Name Anna Köttgen

Institution: Institute of Genetic Epidemiology, Medical Center – University of Freiburg
Contact: Phone: +49 (0)761 270-78050; Email: anna.koettgen@uniklinik-freiburg.de
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, Mohney 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, Mohney 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.