

Chavakis, Triantafyllos, Prof., MD (B03)

Personal Data

Title	Prof. Dr. med.
First name	Triantafyllos
Name	Chavakis
Current position	Professor (W3) of Clinical Chemistry and Clinical Pathobiochemistry; Director of Institute for Clinical Chemistry and Laboratory Medicine; permanent position
Current institution(s)/site(s), country	Institute for Clinical Chemistry and Laboratory Medicine, University Hospital Dresden (UKD) and Faculty of Medicine, Technische Universität Dresden (TUD), Fetscherstr. 74, 01307 Dresden, Germany
Identifiers/ORCID	ORCID-ID: 0000-0002-1869-5141

Qualifications and Career

Stages	Periods and Details
Degree programme: Medicine	1993 – 2000, Justus-Liebig-University (JLU) Giessen, Germany
Doctorate: MD thesis	27.09.2001: Supervisor: Klaus T. Preissner, Germany, “ <i>Untersuchungen zum Urokinase-Rezeptor: Seine Rolle in der Zelladhäsion und der perizellulären Proteolyse</i> ”, JLU Giessen, Germany
Stages of academic / professional career	
Since 2017	Director, Institute for Clinical Chemistry and Laboratory Medicine, UKD, TUD, Dresden, Germany
2014 – 2017	W3 Professor and Head of Clinical Pathobiochemistry, Institute for Clinical Chemistry and Laboratory Medicine, UKD, TUD, Dresden, Germany
2016	Board certification <i>Laboratory Medicine</i>
2012	Board certification <i>Internal Medicine</i>
2010 – 2014	W2 Professor at the Medical Clinic III, UKD, TUD, Dresden, Germany
2005 – 2010	Principal Investigator, Head of the Inflammation Biology Section, Experimental Immunology Branch, National Cancer Institute, NIH, Bethesda, MD, USA
2002 – 2004	Resident physician, Department of Internal Medicine I, University Hospital Heidelberg, Germany
2000 – 2002	Intern, Third Department of Internal Medicine and research associate, Institute for Biochemistry, JLU Giessen, Germany

Engagement in the Research System

- ERC Advanced Grant (LOSYSINCHRON), awarded 2022 (period: 3/2023 – 2/2028)
- Member, SaxoChiLD (designated partner of the future German Center for Child and Youth Health - DZKJ) (since 2021)

- CBG-Fellow, Max-Planck Institute of Molecular Cell Biology and Genetics, Dresden (2019 – 2025)
- Visiting Professor, Queen's Medical Research Institute, College of Medicine and Veterinary Medicine, University of Edinburgh, UK (2019 – 2025)
- Director, Metabolomics Platform of the National Center for Tumor Diseases Dresden (since 2019; from 2023 Co-Director together with P. Mirtschink)
- Director, Dresden Integrated Liquid Biobank of the BioBank Dresden (since 2018)
- Affiliation - Regular Invitee of the Extended Board of Directors, National Center for Tumor Diseases (NCT) Dresden / University Cancer Center (UCC) Dresden (since 2018)
- ERC Consolidator Grant (DEMETINL) (2017 – 2022)
- David Pyke and Peter Watkins Visiting Professor in Diabetes and Endocrinology, King's College Hospital London, UK (2014)
- ERC Starting Grant (ENDHOMRET) (2011 – 2016)
- Faculty Member / Head of Group, Paul Langerhans Institute Dresden / Institute for Pancreatic Islet Research Dresden, Helmholtz Center Munich and German Center for Diabetes Research (since 2011)
- Reinhart-Koselleck Project (DFG) (2011 – 2017)
- Faculty, Dresden International Graduate School for Biomedicine and Bioengineering (DIGS-BB) (since 2010)

Scientific Results

Category A, * contributed equally, # open access

1. Subramanian P, Gargani S, Palladini A, Chatzimike M, Grzybek M, Peitzsch M, Papanastasiou AD, Pyrina I, Ntakis V, Gercken B, Lesche M, Petzold A, Sinha A, Nati M, Thangapandi VR, Kourtzelis I, Andreadou M, Witt A, Dahl A, Burkhardt R, Haase R, Domingues AMJ, Henry I, Zamboni N, Mirtschink P, Chung KJ, Hampe J, Coskun Ü, Kontoyiannis DL*, **Chavakis T***. The RNA binding protein human antigen R is a gatekeeper of liver homeostasis. **Hepatology** 2022; 75(4):881-897. doi: 10.1002/hep.32153. #
2. Li X, Wang H, Yu X, Saha G, Kalafati L, Ioannidis C, Mitroulis I, Netea MG, **Chavakis T***, Hajishengallis G*. Maladaptive innate immune training of myelopoiesis links inflammatory comorbidities. **Cell** 2022; 85(10):1709-1727. doi: 10.1016/j.cell.2022.03.043. #
3. 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, 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***. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity. **Cell** 2020; 183(3): 771-785. doi: 10.1016/j.cell.2020.09.058. #
4. Kourtzelis I, Li X, Mitroulis I, Grosser D, Kajikawa T, Wang B, Grzybek M, von Renesse J, Czogalla A, Troullinaki M, Ferreira A, Doreth C, Ruppova K, Chen LS, Hosur K, Lim JH, Chung KJ, Grossklaus S, Tausche AK, Joosten LAB, Moutsopoulos NM, Wielockx B, Castrillo A, Korostoff JM, Coskun Ü, Hajishengallis G*, **Chavakis T***. DEL-1 promotes macrophage efferocytosis and clearance of inflammation. **Nat Immunol** 2019; 20(1):40-49. doi: 10.1038/s41590-018-0249-1. #
5. 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; 172(1-2):147-161. doi: 10.1016/j.cell.2017.11.034. #
6. 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. **Nat Immunol** 2017; 18(6):654-664. doi: 10.1038/ni.3728. #
 7. Economopoulou M, Langer HF, Celeste A, Orlova VV, Choi EY, Ma M, Vassilopoulos A, Callen E, Deng C, Bassing CH, Boehm M, Nussenzweig A, **Chavakis T**. Histone H2AX is integral to hypoxia-driven neovascularization. **Nat Med** 2009; 5(5):553-558. doi: 10.1038/nm.1947. #
 8. Choi EY, Chavakis E, Czabanka MA, Langer HF, Fraemohs L, Economopoulou M, Kundu RK, Orlandi A, Zheng YY, Prieto DA, Ballantyne CM, Constant SL, Aird WC, Papayannopoulou T, Gahmberg CG, Udey MC, Vajkoczy P, Quertermous T, Dimmeler S, Weber C, **Chavakis T**. Del-1, an endogenous leukocyte-endothelial adhesion inhibitor, limits inflammatory cell recruitment. **Science** 2008; 322(5904):1101-1104. doi: 10.1126/science.1165218. #
 9. Orlova VV, Choi EY, Xie C, Chavakis E, Bierhaus A, Ihanus E, Ballantyne CM, Gahmberg CG, Bianchi ME, Nawroth PP, **Chavakis T**. A novel pathway of HMGB1-mediated inflammatory cell recruitment that requires Mac-1-integrin. **EMBO J** 2007; 26(4):1129-1139. doi: 10.1038/sj.emboj.7601552. #
 10. Orlova VV, Economopoulou M, Lupu F, Santoso S, **Chavakis T**. Junctional adhesion molecule-C regulates vascular endothelial permeability by modulating VE-cadherin-mediated cell-cell contacts. **J Exp Med** 2006; 203(12):2703-2714. doi: 10.1084/jem.20051730. #

Academic Distinctions

- Highly Cited Researcher (2022) (Clarivate)
- European Society for Clinical Investigation Award for Excellence in Translational Research (2012)
- Alexander-Schmidt Prize, Gesellschaft für Thrombose- und Hämostasieforschung (2005)
- W. H. Hauss-Prize, Deutsche Gesellschaft für Arterioskleroseforschung (2004)
- Oskar-Lapp-Prize, German Cardiac Society (2003)
- Dr. Herbert Stolzenberg-Prize of the JLU Giessen (2003)
- Otto Hahn Medal, Max Planck Society (2001)

Fields of Research

No.	Fields of research
1	205-10 Toxicology, Occupational Medicine, Clinical Chemistry
2	204-05 Immunology