

Name

October 22nd, 1974, German

Institution: Institute of Genetic Epidemiology, Medical Center – University of Freiburg

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Position: Director of the Institute, Professor of Genetic Epidemiology

Academic education including academic degrees

- 09/2005-03/2006 Studies of Public Health Johns Hopkins Bloomberg School of Public Health, Baltimore, USA. Degree: “Master of Public Health”, mentors: Dr. J. Coresh, Dr. W.H. L. Kao
- 03/2002 Doctoral degree in medicine (Dr. med.), Albert-Ludwigs-University Freiburg, mentor: Prof. R. Greger
- 2001, 2003 United States Medical Licensing Examination Steps I and II CK
- 10/1994-09/2001 Studies of Human Medicine (M.D.), Albert-Ludwigs-University Freiburg

Scientific graduation

- 2017-present Director and Full Professor (W3), Institute of Genetic Epidemiology, University of Freiburg
- 01/2016-present Heisenberg professorship for Genetic Epidemiology, Albert-Ludwigs-University Freiburg
- 2011 Habilitation in Experimental Medicine, Albert-Ludwigs-University Freiburg, mentor: Prof. G. Walz
- 01/2010-12/2015 Emmy Noether group leader, Albert-Ludwigs-University Freiburg
- 04/2006-03/2008 Postdoctoral fellow, Department of Epidemiology, Johns Hopkins University, Baltimore, USA, mentor: Dr. J. Coresh

Employment

- 10/2009-present Medical Center – University of Freiburg
- 09/2009-present Professor - Adjunct, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA
- 04/2008-09/2009 Assistant Scientist, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Other activities, awards and honours

- 2022 Offer: Chair of Medical Informatics, Statistics and Epidemiology, University of Leipzig; declined
- 2021-present Speaker, CRC 1453 “NephroGenetics”, University of Freiburg
- 2021 Elected Member, The American Society for Clinical Investigation (ASCI)
- 2021 Elected Member, German National Academy of Sciences Leopoldina
- 2020 Co-Chair, KDIGO Controversies Conference Genetics in CKD
- 2020 Landesforschungspreis for Basic Sciences, Baden Württemberg
- 2019-present Speaker, Medical Scientist Program, Faculty of Medicine, University of Freiburg
- 2018-present Speaker of Kidney Expert Group, German National Cohort study
- 2017 CHARGE Consortium Golden Tiger Award for Group Leadership
- 2017 Franz Volhard Prize of the German Society of Nephrology
- 2016-present Co-Director, International Chronic Kidney Disease Genetics (CKDGen) Consortium
- 2013 Offer: Chair of Epidemiology, Ludwigs-Maximilians-University, Munich, Germany; declined
- 2011 Nils Alwall Preis of the German Society of Nephrology

2010	Cozzarelli Prize of the US National Academy of Sciences
2009	Offer: Assistant Professor (tenure track), Depts. of Epidemiology / Biostatistics and Medicine, Case Western Reserve University, Cleveland, USA; declined
2009	Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association
1998-2001	German National Academic Foundation Scholar (Studienstiftung des deutschen Volkes)

Ten most important publications (*shared first/corresponding author)

1. Scherer N, Faessler D, Borisov O, ..., Hertel J, Köttgen A. Coupling of metabolomics and exome sequencing reveals graded effects of rare damaging heterozygous variants on gene function and human traits and diseases. *Nat Genet*, in press (2024).
2. Schlosser P., Scherer N., Grundner-Culeman F., ..., Li Y., **Köttgen A**. Genetic studies of paired metabolomes reveal enzymatic and transport processes at the interface of plasma and urine. *Nat Genet*, 55(6):995-1008 (2023).
3. Schlosser P, Li Y, Sekula P, Raffler J, Grundner-Culemann F, Pietzner M, Cheng Y, Wuttke M, Steinbrenner I, Schultheiss UT, Kotsis F, Kacprowski T, Forer L, Hausknecht B, Ekici AB, Nauck M, Völker U; GCKD Investigators, Walz G, Oefner PJ, Kronenberg F, Mohny RP, Köttgen M, Suhre K, Eckardt KU, Kastenmüller G, **Köttgen A** (2020) Genetic Studies of Urinary Metabolites Illuminate Mechanisms of Detoxification and Excretion in Humans. *Nat Genet*, 52(2):167-176
4. Tin A, Marten J, Halperin Kuhns VL, Li Y, Wuttke M, Kirsten H, ..., Hung AM, Teumer A, Pattaro C, Woodward OM, Vitart V, **Köttgen A** (2019) Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels. *Nat Genet*, 51(10):1459-1474
5. Wuttke M, Li Y, Li M, Sieber KB, Feitosa MF, Gorski M, ..., Heid IM, Scholz M, Teumer A, **Köttgen A***, Pattaro C* (2019) A catalogue of genetic targets for kidney function from analyses of a million individuals. *Nat Genet*, 51(6):957-972
6. **Köttgen A**, Albrecht E, Teumer A, Vitart V, Krumsiek J, ..., Caulfield M, Bochud M, Gieger C (2013) Genome-wide association analyses identify 18 new loci associated with serum urate concentrations. *Nat Genet*, 45(2):145-154
7. Suhre K, Shin SY, Petersen AK, Mohny RP, Meredith D, Wagele B, Altmaier E, Deloukas P, Erdmann J, Grundberg E, Hammond CJ, de Angelis MH, Kastenmuller G, **Köttgen A**, Kronenberg F, Mangino M, Meisinger C, Meitinger T, Mewes HW, Milburn MV, Prehn C, Raffler J, Ried JS, Romisch-Margl W, Samani NJ, Small KS, Wichmann HE, Zhai G, Illig T, Spector TD, Adamski J, Soranzo N, Gieger C (2011) Human metabolic individuality in biomedical and pharmaceutical research. *Nature*, 477(7362):54-60
8. **Köttgen A**, Pattaro C, Boger CA, Fuchsberger C, ..., Kao WH, Heid IM, Fox CS (2010) New loci associated with kidney function and chronic kidney disease. *Nat Genet*, 42(5):376-384
9. Woodward OM*, **Köttgen A***, Coresh J, Boerwinkle E, Guggino WB, Köttgen M (2009) Identification of a novel urate transporter, ABCG2, with a common functional polymorphism causing gout. *Proc Natl Acad Sci U S A*. 106(25):10338-42
10. **Köttgen A**, Glazer NL, Dehghan A, Hwang SJ, ..., Witteman JC, Coresh J, Shlipak MG, Fox CS (2009). Multiple loci associated with indices of renal function and chronic kidney disease. *Nat Genet*, 41(6):712-717.