

## Prof. Triantafyllos Chavakis, MD

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### 1 | General information

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Current position: Professor for Clinical Chemistry and Clinical Pathobiochemistry (W3), Director of Institute for Clinical Chemistry and Laboratory Medicine, University Hospital Carl Gustav Carus, TU Dresden

Researcher unique identifier(s): ORCID-ID: 0000-0002-1869-5141

### 2 | Academic education

1993 – 2000 Medical School, Justus-Liebig University (JLU) Giessen

### 3 | Advanced academic qualifications:

2001 MD thesis *“Untersuchungen zum Urokinase-Rezeptor: Seine Rolle in der Zelladhäsion und der perizellulären Proteolyse”*, JLU Giessen (Supervisor: Klaus T. Preissner)

### 4 | Postgraduate professional career:

Since 2017 Director, Institute for Clinical Chemistry and Laboratory Medicine, University Hospital, TU Dresden  
 2014 – 2017 Professor (W3), Head of Clinical Pathobiochemistry at the Institute for Clinical Chemistry and Laboratory Medicine, University Hospital, TU Dresden  
 2010 – 2014 Professor (W2) at the Medical Clinic III, University Hospital, TU Dresden  
 2005 – 2010 Principal Investigator, Head of Inflammation Biology Section, Experimental Immunology Branch, NCI, NIH, Maryland, USA  
 2002 – 2004 Resident physician, Dept. of Internal Medicine I, University Clinic Heidelberg  
 2000 – 2002 Intern, Third Dept. of Internal Medicine, University Clinic, JLU Giessen, and research associate, Institute for Biochemistry, JLU Giessen

### 5 | Other:

#### **Awards/Honors**

- ERC Consolidator Grant (DEMETINL) (2017 – 2022)
- David Pyke and Peter Watkins Visiting Professor in Diabetes and Endocrinology at King’s College Hospital London, UK (2014)
- European Society for Clinical Investigation Award for Excellence in Translational Research (2012)
- ERC Starting Grant (ENDHOMRET) (2011 – 2016)
- W.H. Hauss-Prize of the “Deutsche Gesellschaft für Arterioskleroseforschung” (2004)
- Oskar-Lapp-Prize of the German Cardiac Society (2003)
- Otto-Hahn-Medal of the Max-Planck-Society (2001)

#### **Other professional activities:**

- Member, SaxoChiLD (designated partner of the future German Center for Child and Youth Health) (since 2021)
- CBG-Fellow, Max-Planck Institute for Cell Biology and Genetics, Dresden (2019 – 2022)

- Visiting Professor, College of Medicine and Veterinary Medicine, University of Edinburgh, UK (2019 – 2025)
- Director, Metabolomics Platform of National Center for Tumor Diseases Dresden (since 2019)
- Director of the Dresden Integrated Liquid Biobank (DILB) of the BioBank Dresden (since 2018)
- Affiliation – Regular Invitee of the Extended Board of Directors, National Center for Tumor Diseases, Partner Site Dresden / University Cancer Center (UCC) Dresden (since 2018)
- Faculty / Group Leader, Paul Langerhans Inst. Dresden / Inst. for Pancreatic Islet Research Dresden, Helmholtz Center Munich and German Center for Diabetes Research (since 2011)

## 6 | Selected publications:

1. 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; 183:771-785
2. 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; 20:40-49
3. 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; 172:147-161
4. 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; 18:654-664
5. 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; 60:1196-1210
6. Eskan MA, Jotwani R, Abe T, Chmelar J, Lim JH, Liang S, Ciero PA, Krauss JL, Li F, Rauner M, Hofbauer LC, Choi EY, Chung KJ, Hashim A, Curtis MA, **Chavakis T\***, Hajishengallis G\*. The leukocyte integrin antagonist Del-1 inhibits IL-17-mediated inflammatory bone loss. *Nature Immunol* 2012; 13:465-473
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; 15:553-558
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; 322:1101-1104
9. 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; 203:2703-2714
10. Santoso S, Sachs UJ, Kroll H, Linder M, Ruf A, Preissner KT, **Chavakis T**. The junctional adhesion molecule 3 (JAM-3) on human platelets is a counterreceptor for the leukocyte integrin Mac-1. *J Exp Med* 2002; 196:679-691

\*contributed equally