

List of Publications Henriette Meyer zu Schwabedissen

Original Articles

2019

1. *Optimization-by-design of hepatotropic lipid nanoparticles targeting the sodium-taurocholate cotransporting polypeptide.* Witzigmann D, Uhl P, Sieber S, Kaufman C, Einfalt T, Schöneweis K, Grossen P, Buck J, Ni Y, Schenk SH, Hussner J, Meyer zu Schwabedissen HE, Québatte G, Mier W, Urban S, Huwyler J. *Elife.* 2019 8. pii: e42276. doi: 10.7554/eLife.42276.
2. *OATP1B3-1B7 (LST-3TM12) Is a Drug Transporter That Affects Endoplasmic Reticulum Access and the Metabolism of Ezetimibe.* Malagnino V, Duthaler U, Seibert I, Krähenbühl S, Meyer zu Schwabedissen HE. *Mol Pharmacol.* 2019;96(2):128-137.
3. *Unravelling the Antiproliferative Activity of 1,2,5-oxadiazole Derivatives* Ehrensam D, Porta F, Mori M, Meyer zu Schwabedissen HE, Dalla Via L, Garcia-Argaez AN, Basile L, Meneghetti F, Villa S, Gelain A. *Anticancer Res.* 2019;39(7):3453-3461.
4. *The nuclear receptors PXR and LXR are regulators of the scaffold protein PDZK1.* Ferreira C, Meyer R, Meyer zu Schwabedissen HE. *Biochim Biophys Acta Gene Regul Mech.* 2019;1862(4):447-456
5. *Role of serotonin transporter and receptor gene variations in the acute effects of MDMA in healthy subjects.* Vizeli P, Meyer zu Schwabedissen HE, Liechti ME. *ACS Chem Neurosci.* 2019;10(7):3120-3131
6. *Hyperforin induced activation of the Pregnane X Receptor is influenced by the Organic Anion Transporting Polypeptide 2B1 (OATP2B1).* Schaefer AM, Potterat O, Seibert I, Fertig O, Meyer zu Schwabedissen HE. *Mol Pharmacol.* 2019;95(3):313-323.
7. *Population pharmacokinetics of oral ivermectin in venous plasma and dried blood spots in healthy volunteers.* Duthaler U, Suenderhauf C, Karlsson MO, Hussner J, Meyer zu Schwabedissen HE, Krähenbühl S, Hammann F. *Br J Clin Pharmacol.* 2019;85(3):626-633.
8. *Pharmacokinetics of oxycodone/naloxone and its metabolites in patients with end-stage renal disease during and between haemodialysis sessions.* Leuppi-Taegtmeyer A, Duthaler U, Hammann F, Schmid Y, Dickenmann M, Amico P, Jehle AW, Kalbermatter S, Lenherr C, Meyer zu Schwabedissen HE, Haschke M, Liechti ME, Krähenbühl S. *Nephrol Dial Transplant.* 2019;34(4):692-702

2018

9. *Establishment and Validation of Competitive Counterflow as a Method to Detect Substrates of the Organic Anion Transporting Polypeptide 2B1.* Schäfer AM, Bock T, Meyer zu Schwabedissen HE. *Mol Pharm.* 2018; 15(12):5501-5513
10. *Genome-wide analyses identify a role for SLC17A4 and AADAT in thyroid hormone regulation.* Teumer A, Chaker L, Groeneweg S, Li Y, Di Munno C, Barbieri C, Schultheiss UT, Traglia M, Ahluwalia TS, Akiyama M, Appel EVR, Arking DE, Arnold A, Astrup A, Beekman M, Beilby JP, Bekaert S, Boerwinkle E, Brown SJ, De Buyzere M, Campbell PJ, Ceresini G, Cerqueira C, Cucca F, Deary IJ, Deelen J, Eckardt KU, Ekici AB, Eriksson JG, Ferrucci L, Fiers T, Fiorillo E, Ford I, Fox CS, Fuchsberger C, Galesloot TE, Gieger C, Gögele M, De Grandi A, Grarup N, Greiser KH, Haljas K, Hansen T, Harris SE, van Heemst D, den Heijer M, Hicks AA, den Hollander W, Homuth G, Hui J, Ikram MA, Ittermann T, Jensen RA, Jing J, Jukema JW, Kajantie E, Kamatani Y, Kasbohm E, Kaufman JM, Kiemeny LA, Kloppenburg M, Kronenberg F, Kubo M, Lahti J, Lapauw B, Li S, Liewald DCM; Lifelines Cohort Study, Lim EM, Linneberg A, Marina M, Mascalzoni D, Matsuda K, Medenwald D, Meisinger C, Meulenbelt I, De Meyer T, Meyer zu Schwabedissen HE, Mikolajczyk R, Moed M, Netea-Maier RT, Nolte IM, Okada Y, Pala M, Pattaro C, Pedersen O, Petersmann A, Porcu E, Postmus I, Pramstaller PP, Psaty BM, Ramos YFM, Rawal R, Redmond P, Richards JB, Rietzschel ER, Rivadeneira F, Roef G, Rotter JI, Sala CF, Schlessinger D, Selvin E, Slagboom PE, Soranzo N, Sørensen TIA, Spector TD, Starr JM, Stott DJ, Taes Y, Taliun D, Tanaka T, Thuesen B, Tiller D, Toniolo D, Uitterlinden AG, Visser WE, Walsh JP, Wilson SG, Wolffenbuttel BHR, Yang Q, Zheng HF, Cappola A, Peeters RP, Naitza S, Völzke H, Sanna S, Köttgen A, Visser TJ, Medici M. *Nat Commun.* 2018; 9(1):4455.

11. *Synthesis and Characterization of PDMS-PMOXA-Based Polymersomes Sensitive to MMP-9 for Application in Breast Cancer.* Porta F, Ehram D, Lengerke C, Meyer zu Schwabedissen HE. *Mol Pharm.* 2018; 15(11):4884-4897.
12. *The scaffold protein PDZK1 modulates expression and function of the organic anion transporting polypeptide 2B1.* Ferreira C, Hagen P, Stern M, Hussner J, Zimmermann U, Grube M, Meyer zu Schwabedissen HE. *Eur J Pharm Sci.* 2018;120:181-190
13. *Thyroid hormones are transport substrates and transcriptional regulators of Organic Anion Transporting Polypeptide 2B1.* Meyer zu Schwabedissen HE, Ferreira C, Schaefer AM, Oufir M, Seibert I, Hamburger M, Tirona RG. *Mol Pharmacol.* 2018; 94(1):700-712
14. *Childhood Trauma and Functional Variants of 5-HTTLPR Are Independently Associated with Alexithymia in 5,283 Subjects from the General Population.* Terock J, Van der Auwera S, Janowitz D, Homuth G, Hannemann A, Schmidt CO, Meyer Zu Schwabedissen H, Freyberger HJ, Grabe HJ. *Psychother Psychosom.* 2018; 87(1):58-61
15. *LST-3TM12 is a member of the OATP1B family and a functional transporter.* Malagnino V, Hussner J, Seibert I, Stolzenburg A, Sager CP, Meyer Zu Schwabedissen HE. *Biochem Pharmacol.* 2018; 148:75-87.
16. *No major role of norepinephrine transporter gene variations in the cardiostimulant effects of MDMA.* Vizeli P, Meyer zu Schwabedissen HE, Liechti ME. *Eur J Clin Pharmacol.* 2018; 74(3):275-283
17. *PDZ domain containing protein 1 (PDZK1), a modulator of membrane proteins, is regulated by the nuclear receptor THR β .* Ferreira C, Prestin K, Hussner J, Zimmermann U, Meyer zu Schwabedissen HE. *Mol Cell Endocrinol.* 2018; 461:215-225.
18. *Collaborative meta-analysis finds no evidence of a strong interaction between stress and 5-HTTLPR genotype contributing to the development of depression.* Cluverhouse RC et al. *Mol Psychiatry.* 2018; 23(1):133-142.

2017

19. *Functional assessment of genetic variants located in the promoter of SHP1 (NR0B2).* Prestin K, Olbert M, Hussner J, Völzke H, Meyer zu Schwabedissen HE. *Pharmacogenet Genomics.* 2017; 27(11):410-415.
20. *Doxorubicin enhances oxysterol levels resulting in a LXR-mediated upregulation of cardiac cholesterol transporters.* Monzel JV, Budde T, Meyer zu Schwabedissen HE, Schwebe M, Bien-Möller S, Lütjohann D, Kroemer HK, Jedlitschky G, Grube M. *Biochem Pharmacol.* 2017; 144:108-119.
21. *Regulation of PDZ domain containing 1 (PDZK1) Expression by Hepatocyte Nuclear Factor 1 alpha (HNF1 α) in Human Kidney.* Prestin K, Hussner J, Ferreira C, Seibert I, Breitung V, Zimmermann U, Meyer Zu Schwabedissen HE. *Am J Physiol Renal Physiol.* 2017; 313(4): F973-F983.
22. *Characterization of OATP1B3 and OATP2B1 transporter expression in the islet of the adult human pancreas.* Kim M, Deacon P, Tirona RG, Kim RB, Pin CL, Meyer zu Schwabedissen HE, Wang R, Schwarz UI. *Histochem Cell Biol.* 2017; 148(4): 345-357.
23. *Pharmacogenetics of ecstasy: CYP1A2, CYP2C19, and CYP2B6 polymorphisms moderate pharmacokinetics of MDMA in healthy subjects.* Vizeli P, Schmid Y, Prestin K, Meyer zu Schwabedissen HE, Liechti ME. *Eur Neuropsychopharmacology* 2017;27(3):232-238.
24. *Genetic loci associated with heart rate variability and their effects on cardiac disease risk.* Nolte IM et al. *Nature Communications* 2017; 8:15805.

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25. *Modulation of Expression of the Nuclear Receptor NR0B2 (Small Heterodimer Partner 1 SHP1) and its Impact on Cell Proliferation of Renal Carcinoma Cells.* Prestin K, Olbert M, Hussner J, Isenegger T, Gliesche DG, Böttcher K, Zimmermann U, Meyer zu Schwabedissen HE. *OncoTargets and Therapy.* 2016; 9:4867-4878.
26. *CYP2D6 function moderates the pharmacokinetics and pharmacodynamics of 3,4-methylenedioxymethamphetamine in a controlled study in healthy individuals.* Schmid Y, Vizeli P, Hysek CM, Prestin K, Meyer zu Schwabedissen HE, Liechti ME. *Pharmacogenetics Genomics.* 2016; 26(8):397-401.
27. *Secreted Matrix Metalloproteinase-9 of proliferating smooth muscle cells as a trigger for drug release from stent surface polymers in coronary arteries.* Gliesche DG, Hussner J, Witzigmann D, Porta F, Glatter T, Schmidt A, Huwyler J, Meyer zu Schwabedissen HE. *Molecular Pharmaceutics.* 2016; 13(7):2290-2300.

28. *Pimecrolimus increases the expression of interferon-inducible genes that modulate human coronary artery cells proliferation.* Hussner J, Sünwoltdt J, Seibert I, Gliesche DG, Meyer zu Schwabedissen HE. *European Journal of Pharmacology.* 2016; 784:137-146.
29. *Effect of the interaction between childhood abuse and rs1360780 of the FKBP5 gene on gray matter volume in a general population sample.* Grabe HJ, Wittfeld K, Van der Auwera S, Janowitz D, Hegenscheid K, Habes M, Homuth G, Barnow S, John U, Nauck M, Völzke H, Meyer zu Schwabedissen H, Freyberger HJ, Hosten N. *Human Brain Mapping.* 2016; 37(4):1602-13.
30. *Tailored surface design of biodegradable endovascular implants by functionalization of poly (L-lactide) with elastin-like proteins.* Petersen S, Gliesche DG, Kurtbay G, Begunk R, Boeck M, Hopf V, Kroemer HK, Schmitz KP, Meyer zu Schwabedissen HE, Sternberg K. *Journal of Biomedical Engineering and Informatics* 2016; 2(1):52-64.

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31. *The Pim1 kinase is up-regulated in Glioblastoma multiforme and mediates tumor cell survival.* Herzog S, Fink MA, Weitmann K, Friedel C, Hadlich S, Langner S, Kindermann K, Holm T, Böhm A, Eskilsson E, Miletic H, Hildner M, Fritsch M, Vogelgesang S, Havemann C, Ritter CA, Meyer zu Schwabedissen HE, Rauch BH, Hoffmann W, Kroemer HK, Schroeder H, Bien-Möller S. *Journal of Neuro-Oncology.* 2015; 17(2):223-42.
32. *Function impairing polymorphisms of the hepatic uptake transporter SLCO1B1 modify therapeutic efficacy of statins in a population based cohort.* Meyer zu Schwabedissen HE, Albers M, Baumeister SE, Rimbach C, Nauck M, Wallaschofski H, Siegmund W, Völzke H, Kroemer HK. *Pharmacogenetics and Genomics* 2015; 25(1):8-18.
33. *Expression of OATP2B1 as determinant of drug effects in the microcompartment of the coronary artery.* Hussner J, Begunk R, Boettcher K, Gliesche DG, Prestin K, Meyer zu Schwabedissen HE. *Vascular Pharmacology.* 2015; 72:25-34.

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34. *Interaction among childhood trauma and functional polymorphisms in the serotonin pathway moderate the risk of depressive disorders.* Van der Auwera S, Janowitz D, Schulz A, Homuth G, Nauck M, Völzke H, Rose M, Meyer zu Schwabedissen H, Freyberger HJ, Grabe HJ. *European Archives of Psychiatry and Clinical Neuroscience.* 2014; 264 Suppl 1:S45-54.
35. *Creatine kinase elevation caused by a combination of fluvastatin and telmisartan in a patient heterozygous for the CYP2C9*3 and ABCC2 -24C > T variants: a case report.* Meyer zu Schwabedissen HE, Siegmund W, Kroemer HK, Rollnik JD. *BMC Research Notes.* 2014; 7:688.
36. *Transcriptional Regulation of the Urate Transportosome Member SLC2A9 by Nuclear Receptor HNF4α.* Hentschel K, Wolf S, Feldtmann R, Hussner J, Geissler I, Rimbach C, Zimmermann U, Meyer zu Schwabedissen HE. *American Journal of Physiology - Renal Physiology.* 2014; 307(9): F1041-51.
37. *Identification of novel genetic Loci associated with thyroid peroxidase antibodies and clinical thyroid disease.* Medici M, Porcu E, Pistis G, Teumer A, Brown SJ, Jensen RA, Rawal R, Roef GL, Plantinga TS, Vermeulen SH, Lahti J, Simmonds MJ, Husemoen LL, Freathy RM, Shields BM, Pietzner D, Nagy R, Broer L, Chaker L, Korevaar TI, Plia MG, Sala C, Völker U, Richards JB, Sweep FC, Gieger C, Corre T, Kajantie E, Thuesen B, Taes YE, Visser WE, Hattersley AT, Kratzsch J, Hamilton A, Li W, Homuth G, Lobina M, Mariotti S, Soranzo N, Cocca M, Nauck M, Spielhagen C, Ross A, Arnold A, van de Bunt M, Liyanarachchi S, Heier M, Grabe HJ, Masciullo C, Galesloot TE, Lim EM, Reischl E, Leedman PJ, Lai S, Delitala A, Bremner AP, Philips DI, Beilby JP, Mulas A, Vocale M, Abecasis G, Forsen T, James A, Widen E, Hui J, Prokisch H, Rietzschel EE, Palotie A, Feddema P, Fletcher SJ, Schramm K, Rotter JJ, Kluttig A, Radke D, Traglia M, Surdulescu GL, He H, Franklyn JA, Tiller D, Vaidya B, de Meyer T, Jørgensen T, Eriksson JG, O'Leary PC, Wichmann E, Hermus AR, Psaty BM, Ittermann T, Hofman A, Bosi E, Schlessinger D, Wallaschofski H, Pirastu N, Aulchenko YS, de la Chapelle A, Netea-Maier RT, Gough SC, Meyer Zu Schwabedissen HE, Frayling TM, Kaufman JM, Linneberg A, Rääkkönen K, Smit JW, Kiemeny LA, Rivadeneira F, Uitterlinden AG, Walsh JP, Meisinger C, den Heijer M, Visser TJ, Spector TD, Wilson SG, Völzke H, Cappola A, Toniolo D, Sanna S, Naitza S, Peeters RP. *PLoS Genetics.* 2014; 10(2).

38. *Cohort profile: Greifswald Approach to Individualized Medicine (GANI_MED)*. Grabe HJ, Assel H, Bahls T, Dörr M, Endlich K, Endlich N, Erdmann P, Ewert R, Felix S, Fiene B, Fischer T, Flessa S, Nele Friedrich N, Gadebusch-Bondio M, Gesell Salazar M, Hammer E, Haring R, Havemann C, Hecker M, Hoffmann W, Holtfreter B, Kacprowski T, Klein K, Kocher T, Kock H, Krafczyk J, Kuhn J, Langanke M, Lendeckel U, Lerch MM, Lieb W, Lorbeer R, Mayerle J, Meissner K, Meyer zu Schwabedissen HE, Nauck M, Ott K, Rathmann W, Rettig R, Richardt C, Saljé K, Schminke U, Schulz A, Schwab M, Siegmund W, Stracke S, Suhre K, Ueffing M, Ungerer S, Völker U, Völzke H, Wallaschofski H, Werner V, Zygmunt MT and Kroemer HK. *Journal of Translational Medicine*. 2014; 12:144.
39. *Genetic association study of QT interval highlights role for calcium signaling pathways in myocardial repolarization*. Arking DE, Pulit SL, Crotti L, van der Harst P, Munroe PB, Koopmann TT, Sotoodehnia N, Rossin EJ, Morley M, Wang X, Johnson AD, Lundby A, Gudbjartsson DF, Noseworthy PA, Eijgelsheim M, Bradford Y, Tarasov KV, Dörr M, Müller-Nurasyid M, Lahtinen AM, Nolte IM, Smith AV, Bis JC, Isaacs A, Newhouse SJ, Evans DS, Post WS, Waggott D, Lyytikäinen LP, Hicks AA, Eisele L, Ellinghaus D, Hayward C, Navarro P, Ulivi S, Tanaka T, Tester DJ, Chatel S, Gustafsson S, Kumari M, Morris RW, Naluai AT, Padmanabhan S, Kluttig A, Strohmer B, Panayiotou AG, Torres M, Knoflach M, Hubacek JA, Slowikowski K, Raychaudhuri S, Kumar RD, Harris TB, Launer LJ, Shuldiner AR, Alonso A, Bader JS, Ehret G, Huang H, Kao WH, Strait JB, Macfarlane PW, Brown M, Caulfield MJ, Samani NJ, Kronenberg F, Willeit J; CARE Consortium; COGENT Consortium, Smith JG, Greiser KH, Meyer zu Schwabedissen H, Werdan K, Carella M, Zelante L, Heckbert SR, Psaty BM, Rotter JI, Kolcic I, Polašek O, Wright AF, Griffin M, Daly MJ; DCCT/EDIC, Arnar DO, Hólm H, Thorsteinsdóttir U; eMERGE Consortium, Denny JC, Roden DM, Zuvich RL, Emilsson V, Plump AS, Larson MG, O'Donnell CJ, Yin X, Bobbo M, D'Adamo AP, Iorio A, Sinagra G, Carracedo A, Cummings SR, Nalls MA, Jula A, Kontula KK, Marjamaa A, Oikarinen L, Perola M, Porthan K, Erbel R, Hoffmann P, Jöckel KH, Kälsch H, Nöthen MM; HRGEN Consortium, den Hoed M, Loos RJ, Thelle DS, Gieger C, Meitinger T, Perz S, Peters A, Prucha H, Sinner MF, Waldenberger M, de Boer RA, Franke L, van der Vleuten PA, Beckmann BM, Martens E, Bardai A, Hofman N, Wilde AA, Behr ER, Dalageorgou C, Giudicessi JR, Medeiros-Domingo A, Barc J, Kyndt F, Probst V, Ghidoni A, Insolia R, Hamilton RM, Scherer SW, Brandimarto J, Margulies K, Moravec CE, Fabiola, Fuchsberger C, O'Connell JR, Lee WK, Watt GC, Campbell H, Wild SH, El Mokhtari NE, Frey N, Asselbergs FW, Leach IM, Navis G, van den Berg MP, van Veldhuisen DJ, Kellis M, Krijthe BP, Franco OH, Hofman A, Kors JA, Uitterlinden AG, Witteman JC, Kedenko L, Lamina C, Oostra BA, Abecasis GR, Lakatta EG, Mulas A, Orrú M, Schlessinger D, Uda M, Markus MR, Völker U, Snieder H, Spector TD, Arnlöv J, Lind L, Sundström J, Syvänen AC, Kivimäki M, Kähönen M, Mononen N, Raitakari OT, Viikari JS, Adamkova V, Kiechl S, Brion M, Nicolaides AN, Paulweber B, Haerting J, Dominiczak AF, Nyberg F, Whincup PH, Hingorani AD, Schott JJ, Bezzina CR, Ingelsson E, Ferrucci L, Gasparini P, Wilson JF, Rudan I, Franke A, Mühleisen TW, Pramstaller PP, Lehtimäki TJ, Paterson AD, Parsa A, Liu Y, van Duijn CM, Siscovick DS, Gudnason V, Jamshidi Y, Salomaa V, Felix SB, Sanna S, Ritchie MD, Stricker BH, Stefansson K, Boyer LA, Cappola TP, Olsen JV, Lage K, Schwartz PJ, Käb S, Chakravarti A, Ackerman MJ, Pfeufer A, de Bakker PI, Newton-Cheh C. *Nature Genetics*. 2014; 46(8):826-36.
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41. *Cell-Specific Expression of Uptake Transporters-A Potential Approach for Cardiovascular Drug Delivery Devices*. Meyer zu Schwabedissen HE, Begunk R, Hussner J, Juhnke BO, Gliesche D, Böttcher K, Sternberg K, Schmitz KP, Kroemer HK. *Molecular Pharmaceutics*. 2014; 11(3):665-72.
42. *OATP1B3 is expressed in pancreatic β -islet cells and enhances the insulinotropic effect of the sulfonylurea derivative glibenclamide*. Meyer Zu Schwabedissen HE, Boettcher K, Steiner T, Schwarz UI, Keiser M, Kroemer HK, Siegmund W. *Diabetes*. 2014; 63(2):775-84.
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46. *Variants of Toll-like receptor 4 predict cardiac recovery in patients with dilated cardiomyopathy.* Riad A, Meyer zu Schwabedissen H, Weitmann K, Herda LR, Dörr M, Empen K, Kieback A, Hummel A, Reinthaler M, Grube M, Klingel K, Nauck M, Kandolf R, Hoffmann W, Kroemer HK, Felix SB. *Journal of Biological Chemistry.* 2012; 287(32):27236-43.
47. *Compartment-Specific Gene Regulation of the CAR Inducer Efavirenz In Vivo.* Meyer Zu Schwabedissen HE, Oswald S, Bresser C, Nassif A, Modess C, Desta Z, Ogburn ET, Marinova M, Lütjohann D, Spielhagen C, Nauck M, Kroemer HK, Siegmund W. *Clinical Pharmacology and Therapeutics.* 2012; 92(1):103-11.
48. *Meta-analysis of two genome-wide association studies identifies four genetic loci associated with thyroid function.* Rawal R, Teumer A, Völzke H, Wallaschofski H, Ittermann T, Asvold BO, Bjørø T, Greiser KH, Tiller D, Werdan K, Meyer Zu Schwabedissen HE, Doering A, Illig T, Gieger C, Meisinger C, Homuth G. *Human Molecular Genetics.* 2012; 21(14):3275-82.
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