für Arterioskleroseforschung)
6. **German Center for Diabetes Research Award 2013** (Deutsches Zentrum für Diabetesforschung, DZD)
7. **Young Investigator Award 2013, European Society of Endocrinology**
8. **Basic science meeting grant**, European Congress of Endocrinology 2013.
9. The paper with title 'A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity' by Chatzigeorgiou\*, Chung\* et al (**Nature Immunology 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*)
10. The paper with title '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'

## **WORK EXPERIENCE IN SCIENTIFIC POSITIONS**

- 2003 - 2009      **Diploma Thesis student** (2003-2004) and **PhD student** (2005-2009), Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece.
- 2009 - 2010      *Pause in Scientific Activities due to Compulsory Military Service in Greece*
- 2011 - 2013      **Postdoctoral Fellow**, Department of Internal Medicine III, Division of Vascular Inflammation, Diabetes and Kidney, Medical Faculty, University of Dresden, Germany
- 2013 - 2018      **Senior Research Associate**, Department of Clinical Pathobiochemistry, Institute of Clinical Chemistry and Laboratory Medicine, Medical Faculty, University of Dresden, Germany
- 2013 - 2018      **Medical Resident**, University Clinic, University of Dresden  
A) 2013 - 2015 in Internal Medicine, Department of Internal Medicine III  
B) 2015 - 2018 in Laboratory Medicine, Institute for Clinical Chemistry and Laboratory Medicine
- 10/2016-3/2018: **Head of the Clinical Endocrinology Lab** of the Institute
- 2018 - present      **Assistant Professor of Experimental Physiology**, Department of Physiology, School of Medicine, National and Kapodistrian University of Athens, Greece

## **TEACHING / SUPERVISING EXPERIENCE**

- 2005-2009      Teaching Assistant in laboratory training of medical students for the course "**Medical Physiology**" (Department of Experimental Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece)
- 2013-2015      **Lecturer** in the PhD/MD program, "Molecular Endocrinology" as well as in the PhD program "Endothelium in Health and Disease" (both in Medical Faculty, University of Dresden, Germany)
- 2013-2018      Supervision of **3 PhD students** in the Department of Clinical Pathobiochemistry, Medical Faculty, University of Dresden
- 2014-2015      **Lecturing and Practical training** of 4th year medical students in disease pathophysiology, physical examination, medical history and disease therapy. Department of Internal Medicine III, University Clinic, University of Dresden, Germany
- 2015-2018      **Lecturing and Practical training** of 3th year medical students in Laboratory Medicine. Institute of Clinical Chemistry and Laboratory Medicine, University Clinic, University of Dresden, Germany
- 2018-present      **Lecturer and Research Supervisor** in the MSc program, "Molecular Biomedicine" as well as in the MSc/PhD program "Molecular and Applied Physiology" (both from School of Medicine, National & Kapodistrian University of Athens, Greece)

2018-present      Supervision of 2 **postdoctoral fellows**, **6 PhD students** as well as 4 **MSc students** in the Department of Exp. Physiology, School of Medicine, National & Kapodistrian University of Athens, Greece

### **FUNDING AS PRINCIPAL INVESTIGATOR**

- **MeDDrive-Start Grant** as PI (2015-2016) of the Medical Faculty of University of Dresden. (Ranked 1<sup>st</sup> in the selection process)
- **German Research Foundation (DFG) grant** as Co-PI (2017-2020) as part of a research group of projects (DFG-Forschungsgruppe FOR2599)
- **German Research Foundation (DFG) grant** as PI (2018-2021)
- **Hellenic Association for the Study of Liver** as PI (2019-2021)
- **European Foundation for the Study of Diabetes** as PI (2019-2021)
- **Hellenic Foundation for Research and Innovation (HFRI / ELIDEK)** as PI (2020-2023).
- **Hellenic Foundation for Research and Innovation (HFRI / ELIDEK)** as Co-PI (2020-2023).

### **COMMISSIONS OF TRUST**

**A. Ad hoc Grant Reviewer: 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, Ireland Health Research Board etc

**B. Ad hoc Reviewer for research journals: Ad hoc Reviewer for over 30 journals** including Am.J. Physiol. End. Metab., Hepatology, JCI Insight, FASEB Journal, Eur.J.Endocrinology, Cellular & Molecular Immunology, Plos One, Frontiers Immunology, Cellular & Molecular Life Sciences, Thrombosis & Haemostasis etc

### **SOCIETY MEMBERSHIPS**

1. European Society of Endocrinology
2. European Association for the Study of Diabetes (EASD)
3. German Society for Clinical Chemistry and Laboratory Medicine (Deutschen Vereinte Gesellschaft für Klinische Chemie und Laboratoriumsmedizin, DGKL)
4. Medical Association of Saxony, Germany (Sächsische Landesärztekammer)
5. Medical Association of Athens, Greece
6. Hellenic Society of Physiology
7. Hellenic Association for the Study of Liver

### **PUBLICATIONS**

#### **A) Statistics / Overview**

Total number of publications in international peer-reviewed journals	57
Total Impact factor	375.1
Citations (Google scholar / Scopus)	2.779 / 1.921
H-index (Google scholar / Scopus):	29 / 24

### **A) Most important original articles (with reverse chronological order)**

1. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity.  
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**..... Netea MG, Hajishengallis G, Verginis P, Mitroulis I, Chavakis T.  
**Cell.** 2020 Oct 29;183(3):771-785.e12. doi: 10.1016/j.cell.2020.09.058.
2. Increased Neutrophil Extracellular Traps Related to Smoking Intensity and Subclinical Atherosclerosis in Patients with Type 2 Diabetes.  
**Chatzigeorgiou A**, Mitroulis I, Chrysanthopoulou A, Legaki AI, Ritis K, Tentolouris N, Protogerou AD, Koutsilieris M, Sfrikakis PP.  
**Thromb Haemost.** 2020 Nov;120(11):1587-1589.
3. Robo4-mediated pancreatic endothelial integrity decreases inflammation and islet destruction in autoimmune diabetes. Troullinaki M, Chen LS<sup>1</sup>, Witt A, Pyrina I, Phieler J, Kourtzelis I, Chmelar J, Sprott D, Gercken B, Koutsilieris M, Chavakis T, **Chatzigeorgiou A**  
**FASEB J.** 2020 Feb;34(2):3336-3346.
4. Endothelial-Specific Deficiency of ATG5 (Autophagy Protein 5) Attenuates Ischemia-Related Angiogenesis. Sprott D, Poitz DM, Korovina I, Ziogas A, Phieler J, **Chatzigeorgiou A**, ..... Klotzsche-von Ameln A.  
**Arterioscler Thromb Vasc Biol.** 2019 Jun;39(6):1137-1148.
5. Modulation of haematopoietic progenitors is an integral component of trained immunity.  
Mitroulis I, Ruppova K, Wang B, Chen LS, Grzybek M, Grinenko T, Eugster A, Troullinaki M, Palladini A, Kourtzelis I, **Chatzigeorgiou A**, ....., Netea M, Chavakis T.  
**Cell.** 2018 Jan 11;172(1-2):147-161.e12.
6. Streptozotocin-induced  $\beta$ -cell damage, high fat diet, and metformin administration regulate Hes3 expression in the adult mouse brain.  
Nikolakopoulou P, **Chatzigeorgiou A**, Kourtzelis I, ..... Chrousos G, Yi CX, García-Cáceres C, Tschöp MH, Bornstein SR, Androutsellis-Theotokis A.  
**Sci Rep.** 2018 Jul 27;8(1):11335. doi: 10.1038/s41598-018-29434-2.
7. CD8+ T cells in beige adipogenesis and energy homeostasis.  
Moysidou M, Karaliota S, Kodela E, Salagianni M, Koutmani Y, Katsouda A, Kodella K, Tsakanikas P, Ourailidou S, Andreakos E, Kostomitsopoulos N, Skokos D, **Chatzigeorgiou A**.....Chavakis T, Karalis KP.  
**JCI Insight.** 2018 Mar 8;3(5):e95456. doi: 10.1172/jci.insight.95456.
8. A self-sustained loop of inflammation-driven inhibition of beige adipogenesis in obesity.  
**Chatzigeorgiou A\***, Chung KJ\*, Garcia-Martin R, ..... Hajishengallis G, Chavakis T  
**Nat Immunol.** 2017 Jun;18(6):654-664. **\*equal first author**
9. The Human Longevity Gene Homolog INDY and Interleukin-6 Interact in Hepatic Lipid Metabolism.  
von Loeffelholz C, Lieske S, Neuschäfer-Rube F, Willmes DM, Raschzok N, Sauer IM, König J, Fromm M, Horn P, **Chatzigeorgiou A**, .....Püschel GP, Birkenfeld AL.  
**Hepatology.** 2017 Aug;66(2):616-630
10. No role for mast cells in obesity-related metabolic dysregulation  
Chmelar J, **Chatzigeorgiou A**, Chung KJ, Prucnal M, Voehringer D, Roers A, Chavakis T  
**Front. Immunol.** 2016 Nov;7:524.
11. Adipocyte-Specific Hypoxia-Inducible Factor 2 $\alpha$  Deficiency Exacerbates Obesity-Induced Brown Adipose Tissue Dysfunction and Metabolic Dysregulation.  
García-Martín R, Alexaki VI, Qin N, ..... **Chatzigeorgiou A**, Chung KJ, Chavakis T.  
**Mol Cell Biol.** 2015 Nov 16;36(3):376-93.

12. Developmental endothelial locus-1 is a homeostatic factor in the central nervous system limiting neuroinflammation and demyelination.  
Choi EY, Lim JH, Neuwirth A, Economopoulou M, **Chatzigeorgiou A**, Chung KJ, ..... Hosur K, Bornstein SR, Meuth SG, Hajishengallis G, Chavakis T.  
**Mol Psychiatry**. 2015 Jul;20(7):880-8.
13. Dual role of B7 costimulation in obesity-related non-alcoholic steatohepatitis (NASH) and metabolic dysregulation.  
**Chatzigeorgiou A**, Chung KJ, Garcia-Martin R, .....Karalis KP, Lutgens E, Chavakis T.  
**Hepatology**. 2014 Oct;60(4):1196-210.
14. Blocking CD40-TRAF6 signaling is a therapeutic target in obesity-associated insulin resistance.  
**Chatzigeorgiou A**, Seijkens T, Zarzycka B, Engel D, Poggi M, ....., Nicolaes G, Chavakis T, Lutgens E.  
**Proc Natl Acad Sci U S A**. 2014 Feb 18;111(7):2686-91.
15. Dietary glycotoxins affect scavenger receptor expression and the hormonal profile of female rats.  
**Chatzigeorgiou A**, Kandaraki E, Piperi C, Livadas S, Papavassiliou AG, Koutsilieris M, Papalois A, Diamanti-Kandarakis E.  
**J Endocrinol**. 2013 Aug 29;218(3):331-7. **IF= 4.71**
16. Role of the endothelial-derived endogenous anti-inflammatory factor Del-1 in inflammation-mediated adrenal gland dysfunction.  
**Chatzigeorgiou A\***, Kanczkowski W\*, Grossklaus S, Sprott D, Bornstein SR, Chavakis T.  
**Endocrinology**. 2013 Mar;154(3):1181-9.
17. The complement anaphylatoxin C5a receptor contributes to obese adipose tissue inflammation and insulin resistance.  
Phieler J, Chung KJ\*, **Chatzigeorgiou A\***, Klotzsche-von Ameln A, .....Chavakis T.  
**J Immunol**. 2013 Oct 15;191(8):4367-74.
18. Extracellular matrix-associated (GAGs, CTGF), angiogenic (VEGF) and inflammatory factors (MCP-1, CD40, IFN- $\gamma$ ) in type 1 diabetes mellitus nephropathy.  
**Chatzigeorgiou A\***, Ellina O\*, Kouyanou S, Lymberi M, Mylona-Karagianni C, Tsouvalas E, Kamper EF.  
**Clin Chem Lab Med**. 2012 Jan;50(1):167-74.
19. Platelets contribute to the pathogenesis of experimental autoimmune encephalomyelitis.  
Langer HF, Choi EY, Zhou H, Schleicher R, Chung KJ, Tang Z, Göbel K, Bdeir K, **Chatzigeorgiou A**, Wong C, Bhatia S, .....Kubes P, Chavakis T.  
**Circ Res**. 2012 Apr 27;110(9):1202-10.
20. Endocrine disruptors and polycystic ovary syndrome (PCOS): elevated serum levels of bisphenol A in women with PCOS.  
Kandaraki E, **Chatzigeorgiou A**, Livadas S, .....Panidis D, Diamanti-Kandarakis E.  
**J Clin Endocrinol Metab**. 2011 Mar;96(3):E480-4.
21. The pattern of inflammatory/anti-inflammatory cytokines and chemokines in type 1 diabetic patients over time.  
**Chatzigeorgiou A**, Harokopos V, Mylona-Karagianni C, Tsouvalas E, Aidinis V, Kamper EF.  
**Ann Med**. 2010 Sep;42(6):426-38.
22. The antioxidant effect of angiotensin II receptor blocker, losartan, in streptozotocin-induced diabetic rats.  
Kamper M, Tsimpoukidi O, **Chatzigeorgiou A**, Lymberi M, Kamper EF.  
**Transl Res**. 2010 Jul;156(1):26-36.

## **B) Most important reviews**

1. Fate of Adipose Progenitor Cells in Obesity-Related Chronic Inflammation.  
Pyrina I, Chung KJ, Michailidou Z, Koutsilieris M, Chavakis T, **Chatzigeorgiou A**.  
Front Cell Dev Biol. 2020 Jul 14;8:644.
2. The role of senescence in the development of non-alcoholic fatty liver disease and progression to non-alcoholic steatohepatitis.  
Papatheodoridi AM, Chrysavgis L, Koutsilieris M, **Chatzigeorgiou A**.  
Hepatology. 2020 Jan;71(1):363-374.
3. The role of immune cells in metabolism-related liver inflammation and development of non-alcoholic steatohepatitis (NASH).  
Nati M, Haddad D, Birkenfeld AL, Koch CA, Chavakis T, **Chatzigeorgiou A**.  
Rev Endocr Metab Disord. 2016 Mar; 17(1):29-39
4. Peripheral targets in obesity treatment: a comprehensive update.  
**Chatzigeorgiou A**, Kandaraki E, Papavassiliou AG, Koutsilieris M.  
Obes Rev. 2014 Jun;15(6):487-503.
5. Lymphocytes in obesity-related adipose tissue inflammation.  
**Chatzigeorgiou A**, Karalis KP, Bornstein SR, Chavakis T.  
Diabetologia. 2012 Oct;55(10):2583-92.