

Short CV - Anna Köttgen

General Information

Name: Anna Köttgen, M.D., M.P.H.
Address: Institute of Genetic Epidemiology
Medical Center - University of Freiburg
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79106 Freiburg, Germany
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University Training and Degrees

2005 - 2006 Studies of Public Health (M.P.H.), Johns Hopkins Bloomberg School of Public Health, Baltimore, USA; Advisor: Dr. Josef Coresh
1994 - 2001 Studies of Human Medicine (M.D.), University of Freiburg

Advanced Professional Qualifications

2011 Habilitation, Experimental Medicine, University of Freiburg; Mentor: Dr. Gerd Walz
2006 Master of Public Health (M.P.H.), Johns Hopkins Bloomberg School of Public Health, Baltimore, USA, (J. Coresh, W.H.L. Kao)
2002 Doctoral degree in medicine (Dr. med.), University of Freiburg; Advisor: Dr. R. Greger

Postgraduate Professional Career

2017 - present Director, Institute of Genetic Epidemiology, University of Freiburg
2016 - present Heisenberg Professor of Genetic Epidemiology, University of Freiburg
2016 - present Co-Director, International Chronic Kidney Disease Genetics (CKDGen) Consortium
2010 - 2015 Emmy Noether Group Leader, University of Freiburg, Dept. of Medicine IV
2009 - present Professor - Adjunct, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA
2009 - present Study Site Co-Director Freiburg, German Chronic Kidney Disease Study
2008 - 2009 Assistant Scientist, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA
2006 - 2008 Postdoctoral Research Fellow, The German Research Foundation, Department of Epidemiology, Johns Hopkins University, Baltimore, USA

Awards and Memberships

2017 CHARGE Consortium Golden Tiger Award for Group Leadership
2017 Franz Volhard Prize of the German Society of Nephrology
2013 Offer: Chair of Epidemiology, Ludwigs-Maximilians University Munich und UNIKA-T Augsburg, Germany.
2011 Nils Alwall Prize of the German Society of Nephrology
2010 Cozzarelli Prize, National Academy of Sciences, USA
2009 Offer: Assistant Professor (tenure track), Depts. of Epidemiology/Biostatistics and Medicine, Case Western Reserve University, Cleveland, USA.
2009 Jeremiah and Rose Stamler Research Award, American Heart Association
2009 Granted Patent "Modulation of ABCG2-mediated transport to treat hyperuricemia and gout" # 61/159,154 filed on March 11, 2009
1998 - 2001 German National Academic Foundation Scholar (Studienstiftung des deutschen Volkes)

Most Significant Publications (*shared corresponding author)

1. Schlosser P, Li Y, Sekula P, ..., **Köttgen A**. Genetic Studies of Urinary Metabolites Illuminate Mechanisms of Detoxification and Excretion in Humans. *Nat Genet* doi: 10.1038/s41588-019-0567-8. [Epub ahead of print] (2020).
2. 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**. Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels. *Nat Genet*. 51(10):1459-1474 (2019).
3. Teumer A, Li Y, Ghasemi S, Prins BP, Wuttke M, Hermle T, ..., Heid IM, Scholz M, Butterworth AS, Hung AM, Pattaro C, **Köttgen A**. Genome-wide association meta-analyses and fine-mapping elucidate pathways influencing albuminuria. *Nat Commun*. 10(1):4130 (2019).
4. Wuttke M, Li Y, Li M, Sieber KB, Feitosa MF, Gorski M, ..., Heid IM, Scholz M, Teumer A, **Köttgen A***, and Pattaro C. A catalogue of molecular targets for kidney function from genetic analyses of a million individuals. *Nat Genet* 51(6):957-972 (2019).
5. Tin A, Li Y, Brody JA, Nutile T, Chu AY, Huffman JE, Yang Q, Chen MH, Robinson-Cohen C, Macé A, Liu J, Demirkan A, Sorice R, Sedaghat S, Swen M, Yu B, Ghasemi S, Teumer A, Vollenweider P, Ciullo M, Li M, Uitterlinden AG, Kraaij R, Amin N, van Rooij J, Kutalik Z, Dehghan A, McKnight B, van Duijn CM, Morrison A, Psaty BM, Boerwinkle E, Fox CS, Woodward OM, and **Köttgen A**. Large-scale whole-exome sequencing association studies identify rare functional variants influencing serum urate levels. *Nat Commun* 9, 4228 (2018).
6. Chu AY, Tin A, Schlosser P, Ko YA, Qiu C, Yao C, Joehanes R, Grams ME, Liang L, Gluck CA, Liu C, Coresh J, Hwang SJ, Levy D, Boerwinkle E, Pankow JS, Yang Q, Fornage M, Fox CS, Susztak K, and **Köttgen A**. Epigenome-wide association studies identify DNA methylation associated with kidney function. *Nat Commun* 8, 1286 (2017).
7. **Köttgen A**, Albrecht E, Teumer A, Vitart V, Krumsiek J, Hundertmark C, ..., Caulfield M, Bochud M, and Gieger C. Genome-wide association analyses identify 18 new loci associated with serum urate concentrations. *Nat Genet* 45, 145-154 (2013).
8. Suhre K, Shin SY, Petersen AK, Mohny RP, Meredith D, Wagle 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, and Gieger C. Human metabolic individuality in biomedical and pharmaceutical research. *Nature* 477, 54-60 (2011).
9. **Köttgen A**, Pattaro C, Boger CA, Fuchsberger C, Olden M, Glazer NL, ..., Kao WH, Heid IM, and Fox CS. New loci associated with kidney function and chronic kidney disease. *Nat Genet* 42, 376-384 (2010).
10. **Köttgen A**, Glazer NL, Dehghan A, Hwang SJ, Katz R, Li M, Yang Q, Gudnason V, Launer LJ, Harris TB, Smith AV, Arking DE, Astor BC, Boerwinkle E, Ehret GB, Ruczinski I, Scharpf RB, Chen YD, de Boer IH, Haritunians T, Lumley T, Sarnak M, Siscovick D, Benjamin EJ, Levy D, Upadhyay A, Aulchenko YS, Hofman A, Rivadeneira F, Uitterlinden AG, van Duijn CM, Chasman DI, Pare G, Ridker PM, Kao WH, Witteman JC, Coresh J, Shlipak MG, and Fox CS. Multiple loci associated with indices of renal function and chronic kidney disease. *Nat Genet* 41, 712-717 (2009).