



DZD Publikationen 2019

- Aatsinki, S.M., Elkhwanky, M.S., Kumm, O., Karpale, M., Buler, M., Viitala, P., Rinne, V., Mutikainen, M., Tavi, P., Franko, A., Wiesner, R.J., Chambers, K.T., Finck, B.N., Hakkola, J., 2019. Fasting-Induced Transcription Factors Repress Vitamin D Bioactivation, a Mechanism for Vitamin D Deficiency in Diabetes. *Diabetes* 68, 918-931.
- Abe, K., Cox, A., Takamatsu, N., Velez, G., Laxer, R.M., Tse, S.M.L., Mahajan, V.B., Bassuk, A.G., Fuchs, H., Ferguson, P.J., Hrabe de Angelis, M., 2019. Gain-of-function mutations in a member of the Src family kinases cause autoinflammatory bone disease in mice and humans. *Proc Natl Acad Sci U S A* 116, 11872-11877.
- Aichner, S., Haile, A., Hoffmann, V., Olliges, E., Tschop, M.H., Meissner, K., 2019. The Role of Tactile Stimulation for Expectation, Perceived Treatment Assignment and the Placebo Effect in an Experimental Nausea Paradigm. *Front Neurosci* 13, 1212.
- Albrecht, W., Kappenberg, F., Brecklinghaus, T., Stoeber, R., Marchan, R., Zhang, M., Ebbert, K., Kirschner, H., Grinberg, M., Leist, M., Moritz, W., Cadenas, C., Ghallab, A., Reinders, J., Vartak, N., van Thriel, C., Golka, K., Tolosa, L., Castell, J.V., Damm, G., Seehofer, D., Lampen, A., Braeuning, A., Buhrke, T., Behr, A.C., Oberemm, A., Gu, X., Kittana, N., van de Water, B., Kreiling, R., Fayyaz, S., van Aerts, L., Smedsrod, B., Ellinger-Ziegelbauer, H., Steger-Hartmann, T., Gundert-Remy, U., Zeigerer, A., Ullrich, A., Runge, D., Lee, S.M.L., Schiergens, T.S., Kuepfer, L., Aguayo-Orozco, A., Sachinidis, A., Edlund, K., Gardner, I., Rahnenfuhrer, J., Hengstler, J.G., 2019. Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. *Arch Toxicol* 93, 1609-1637.
- Aleksandrova, K., Drogan, D., Weikert, C., Schulze, M.B., Fritsche, A., Boeing, H., Pischon, T., 2019. Fatty Acid-Binding Protein 4 and Risk of Type 2 Diabetes, Myocardial Infarction, and Stroke: A Prospective Cohort Study. *J Clin Endocrinol Metab* 104, 5991-6002.
- Alsalam, M., Estacion, M., Almomani, R., Gerrits, M.M., Bonhof, G.J., Ziegler, D., Malik, R., Ferdousi, M., Lauria, G., Merkies, I.S., Faber, C.G., Dib-Hajj, S., Waxman, S.G., Propane Study, G., 2019. A gain-of-function sodium channel beta2-subunit mutation in painful diabetic neuropathy. *Mol Pain* 15, 1744806919849802.
- Angelini, G., Castagneto Gisse, L., Del Corpo, G., Giordano, C., Cerbelli, B., Severino, A., Manco, M., Basso, N., Birkenfeld, A.L., Bornstein, S.R., Genco, A., Mingrone, G., Casella, G., 2019. New insight into the mechanisms of ectopic fat deposition improvement after bariatric surgery. *Sci Rep* 9, 17315.
- Apostolopoulou, M., Roden, M., 2019. Authors' response to the commentary by Bonaventura and Montecucco on: 'Characterization of circulating leukocytes and correlation of leukocyte subsets with metabolic parameters 1 and 5 years after diabetes diagnosis'. *Acta Diabetol* 56, 125-126.
- Artati, A., Prehn, C., Adamski, J., 2019. LC-MS/MS-Based Metabolomics for Cell Cultures. *Methods Mol Biol* 1994, 119-130.
- Artunc, F., Haag, S., Friedrich, B., Mueller, C., Haring, H.U., Peter, A., 2019a. Performance of a novel high sensitivity cardiac troponin I assay in asymptomatic hemodialysis patients - evidence for sex-specific differences. *Clin Chem Lab Med* 57, 1261-1270.
- Artunc, F., Rueb, S., Thiel, K., Thiel, C., Linder, K., Baumann, D., Bunz, H., Muehlbacher, T., Mahling, M., Sayer, M., Petsch, M., Guthoff, M., Heyne, N., 2019b. Implementation of Urgent Start Peritoneal Dialysis Reduces Hemodialysis Catheter Use and Hospital Stay in Patients with Unplanned Dialysis Start. *Kidney Blood Press Res*, 1-9.
- Artunc, F., Worn, M., Schork, A., Bohnert, B.N., 2019c. Proteasuria-The impact of active urinary proteases on sodium retention in nephrotic syndrome. *Acta Physiol (Oxf)* 225, e13249.
- Ashton, M.P., Eugster, A., Dietz, S., Loebel, D., Lindner, A., Kuehn, D., Taranko, A.E., Heschel, B., Gavrigan, A., Ziegler, A.G., Aringer, M., Bonifacio, E., 2019. Association of Dendritic Cell Signatures With Autoimmune Inflammation Revealed by Single-Cell Profiling. *Arthritis Rheumatol* 71, 817-828.
- Asllanaj, E., Bano, A., Glisic, M., Jaspers, L., Ikram, M.A., Laven, J.S.E., Volzke, H., Muka, T., Franco, O.H., 2019. Age at natural menopause and life expectancy with and without type 2 diabetes. *Menopause* 26, 387-394.



- Auzanneau, M., Rosenbauer, J., Icks, A., Karges, B., Neu, A., Ziegler, R., Marg, W., Kapellen, T., Holterhus, P.M., Holl, R.W., 2019. Hospitalization in Pediatric Diabetes: A Nationwide Analysis of all Admission Causes for Germany in 2015. *Exp Clin Endocrinol Diabetes*.
- Backman, M., Flenkenthaler, F., Blutke, A., Dahlhoff, M., Landstrom, E., Renner, S., Philippou-Massier, J., Krebs, S., Rathkolb, B., Prehn, C., Grzybek, M., Coskun, U., Rothe, M., Adamski, J., de Angelis, M.H., Wanke, R., Frohlich, T., Arnold, G.J., Blum, H., Wolf, E., 2019. Multi-omics insights into functional alterations of the liver in insulin-deficient diabetes mellitus. *Mol Metab* 26, 30-44.
- Baechle, C., Hoyer, A., Stahl-Pehe, A., Castillo, K., Toennies, T., Lindner, L.M.E., Reinauer, C., Holl, R.W., Kuss, O., Rosenbauer, J., 2019. Course of Disordered Eating Behavior in Young People With Early-Onset Type I Diabetes: Prevalence, Symptoms, and Transition Probabilities. *J Adolesc Health* 65, 681-689.
- Bakhti, M., Bastidas-Ponce, A., Lickert, H., 2019a. Sorting Out Fate Determination. *Dev Cell* 49, 1-3.
- Bakhti, M., Bottcher, A., Lickert, H., 2019b. Modelling the endocrine pancreas in health and disease. *Nat Rev Endocrinol* 15, 155-171.
- Bakhti, M., Scheibner, K., Tritschler, S., Bastidas-Ponce, A., Tarquis-Medina, M., Theis, F.J., Lickert, H., 2019c. Establishment of a high-resolution 3D modeling system for studying pancreatic epithelial cell biology in vitro. *Mol Metab* 30, 16-29.
- Ballester-Lopez, C., Conlon, T.M., Ertuz, Z., Greiffo, F.R., Irmeler, M., Verleden, S.E., Beckers, J., Fernandez, I.E., Eickelberg, O., Yildirim, A.O., 2019. The Notch ligand DNER regulates macrophage IFN γ release in chronic obstructive pulmonary disease. *EBioMedicine* 43, 562-575.
- Barovic, M., Distler, M., Schoniger, E., Radisch, N., Aust, D., Weitz, J., Ibberson, M., Schulte, A.M., Solimena, M., 2019. Metabolically phenotyped pancreatectomized patients as living donors for the study of islets in health and diabetes. *Mol Metab* 27S, S1-S6.
- Barupal, D.K., Baillie, R., Fan, S., Saykin, A.J., Meikle, P.J., Arnold, M., Nho, K., Fiehn, O., Kaddurah-Daouk, R., Alzheimer Disease Metabolomics, C., 2019. Sets of coregulated serum lipids are associated with Alzheimer's disease pathophysiology. *Alzheimers Dement (Amst)* 11, 619-627.
- Bastidas-Ponce, A., Tritschler, S., Dony, L., Scheibner, K., Tarquis-Medina, M., Salinno, C., Schirge, S., Burtscher, I., Bottcher, A., Theis, F.J., Lickert, H., Bakhti, M., 2019. Comprehensive single cell mRNA profiling reveals a detailed roadmap for pancreatic endocrinogenesis. *Development* 146.
- Baumann, P., Schriever, S.C., Kullmann, S., Zimprich, A., Feuchtinger, A., Amarie, O., Peter, A., Walch, A., Gailus-Durner, V., Fuchs, H., Hrabe de Angelis, M., Wurst, W., Tschop, M.H., Heni, M., Holter, S.M., Pfluger, P.T., 2019. Dusp8 affects hippocampal size and behavior in mice and humans. *Sci Rep* 9, 19483.
- Becker, M., Serr, I., Salb, V.K., Ott, V.B., Mengel, L., Bluher, M., Weigmann, B., Hauner, H., Tschop, M.H., Daniel, C., 2019. Short-term cold exposure supports human Treg induction in vivo. *Mol Metab* 28, 73-82.
- Bentley, A.R., Sung, Y.J., Brown, M.R., Winkler, T.W., Kraja, A.T., Ntalla, I., Schwander, K., Chasman, D.I., Lim, E., Deng, X., Guo, X., Liu, J., Lu, Y., Cheng, C.Y., Sim, X., Vojinovic, D., Huffman, J.E., Musani, S.K., Li, C., Feitosa, M.F., Richard, M.A., Noordam, R., Baker,, Zhu, X., Bierut, L.J., Gauderman, W.J., Rice, K., Munroe, P.B., Morrison, A.C., Rao, D.C., Rotimi, C.N., Cupples, L.A., 2019. Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. *Nat Genet* 51, 636-648.
- Biernatzki, L., Kuske, S., Genz, J., Ritschel, M., Stephan, A., Bachle, C., Droste, S., Grobosch, S., Ernstmann, N., Chernyak, N., Icks, A., 2019. Correction to: Information needs in people with diabetes mellitus: a systematic review. *Syst Rev* 8, 156.
- Bijkerk, R., Aleksinskaya, M.A., Duijs, J., Veth, J., Husen, B., Reiche, D., Prehn, C., Adamski, J., Rabelink, T.J., De Mey, J.G.R., van Zonneveld, A.J., 2019. Neutral endopeptidase inhibitors blunt kidney fibrosis by reducing myofibroblast formation. *Clin Sci (Lond)* 133, 239-252.



- Binder, E., Rohrer, T., Denzer, C., Marg, W., Ohlenschlager, U., Schenk-Huber, H., Schierloh, U., Skopnik, H., Frohlich-Reiterer, E.E., Holl, R.W., Prinz, N., 2019. Screening for coeliac disease in 1624 mainly asymptomatic children with type 1 diabetes: is genotyping for coeliac-specific human leucocyte antigen the right approach? *Arch Dis Child* 104, 354-359.
- Binger, K.J., Neukam, M., Tattikota, S.G., Qadri, F., Puchkov, D., Willmes, D.M., Wurmsee, S., Geisberger, S., Dechend, R., Raile, K., Kurth, T., Nguyen, G., Poy, M.N., Solimena, M., Muller, D.N., Birkenfeld, A.L., 2019. Atp6ap2 deletion causes extensive vacuolation that consumes the insulin content of pancreatic beta cells. *Proc Natl Acad Sci U S A* 116, 19983-19988.
- Birkebaek, N.H., Hermann, J.M., Hanberger, L., Charalampopoulos, D., Holl, R.W., Skrivarhaug, T., Aakesson, K., Warner, J.T., Drivvoll, A.K., Svensson, A.M., Stephenson, T., Hofer, S.E., Fredheim, S., Kummernes, S.J., Amin, R., Rami-Merhar, B., Johansen, A., Kapellen, T.M., Hilgard, D., Dahl-Jorgensen, K., Froehlich-Reiterer, E., Fritsch, M., Hanas, R., Svensson, J., 2019. Center Size and Glycemic Control: An International Study With 504 Centers From Seven Countries. *Diabetes Care* 42, e37-e39.
- Birkenfeld, A.L., Jordan, J., Dworak, M., Merkel, T., Burnstock, G., 2019. Myocardial metabolism in heart failure: Purinergic signalling and other metabolic concepts. *Pharmacol Ther* 194, 132-144.
- Bohnert, B.N., Daiminger, S., Worn, M., Sure, F., Staudner, T., Ilyaskin, A.V., Batbouta, F., Janessa, A., Schneider, J.C., Essigke, D., Kanse, S., Haerteis, S., Korbmacher, C., Artunc, F., 2019a. Urokinase-type plasminogen activator (uPA) is not essential for epithelial sodium channel (ENaC)-mediated sodium retention in experimental nephrotic syndrome. *Acta Physiol (Oxf)* 227, e13286.
- Bohnert, B.N., Dorffel, T., Daiminger, S., Calaminus, C., Aidone, S., Falkenau, A., Semrau, A., Le, M.J., Iglauer, F., Artunc, F., 2019b. Retrobulbar Sinus Injection of Doxorubicin is More Efficient Than Lateral Tail Vein Injection at Inducing Experimental Nephrotic Syndrome in Mice: A Pilot Study. *Lab Anim*, 23677218824382.
- Bonfig, W., Holl, R.W., 2019. Mini Review/Commentary: Growth Hormone Treatment in Children with Type 1 Diabetes. *Int J Mol Sci* 20.
- Bonhof, G.J., Herder, C., Strom, A., Papanas, N., Roden, M., Ziegler, D., 2019. Emerging Biomarkers, Tools, and Treatments for Diabetic Polyneuropathy. *Endocr Rev* 40, 153-192.
- Bramlage, P., Lanzinger, S., van Mark, G., Hess, E., Fahrner, S., Heyer, C.H.J., Friebe, M., Seufert, J., Danne, T., Holl, R.W., 2019. Patient and disease characteristics of type-2 diabetes patients with or without chronic kidney disease: an analysis of the German DPV and DIVE databases. *Cardiovasc Diabetol* 18, 33.
- Braun, B., Grunewald, M., Adam-Paffrath, R., Wesselborg, B., Wilm, S., Schendel, L., Hoenen, M., Mussig, K., Rothhoff, T., 2019. Impact of interprofessional education for medical and nursing students on the nutritional management of in-patients. *GMS J Med Educ* 36, Doc11.
- Bravenboer, N., Bredella, M.A., Chauveau, C., Corsi, A., Douni, E., Ferris, W.F., Riminucci, M., Robey, P.G., Rojas-Sutterlin, S., Rosen, C., Schulz, T.J., Cawthorn, W.P., 2019. Standardised Nomenclature, Abbreviations, and Units for the Study of Bone Marrow Adiposity: Report of the Nomenclature Working Group of the International Bone Marrow Adiposity Society. *Front Endocrinol (Lausanne)* 10, 923.
- Brede, S., Fehr, S., Dalla-Man, C., Cobelli, C., Lehnert, H., Hallschmid, M., Klement, J., 2019. Intranasal oxytocin fails to acutely improve glucose metabolism in obese men. *Diabetes Obes Metab* 21, 424-428.
- Brede, S., Lehnert, H., 2019. [Nutrition in type 2 diabetes mellitus]. *Internist (Berl)* 60, 49-58.
- Breuninger, T.A., Wawro, N., Meisinger, C., Artati, A., Adamski, J., Peters, A., Grallert, H., Linseisen, J., 2019. Associations between fecal bile acids, neutral sterols, and serum lipids in the KORA FF4 study. *Atherosclerosis* 288, 1-8.
- Bunz, H., Tschritter, O., Haap, M., Riessen, R., Heyne, N., Artunc, F., 2019. Elimination of Contrast Agent Gadobutrol with Sustained Low Efficiency Daily Dialysis Compared to Intermittent Hemodialysis. *Kidney Blood Press Res* 44, 1363-1371.
- Capristo, E., Panunzi, S., De Gaetano, A., Raffaelli, M., Guidone, C., Iaconelli, A., L'Abbate, L., Birkenfeld, A.L., Bellantone, R., Bornstein, S., Mingrone, G., 2019a. Corrigendum to "Intensive lifestyle modifications with or



without liraglutide 3mg vs. sleeve gastrectomy: A three-arm non-randomised, controlled, pilot study" [Diabetes Metab. 44 (2018) 235-242]. Diabetes Metab.

Capristo, E., Panunzi, S., De Gaetano, A., Spuntarelli, V., Bellantone, R., Giustacchini, P., Birkenfeld, A.L., Amiel, S., Bornstein, S.R., Raffaelli, M., Mingrone, G., 2019b. Response to Letter to the Editor: "Incidence of Hypoglycemia After Gastric Bypass vs Sleeve Gastrectomy: A Randomized Trial". J Clin Endocrinol Metab 104, 732-733.

Carstensen-Kirberg, M., Rohrig, K., Niersmann, C., Ouwens, D.M., Belgardt, B.F., Roden, M., Herder, C., 2019. Sfrp5 increases glucose-stimulated insulin secretion in the rat pancreatic beta cell line INS-1E. PLoS One 14, e0213650.

Casas, A.I., Kleikers, P.W., Geuss, E., Langhauser, F., Adler, T., Busch, D.H., Gailus-Durner, V., de Angelis, M.H., Egea, J., Lopez, M.G., Kleinschnitz, C., Schmidt, H.H., 2019. Calcium-dependent blood-brain barrier breakdown by NOX5 limits postreperfusion benefit in stroke. J Clin Invest 130, 1772-1778.

Castano-Martinez, T., Schumacher, F., Schumacher, S., Kochlik, B., Weber, D., Grune, T., Biemann, R., McCann, A., Abraham, K., Weikert, C., Kleuser, B., Schurmann, A., Laeger, T., 2019. Methionine restriction prevents onset of type 2 diabetes in NZO mice. FASEB J 33, 7092-7102.

Castro Dias, M., Coisne, C., Baden, P., Enzmann, G., Garrett, L., Becker, L., Holter, S.M., German Mouse Clinic, C., Hrabe de Angelis, M., Deutsch, U., Engelhardt, B., 2019. Claudin-12 is not required for blood-brain barrier tight junction function. Fluids Barriers CNS 16, 30.

Castro, J.P., Fernando, R., Reeg, S., Meinel, W., Almeida, H., Grune, T., 2019. Non-enzymatic cleavage of Hsp90 by oxidative stress leads to actin aggregate formation: A novel gain-of-function mechanism. Redox Biol 21, 101108.

Cecon, E., Ivanova, A., Luka, M., Gbahou, F., Friederich, A., Guillaume, J.L., Keller, P., Knoch, K., Ahmad, R., Delagrang, P., Solimena, M., Jockers, R., 2019. Detection of recombinant and endogenous mouse melatonin receptors by monoclonal antibodies targeting the C-terminal domain. J Pineal Res 66, e12540.

Cernilogar, F.M., Hasenoder, S., Wang, Z., Scheibner, K., Burtscher, I., Sterr, M., Smialowski, P., Groh, S., Evenroed, I.M., Gilfillan, G.D., Lickert, H., Schotta, G., 2019. Pre-marked chromatin and transcription factor co-binding shape the pioneering activity of Foxa2. Nucleic Acids Res 47, 9069-9086.

Chak, C.M., Lacruz, M.E., Adam, J., Brandmaier, S., Covic, M., Huang, J., Meisinger, C., Tiller, D., Prehn, C., Adamski, J., Berger, U., Gieger, C., Peters, A., Kluttig, A., Wang-Sattler, R., 2019. Ageing Investigation Using Two-Time-Point Metabolomics Data from KORA and CARLA Studies. Metabolites 9.

Chen, S., Henderson, A., Petriello, M.C., Romano, K.A., Gearing, M., Miao, J., Schell, M., Sandoval-Espinola, W.J., Tao, J., Sha, B., Graham, M., Crooke, R., Kleinridders, A., Balskus, E.P., Rey, F.E., Morris, A.J., Biddinger, S.B., 2019. Trimethylamine N-Oxide Binds and Activates PERK to Promote Metabolic Dysfunction. Cell Metab.

Chudoba, C., Wardelmann, K., Kleinridders, A., 2019. Molecular effects of dietary fatty acids on brain insulin action and mitochondrial function. Biol Chem.

Clark, D.W., Okada, Y., Moore, K.H.S., Mason, D., Pirastu, N., Gandin, I., Mattsson, H., Barnes, C.L.K., Lin, K., Zhao, J.H., Deelen, P., Rohde, R., Schurmann, C., Guo, X., Giulianini, F., Zhang, W., Medina-Gomez, C., Karlsson, R., Bao, Y., Bartz, T.M., Baumbach, C., Biino, G.,, Zonderman, A.B., Perola, M., Magnusson, P.K.E., Uitterlinden, A.G., Kooner, J.S., Chasman, D.I., Loos, R.J.F., Franceschini, N., Franke, L., Haley, C.S., Hayward, C., Walters, R.G., Perry, J.R.B., Esko, T., Helgason, A., Stefansson, K., Joshi, P.K., Kubo, M., Wilson, J.F., 2019. Associations of autozygosity with a broad range of human phenotypes. Nat Commun 10, 4957.

Clauss, S., Bleyer, C., Schuttler, D., Tomsits, P., Renner, S., Klymiuk, N., Wakili, R., Massberg, S., Wolf, E., Kaab, S., 2019. Animal models of arrhythmia: classic electrophysiology to genetically modified large animals. Nat Rev Cardiol 16, 457-475.

Clements, M.A., Schwandt, A., Donaghue, K.C., Miller, K., Luck, U., Couper, J.J., Foster, N., Schroder, C., Phelan, H., Maahs, D., Prinz, N., Craig, M.E., Australasian Diabetes Data Network Study Group, t.T.D.E.C.N., the German/Austrian/Luxembourgian Diabetes-Patienten-Verlaufsdokumentation, i., 2019. Five heterogeneous HbA1c trajectories from childhood to adulthood in youth with type 1 diabetes from three different continents: A group-based modeling approach. Pediatr Diabetes 20, 920-931.



Clodi, M., Abrahamian, H., Brath, H., Brix, J., Drexel, H., Fasching, P., Foger, B., Francesconi, C., Frohlich-Reiterer, E., Harreiter, J., Hofer, S.E., Hoppichler, F., Huber, J., Kaser, S., Kautzky-Willer, A., Lechleitner, M., Ludvik, B., Luger, A., Mader, J.K., Paulweber, B., Pieber, T., Prager, R., Rami-Merhar, B., Resl, M., Riedl, M., Roden, M., Saely, C.H., Schelkshorn, C., Schernthaner, G., Sourij, H., Stechemesser, L., Stingl, H., Toplak, H., Wascher, T.C., Weitgasser, R., Winhofer-Stockl, Y., Zlamal-Fortunat, S., 2019. [Antihyperglycemic treatment guidelines for diabetes mellitus type 2 (Update 2019)]. *Wien Klin Wochenschr* 131, 27-38.

Contreras, R.E., Schriever, S.C., Pfluger, P.T., 2019. Physiological and Epigenetic Features of Yoyo Dieting and Weight Control. *Front Genet* 10, 1015.

Couto Alves, A., De Silva, N.M.G., Karhunen, V., Sovio, U., Das, S., Taal, H.R., Warrington, N.M., Lewin, A.M., Kaakinen, M., Cousminer, D.L., Thiering, E., Timpson, N.J., Bond, T.A., Lowry, E., Brown, C.D., Estivill, X., Lindi, V., Bradfield, J.P., Geller, F., Speed, D., Prokopenko, I., Herzig, K.H., Smith, G.D., O'Reilly, P., Felix, J.F., Buxton, J.L., Blakemore, A.I.F., Ong, K.K., Jaddoe, V.W.V., Grant, S.F.A., Sebert, S., McCarthy, M.I., Jarvelin, M.R., Early Growth Genetics, C., 2019. GWAS on longitudinal growth traits reveals different genetic factors influencing infant, child, and adult BMI. *Sci Adv* 5, eaaw3095.

Dankel, S.N., Rost, T.H., Kulyte, A., Fandalyuk, Z., Skurk, T., Hauner, H., Sagen, J.V., Ryden, M., Arner, P., Mellgren, G., 2019. The Rho GTPase RND3 regulates adipocyte lipolysis. *Metabolism* 101, 153999.

Dauben, L., Simon, M.C., Strassburger, K., Burkart, V., Weber, K.S., Schinner, S., Roden, M., Mussig, K., 2019. Comparison of the diagnostic accuracy of the current guidelines for detecting insulinoma. *Eur J Endocrinol* 180, 381-386.

Dawed, A.Y., Zhou, K., van Leeuwen, N., Mahajan, A., Robertson, N., Koivula, R., Elders, P.J.M., Rauh, S.P., Jones, A.G., Holl, R.W., Stingl, J.C., Franks, P.W., McCarthy, M.I., t Hart, L.M., Pearson, E.R., Consortium, I.D., 2019. Variation in the Plasma Membrane Monoamine Transporter (PMAT) (Encoded by SLC29A4) and Organic Cation Transporter 1 (OCT1) (Encoded by SLC22A1) and Gastrointestinal Intolerance to Metformin in Type 2 Diabetes: An IMI DIRECT Study. *Diabetes Care* 42, 1027-1033.

de Vries, P.S., Brown, M.R., Bentley, A.R., Sung, Y.J., Winkler, T.W., Ntalla, I., Schwander, K., Kraja, A.T., Guo, X., Franceschini, N., Cheng, C.Y., Sim, X., Vojinovic, D., Huffman, J.E., Musani, S.K., Li, C., Feitosa, M.F., Richard, M.A., Noordam, R., Aschard, H., Bartz, T.M., Bielak, L.F., Fox, E.R., Hayward, C., van Duijn, C.M., Tai, E.S., Wong, T.Y., Liu, J., Rotter, J.I., Gauderman, W.J., Province, M.A., Munroe, P.B., Rice, K., Chasman, D.I., Cupples, L.A., Rao, D.C., Morrison, A.C., 2019. Multiancestry Genome-Wide Association Study of Lipid Levels Incorporating Gene-Alcohol Interactions. *Am J Epidemiol* 188, 1033-1054.

Decarie-Spain, L., Fisette, A., Zhu, Z., Yang, B., DiMarchi, R.D., Tschop, M.H., Finan, B., Fulton, S., Clemmensen, C., 2019. GLP-1/dexamethasone inhibits food reward without inducing mood and memory deficits in mice. *Neuropharmacology* 151, 55-63.

Deelen, J., Kettunen, J., Fischer, K., van der Spek, A., Trompet, S., Kastenmuller, G., Boyd, A., Zierer, J., van den Akker, E.B., Ala-Korpela, M., Amin, N., Demirkan, A., Ghanbari, M., van Heemst, D., Ikram, M.A., van Klinken, J.B., Mooijaart, S.P., Peters, A., Salomaa, V., Sattar, N., Spector, T.D., Tiemeier, H., Verhoeven, A., Waldenberger, M., Wurtz, P., Davey Smith, G., Metspalu, A., Perola, M., Menni, C., Geleijnse, J.M., Drenos, F., Beekman, M., Jukema, J.W., van Duijn, C.M., Slagboom, P.E., 2019. A metabolic profile of all-cause mortality risk identified in an observational study of 44,168 individuals. *Nat Commun* 10, 3346.

Delgado-Silva, L.F., Tsakmaki, A., Akhtar, N., Franklin, Z.J., Konantz, J., Bewick, G.A., Ninov, N., 2019. Modelling pancreatic beta-cell inflammation in zebrafish identifies the natural product wedelolactone for human islet protection. *Dis Model Mech* 12.

di Giuseppe, R., Koch, M., Nothlings, U., Kastenmuller, G., Artati, A., Adamski, J., Jacobs, G., Lieb, W., 2019. Metabolomics signature associated with circulating serum selenoprotein P levels. *Endocrine* 64, 486-495.

Dickmeis, T., Feng, Y., Mione, M.C., Ninov, N., Santoro, M., Spaink, H.P., Gut, P., 2019. Nano-Sampling and Reporter Tools to Study Metabolic Regulation in Zebrafish. *Front Cell Dev Biol* 7, 15.

Dietrich, S., Jacobs, S., Zheng, J.S., Meidtner, K., Schwingshackl, L., Schulze, M.B., 2019. Gene-lifestyle interaction on risk of type 2 diabetes: A systematic review. *Obes Rev* 20, 1557-1571.



- Dietz, L.J., Venkatasubramani, A.V., Muller-Eigner, A., Hrabec de Angelis, M., Imhof, A., Becker, L., Peleg, S., 2019. Measuring and Interpreting Oxygen Consumption Rates in Whole Fly Head Segments. *J Vis Exp*.
- Dimitrov, S., Lange, T., Gouttefangeas, C., Jensen, A.T.R., Szczepanski, M., Lehnholz, J., Soekadar, S., Rammensee, H.G., Born, J., Besedovsky, L., 2019. Galphas-coupled receptor signaling and sleep regulate integrin activation of human antigen-specific T cells. *J Exp Med* 216, 517-526.
- Do, K.T., Rasp, D.J.N., Kastenmuller, G., Suhre, K., Krumsiek, J., 2019. MoDentify: phenotype-driven module identification in metabolomics networks at different resolutions. *Bioinformatics* 35, 532-534.
- Dorsam, A.F., Preissl, H., Micali, N., Lorcher, S.B., Zipfel, S., Giel, K.E., 2019. The Impact of Maternal Eating Disorders on Dietary Intake and Eating Patterns during Pregnancy: A Systematic Review. *Nutrients* 11.
- Ducommun, S., Deak, M., Zeigerer, A., Goransson, O., Seitz, S., Collodet, C., Madsen, A.B., Jensen, T.E., Viollet, B., Foretz, M., Gut, P., Sumpton, D., Sakamoto, K., 2019. Chemical genetic screen identifies Gapex-5/GAPVD1 and STBD1 as novel AMPK substrates. *Cell Signal* 57, 45-57.
- Dudeck, J., Froebel, J., Kotrba, J., Lehmann, C.H.K., Dudziak, D., Speier, S., Nedospasov, S.A., Schraven, B., Dudeck, A., 2019. Engulfment of mast cell secretory granules on skin inflammation boosts dendritic cell migration and priming efficiency. *J Allergy Clin Immunol* 143, 1849-1864 e1844.
- Duin, S., Schutz, K., Ahlfeld, T., Lehmann, S., Lode, A., Ludwig, B., Gelinsky, M., 2019. 3D Bioprinting of Functional Islets of Langerhans in an Alginate/Methylcellulose Hydrogel Blend. *Adv Healthc Mater* 8, e1801631.
- Dull, M.M., Riegel, K., Tappenbeck, J., Ries, V., Strupf, M., Fleming, T., Sauer, S.K., Namer, B., 2019. Methylglyoxal causes pain and hyperalgesia in human through C-fiber activation. *Pain* 160, 2497-2507.
- Eichelmann, F., Schulze, M.B., Wittenbecher, C., Menzel, J., Weikert, C., di Giuseppe, R., Biemann, R., Isermann, B., Fritsche, A., Boeing, H., Aleksandrova, K., 2019. Association of Chemerin Plasma Concentration With Risk of Colorectal Cancer. *JAMA Netw Open* 2, e190896.
- El-Agroudy, N.N., Kurzbach, A., Rodionov, R.N., O'Sullivan, J., Roden, M., Birkenfeld, A.L., Pesta, D.H., 2019. Are Lifestyle Therapies Effective for NAFLD Treatment? *Trends Endocrinol Metab* 30, 701-709.
- Endesfelder, D., Zu Castell, W., Bonifacio, E., Rewers, M., Hagopian, W.A., She, J.X., Lernmark, A., Toppari, J., Vehik, K., Williams, A.J.K., Yu, L., Akolkar, B., Krischer, J.P., Ziegler, A.G., Achenbach, P., Group, T.S., 2019. Time-Resolved Autoantibody Profiling Facilitates Stratification of Preclinical Type 1 Diabetes in Children. *Diabetes* 68, 119-130.
- Erlic, Z., Kurlbaum, M., Deutschbein, T., Nolting, S., Prejbisz, A., Timmers, H., Richter, S., Prehn, C., Weismann, D., Adamski, J., Januszewicz, A., Reincke, M., Fassnacht, M., Robledo, M., Eisenhofer, G., Beuschlein, F., Kroiss, M., 2019. Metabolic impact of pheochromocytoma/paraganglioma: targeted metabolomics in patients before and after tumor removal. *Eur J Endocrinol* 181, 647-657.
- Escoter-Torres, L., Caratti, G., Mechtidou, A., Tuckermann, J., Uhlénhaut, N.H., Vettorazzi, S., 2019. Fighting the Fire: Mechanisms of Inflammatory Gene Regulation by the Glucocorticoid Receptor. *Front Immunol* 10, 1859.
- Feldmann, K., Grandoch, M., Kohlmorgen, C., Valentin, B., Gerfer, S., Nagy, N., Hartwig, S., Lehr, S., Fender, A.C., Fischer, J.W., 2019. Decreased M1 macrophage polarization in dabigatran-treated Ldlr-deficient mice: Implications for atherosclerosis and adipose tissue inflammation. *Atherosclerosis* 287, 81-88.
- Fernando, R., Drescher, C., Deubel, S., Jung, T., Ost, M., Klaus, S., Grune, T., Castro, J.P., 2019a. Low proteasomal activity in fast skeletal muscle fibers is not associated with increased age-related oxidative damage. *Exp Gerontol* 117, 45-52.
- Fernando, R., Drescher, C., Nowotny, K., Grune, T., Castro, J.P., 2019b. Impaired proteostasis during skeletal muscle aging. *Free Radic Biol Med* 132, 58-66.
- Fischer, D.S., Fiedler, A.K., Kernfeld, E.M., Genga, R.M.J., Bastidas-Ponce, A., Bakhti, M., Lickert, H., Hasenauer, J., Maehr, R., Theis, F.J., 2019. Inferring population dynamics from single-cell RNA-sequencing time series data. *Nat Biotechnol* 37, 461-468.



- Flannick, J., Mercader, J.M., Fuchsberger, C., Udler, M.S., Mahajan, A., Wessel, J., Teslovich, T.M., Caulkins, L., Koesterer, R., Barajas-Olmos, F., Blackwell, T.W., Boerwinkle, E., Brody, J.A., Centeno-Cruz, F., Chen, L., Chen, S., Contreras-Cubas, C., Cordova, E.,, Sladek, R., Meigs, J.B., Rich, S.S., Rotter, J.I., Discov, E.H.R.C., Charge, LuCamp, ProDiGy, GoT2D, Esp, Sigma, T.D., T2D, G., Amp T2D, G., Altshuler, D., Burt, N.P., Scott, L.J., Morris, A.P., Florez, J.C., McCarthy, M.I., Boehnke, M., 2019. Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. *Nature* 570, 71-76.
- Frank-Podlech, S., Heinze, J.M., Machann, J., Scheffler, K., Camps, G., Fritsche, A., Rosenberger, M., Hinrichs, J., Veit, R., Preissl, H., 2019. Functional Connectivity Within the Gustatory Network Is Altered by Fat Content and Oral Fat Sensitivity - A Pilot Study. *Front Neurosci* 13, 725.
- Franko, A., Hartwig, S., Kotzka, J., Ruoss, M., Nussler, A.K., Konigsrainer, A., Haring, H.U., Lehr, S., Peter, A., 2019. Identification of the Secreted Proteins Originated from Primary Human Hepatocytes and HepG2 Cells. *Nutrients* 11.
- Fuchs, Y.F., Sharma, V., Eugster, A., Kraus, G., Morgenstern, R., Dahl, A., Reinhardt, S., Petzold, A., Lindner, A., Lobel, D., Bonifacio, E., 2019. Gene Expression-Based Identification of Antigen-Responsive CD8(+) T Cells on a Single-Cell Level. *Front Immunol* 10, 2568.
- Gancheva, S., Ouni, M., Jelenik, T., Koliaki, C., Szendroedi, J., Toledo, F.G.S., Markgraf, D.F., Pesta, D.H., Mastrototaro, L., De Filippo, E., Herder, C., Jahnert, M., Weiss, J., Strassburger, K., Schlensak, M., Schurmann, A., Roden, M., 2019. Dynamic changes of muscle insulin sensitivity after metabolic surgery. *Nat Commun* 10, 4179.
- Gangler, S., Waldenberger, M., Artati, A., Adamski, J., van Bolhuis, J.N., Sorgjerd, E.P., van Vliet-Ostapchouk, J., Makris, K.C., 2019. Exposure to disinfection byproducts and risk of type 2 diabetes: a nested case-control study in the HUNT and Lifelines cohorts. *Metabolomics* 15, 60.
- Gaudry, M.J., Campbell, K.L., Jastroch, M., 2019. Evolution of UCP1. *Handb Exp Pharmacol* 251, 127-141.
- Georgakis, M.K., Malik, R., Bjorkbacka, H., Pana, T.A., Demissie, S., Ayers, C., Elhadad, M.A., Fornage, M., Beiser, A.S., Benjamin, E.J., Boekholdt, S.M., Engstrom, G., Herder, C., Hoogeveen, R.C., Koenig, W., Melander, O., Orho-Melander, M., Schiopu, A., Soderholm, M., Wareham, N., Ballantyne, C.M., Peters, A., Seshadri, S., Myint, P.K., Nilsson, J., de Lemos, J.A., Dichgans, M., 2019. Circulating Monocyte Chemoattractant Protein-1 and Risk of Stroke: Meta-Analysis of Population-Based Studies Involving 17 180 Individuals. *Circ Res* 125, 773-782.
- Gerards, J., Heinrich, D.A., Adolf, C., Meisinger, C., Rathmann, W., Sturm, L., Nirschl, N., Bidlingmaier, M., Beuschlein, F., Thorand, B., Peters, A., Reincke, M., Roden, M., Quinkler, M., 2019. Impaired Glucose Metabolism in Primary Aldosteronism Is Associated With Cortisol Cosecretion. *J Clin Endocrinol Metab* 104, 3192-3202.
- Gerst, F., Singer, C., Noack, K., Graf, D., Kaiser, G., Panse, M., Kovarova, M., Schleicher, E., Haring, H.U., Drews, G., Ullrich, S., 2019a. Glucose Responsiveness of beta-Cells Depends on Fatty Acids. *Exp Clin Endocrinol Diabetes*.
- Gerst, F., Wagner, R., Oquendo, M.B., Siegel-Axel, D., Fritsche, A., Heni, M., Staiger, H., Haring, H.U., Ullrich, S., 2019b. What role do fat cells play in pancreatic tissue? *Mol Metab* 25, 1-10.
- Ghaffari, M.H., Sadri, H., Schuh, K., Dusel, G., Fritten, D., Koch, C., Prehn, C., Adamski, J., Sauerwein, H., 2019a. Biogenic amines: Concentrations in serum and skeletal muscle from late pregnancy until early lactation in dairy cows with high versus normal body condition score. *J Dairy Sci* 102, 6571-6586.
- Ghaffari, M.H., Schuh, K., Dusel, G., Fritten, D., Koch, C., Prehn, C., Adamski, J., Sauerwein, H., Sadri, H., 2019b. Mammalian target of rapamycin signaling and ubiquitin-proteasome-related gene expression in skeletal muscle of dairy cows with high or normal body condition score around calving. *J Dairy Sci*.
- Giannios, I., Serafimidis, I., Anastasiou, V., Pezzolla, D., Lesche, M., Andree, C., Bickle, M., Gavalas, A., 2019. Protein Methyltransferase Inhibition Decreases Endocrine Specification Through the Upregulation of Aldh1b1 Expression. *Stem Cells* 37, 640-651.
- Gilleron, J., Gerdes, J.M., Zeigerer, A., 2019. Metabolic regulation through the endosomal system. *Traffic* 20, 552-570.



- Gimenez-Dejoo, J., Weber, S., Fernandez-Pardo, A., Moller, G., Adamski, J., Porte, S., Pares, X., Farres, J., 2019. Engineering aldo-keto reductase 1B10 to mimic the distinct 1B15 topology and specificity towards inhibitors and substrates, including retinoids and steroids. *Chem Biol Interact* 307, 186-194.
- Glantschnig, C., Koenen, M., Gil-Lozano, M., Karbiener, M., Pickrahn, I., Williams-Dautovich, J., Patel, R., Cummins, C.L., Giroud, M., Hartleben, G., Vogl, E., Bluher, M., Tuckermann, J., Uhlentaut, H., Herzig, S., Scheideler, M., 2019a. A miR-29a-driven negative feedback loop regulates peripheral glucocorticoid receptor signaling. *FASEB J* 33, 5924-5941.
- Glantschnig, C., Mattijssen, F., Vogl, E.S., Ali Khan, A., Rios Garcia, M., Fischer, K., Muller, T., Uhlentaut, H., Nawroth, P., Scheideler, M., Rose, A.J., Pellegata, N., Herzig, S., 2019b. The glucocorticoid receptor in brown adipocytes is dispensable for control of energy homeostasis. *EMBO Rep* 20, e48552.
- Gohlke, S., Zagoriy, V., Cuadros Inostroza, A., Meret, M., Mancini, C., Japtok, L., Schumacher, F., Kuhlow, D., Graja, A., Stephanowitz, H., Jahnert, M., Krause, E., Wernitz, A., Petzke, K.J., Schurmann, A., Kleuser, B., Schulz, T.J., 2019. Identification of functional lipid metabolism biomarkers of brown adipose tissue aging. *Mol Metab* 24, 1-17.
- Gonzalez-Jaramillo, V., Portilla-Fernandez, E., Glisic, M., Voortman, T., Bramer, W., Chowdhury, R., Roks, A.J.M., Danser, A.H.J., Muka, T., Nano, J., Franco, O.H., 2019a. Correction to: The role of DNA methylation and histone modifications in blood pressure: a systematic review. *J Hum Hypertens*.
- Gonzalez-Jaramillo, V., Portilla-Fernandez, E., Glisic, M., Voortman, T., Ghanbari, M., Bramer, W., Chowdhury, R., Nijsten, T., Dehghan, A., Franco, O.H., Nano, J., 2019b. Epigenetics and Inflammatory Markers: A Systematic Review of the Current Evidence. *Int J Inflam* 2019, 6273680.
- Gorgulu, K., Diakopoulos, K.N., Ai, J., Schoeps, B., Kabacaoglu, D., Karpathaki, A.F., Ciecieski, K.J., Kaya-Aksoy, E., Ruess, D.A., Berninger, A., Kowalska, M., Stevanovic, M., Wormann, S.M., Wartmann, T., Zhao, Y., Halang, W., Voronina, S., Tepikin, A., Schlitter, A.M., Steiger, K., Artati, A., Adamski, J., Aichler, M., Walch, A., Jastroch, M., Hartleben, G., Mantzoros, C.S., Weichert, W., Schmid, R.M., Herzig, S., Kruger, A., Sainz, B., Jr., Lesina, M., Algul, H., 2019. Levels of the Autophagy-Related 5 Protein Affect Progression and Metastasis of Pancreatic Tumors in Mice. *Gastroenterology* 156, 203-217 e220.
- Gouttefangeas, C., Schuhmacher, J., Dimitrov, S., 2019. Adhering to adhesion: assessing integrin conformation to monitor T cells. *Cancer Immunol Immunother* 68, 1855-1863.
- Graae, A.S., Grarup, N., Ribel-Madsen, R., Lystbaek, S.H., Boesgaard, T., Staiger, H., Fritsche, A., Wellner, N., Sulek, K., Kjolby, M., Backe, M.B., Chubanova, S., Prats, C., Serup, A.K., Birk, J.B., Dubail, J., Gillberg, L., Vienberg, S.G., Nykjaer, A., Kiens, B., Wojtaszewski, J.F.P., Larsen, S., Apte, S.S., Haring, H.U., Vaag, A., Zethelius, B., Pedersen, O., Treebak, J.T., Hansen, T., Holst, B., 2019. ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. *Diabetes* 68, 502-514.
- Graja, A., Gohlke, S., Schulz, T.J., 2019. Aging of Brown and Beige/Brite Adipose Tissue. *Handb Exp Pharmacol* 251, 55-72.
- Grammes, J., Kustner, E., Dapp, A., Hummel, M., Kammer, J.C., Kubiak, T., Schutz-Fuhrmann, I., Zimny, S., Bollow, E., Holl, R.W., initiative, D.P.V., 2019. Comparative characteristics of older people with type 1 diabetes treated with continuous subcutaneous insulin infusion or insulin injection therapy: data from the German/Austrian DPV registry. *Diabet Med*.
- Grandl, G., Novikoff, A., DiMarchi, R., Tschop, M.H., Muller, T.D., 2019. Gut Peptide Agonism in the Treatment of Obesity and Diabetes. *Compr Physiol* 10, 99-124.
- Grandoch, M., Fogel, U., Virtue, S., Maier, J.K., Jelenik, T., Kohlmorgen, C., Feldmann, K., Ostendorf, Y., Castaneda, T.R., Zhou, Z., Yamaguchi, Y., Nascimento, E.B.M., Sunkari, V.G., Goy, C., Kinzig, M., Sorgel, F., Bollyky, P.L., Schrauwen, P., Al-Hasani, H., Roden, M., Keipert, S., Vidal-Puig, A., Jastroch, M., Haendeler, J., Fischer, J.W., 2019. 4-Methylumbelliferone improves the thermogenic capacity of brown adipose tissue. *Nat Metab* 1, 546-559.
- Griggs, R.B., Santos, D.F., Laird, D.E., Doolen, S., Donahue, R.R., Wessel, C.R., Fu, W., Sinha, G.P., Wang, P., Zhou, J., Brings, S., Fleming, T., Nawroth, P.P., Susuki, K., Taylor, B.K., 2019. Methylglyoxal and a spinal TRPA1-AC1-Epac cascade facilitate pain in the db/db mouse model of type 2 diabetes. *Neurobiol Dis* 127, 76-86.



- Groener, J.B., Valkanou, A., Kender, Z., Pfeiffenberger, J., Kihm, L., Fleming, T., Nawroth, P.P., Kopf, S., 2019. Asprosin response in hypoglycemia is not related to hypoglycemia unawareness but rather to insulin resistance in type 1 diabetes. *PLoS One* 14, e0222771.
- Grune, J., Ritter, D., Kraker, K., Pappritz, K., Beyhoff, N., Schutte, T., Ott, C., John, C., van Linthout, S., Tschöpe, C., Dechend, R., Müller, D.N., Haase, N., Grune, T., Kintscher, U., Kuebler, W.M., 2019a. Accurate assessment of LV function using the first automated 2D-border detection algorithm for small animals - evaluation and application to models of LV dysfunction. *Cardiovasc Ultrasound* 17, 7.
- Grune, T., Ott, C., Haseli, S., Hohn, A., Jung, T., 2019b. The "MYOCYTER" - Convert cellular and cardiac contractions into numbers with ImageJ. *Sci Rep* 9, 15112.
- Grzybek, M., Palladini, A., Alexaki, V.I., Surma, M.A., Simons, K., Chavakis, T., Klose, C., Coskun, U., 2019. Comprehensive and quantitative analysis of white and brown adipose tissue by shotgun lipidomics. *Mol Metab* 22, 12-20.
- Haap, M., Blaschka, F., Lehmann, R., Hoyer, A., Mussig, K., 2019. Association Between Urinary Catecholamine Excretion and Urine Volume. *Horm Metab Res* 51, 531-538.
- Hamad, S., Adornetto, G., Naveja, J.J., Chavan Ravindranath, A., Raffler, J., Campillos, M., 2019. HitPickV2: a web server to predict targets of chemical compounds. *Bioinformatics* 35, 1239-1240.
- Hammerschmidt, P., Ostkotte, D., Nolte, H., Gerl, M.J., Jais, A., Brunner, H.L., Sprenger, H.G., Awazawa, M., Nicholls, H.T., Turpin-Nolan, S.M., Langer, T., Kruger, M., Brugger, B., Bruning, J.C., 2019. CerS6-Derived Sphingolipids Interact with Mff and Promote Mitochondrial Fragmentation in Obesity. *Cell* 177, 1536-1552 e1523.
- Hansen, D., Kraenkel, N., Kempes, H., Wilhelm, M., Abreu, A., Pfeiffer, A.F., Jordao, A., Cornelissen, V., Voller, H., 2019. Management of patients with type 2 diabetes in cardiovascular rehabilitation. *Eur J Prev Cardiol* 26, 133-144.
- Harger, A., Stemmer, K., Tschop, M.H., Müller, T.D., 2019. [Incretin-based co- and tri-agonists : Innovative polypharmacology for the treatment of obesity and diabetes]. *Internist (Berl)* 60, 895-902.
- Harreiter, J., Roden, M., 2019. [Diabetes mellitus-Definition, classification, diagnosis, screening and prevention (Update 2019)]. *Wien Klin Wochenschr* 131, 6-15.
- Harrison, L., Pfuhlmann, K., Schriever, S.C., Pfluger, P.T., 2019a. Profound weight loss induces reactive astrogliosis in the arcuate nucleus of obese mice. *Mol Metab* 24, 149-155.
- Harrison, L., Schriever, S.C., Feuchtinger, A., Kyriakou, E., Baumann, P., Pfuhlmann, K., Messias, A.C., Walch, A., Tschop, M.H., Pfluger, P.T., 2019b. Fluorescent blood-brain barrier tracing shows intact leptin transport in obese mice. *Int J Obes (Lond)* 43, 1305-1318.
- Hartig, F., Poli, S., Ebner, M., Birschmann, I., Kuhn, J., Ziemann, U., Haring, H.U., Lehmann, R., Peter, A., Horber, S., 2019. Monitoring of low dabigatran concentrations: diagnostic performance at clinically relevant decision thresholds. *J Thromb Thrombolysis*.
- Hartkopf, J., Moser, J., Schleger, F., Preissl, H., Keune, J., 2019. Changes in event-related brain responses and habituation during child development - A systematic literature review. *Clin Neurophysiol* 130, 2238-2254.
- Hartmann, B., Lanzinger, S., van Mark, G., Wosch, F.J., Durmaz, M., Plaumann, M., Sziegoleit, S., Seufert, J., Holl, R.W., Bramlage, P., Dpv, initiatives, D.r., 2019. Treatment intensification strategies after initial metformin therapy in adult patients with type-2 diabetes: results of the DPV and DIVE registries. *Acta Diabetol*.
- Hartwig, S., De Filippo, E., Goddeke, S., Knebel, B., Kotzka, J., Al-Hasani, H., Roden, M., Lehr, S., Sell, H., 2019. Exosomal proteins constitute an essential part of the human adipose tissue secretome. *Biochim Biophys Acta Proteom* 1867, 140172.
- Hatzigelaki, E., Pergialiotis, V., Kannenberg, J.M., Trakakis, E., Tsiavou, A., Markgraf, D.F., Carstensen-Kirberg, M., Pacini, G., Roden, M., Dimitriadis, G., Herder, C., 2019. Association between Biomarkers of Low-grade Inflammation and Sex Hormones in Women with Polycystic Ovary Syndrome. *Exp Clin Endocrinol Diabetes*.



- Haynes, A., Hermann, J.M., Clapin, H., Hofer, S.E., Karges, B., Jones, T.W., Davis, E.A., Holl, R.W., Wacdd, registries, D.P.V., 2019. Decreasing Trends in Mean HbA1c Are Not Associated With Increasing Rates of Severe Hypoglycemia in Children: A Longitudinal Analysis of Two Contemporary Population-Based Pediatric Type 1 Diabetes Registries From Australia and Germany/Austria Between 1995 and 2016. *Diabetes Care* 42, 1630-1636.
- Hedegger, K., Philippou-Massier, J., Krebs, S., Blum, H., Kunzelmann, S., Forstemann, K., Gimpfl, M., Roscher, A.A., Ensenauer, R., Wolf, E., Dahlhoff, M., 2019. Sex-specific programming effects of parental obesity in pre-implantation embryonic development. *Int J Obes (Lond)*.
- Heermann, T., Garrett, L., Wurst, W., Fuchs, H., Gailus-Durner, V., Hrade de Angelis, M., Graw, J., Holter, S.M., 2019. Crybb2 Mutations Consistently Affect Schizophrenia Endophenotypes in Mice. *Mol Neurobiol* 56, 4215-4230.
- Hemmer, M.C., Wierer, M., Schachtrup, K., Downes, M., Hubner, N., Evans, R.M., Uhlenhaut, N.H., 2019. E47 modulates hepatic glucocorticoid action. *Nat Commun* 10, 306.
- Henkel, J., Buchheim-Dieckow, K., Castro, J.P., Laeger, T., Wardelmann, K., Kleinridders, A., Johrens, K., Puschel, G.P., 2019. Reduced Oxidative Stress and Enhanced FGF21 Formation in Livers of Endurance-Exercised Rats with Diet-Induced NASH. *Nutrients* 11.
- Herder, C., Hermanns, N., 2019. Subclinical inflammation and depressive symptoms in patients with type 1 and type 2 diabetes. *Semin Immunopathol* 41, 477-489.
- Herder, C., Roden, M., Ziegler, D., 2019. Novel Insights into Sensorimotor and Cardiovascular Autonomic Neuropathy from Recent-Onset Diabetes and Population-Based Cohorts. *Trends Endocrinol Metab* 30, 286-298.
- Hermann, J.M., Miller, K.M., Hofer, S.E., Clements, M.A., Karges, W., Foster, N.C., Frohlich-Reiterer, E., Rickels, M.R., Rosenbauer, J., DeSalvo, D.J., Holl, R.W., Maahs, D.M., Network, T.D.E.C., the, D.P.V.i., 2019. The Transatlantic HbA1c gap: differences in glycaemic control across the lifespan between people included in the US T1D Exchange Registry and those included in the German/Austrian DPV registry. *Diabet Med*.
- Hladik, D., Hofig, I., Oestreicher, U., Beckers, J., Matjanovski, M., Bao, X., Scherthan, H., Atkinson, M.J., Rosemann, M., 2019. Long-term culture of mesenchymal stem cells impairs ATM-dependent recognition of DNA breaks and increases genetic instability. *Stem Cell Res Ther* 10, 218.
- Hoffmann, A., Ebert, T., Kloting, N., Kolb, M., Gericke, M., Jeromin, F., Jessnitzer, B., Lossner, U., Burkhardt, R., Stumvoll, M., Fasshauer, M., Kralisch, S., 2019. Leptin decreases circulating inflammatory IL-6 and MCP-1 in mice. *Biofactors* 45, 43-48.
- Hoppel, F., Calabria, E., Pesta, D., Kantner-Rumplmair, W., Gnaiger, E., Burtscher, M., 2019. Physiological and Pathophysiological Responses to Ultramarathon Running in Non-elite Runners. *Front Physiol* 10, 1300.
- Horbelt, T., Knebel, B., Fahlbusch, P., Barbosa, D., de Wiza, D.H., Van de Velde, F., Van Nieuwenhove, Y., Lapauw, B., Thoresen, G.H., Al-Hasani, H., Muller-Wieland, D., Ouwens, D.M., Kotzka, J., 2019. The adipokine sFRP4 induces insulin resistance and lipogenesis in the liver. *Biochim Biophys Acta Mol Basis Dis* 1865, 2671-2684.
- Hulman, A., Wagner, R., Vistisen, D., Faerch, K., Balkau, B., Manco, M., Golay, A., Haring, H.U., Heni, M., Fritsche, A., Witte, D.R., 2019. Glucose Measurements at Various Time Points During the OGTT and Their Role in Capturing Glucose Response Patterns. *Diabetes Care* 42, e56-e57.
- Husain, M., Birkenfeld, A.L., Donsmark, M., Dungan, K., Eliaschewitz, F.G., Franco, D.R., Jeppesen, O.K., Lingvay, I., Mosenzon, O., Pedersen, S.D., Tack, C.J., Thomsen, M., Vilsboll, T., Warren, M.L., Bain, S.C., Investigators, P., 2019. Oral Semaglutide and Cardiovascular Outcomes in Patients with Type 2 Diabetes. *N Engl J Med* 381, 841-851.
- Huth, C., von Toerne, C., Schederecker, F., de Las Heras Gala, T., Herder, C., Kronenberg, F., Meisinger, C., Rathmann, W., Koenig, W., Waldenberger, M., Roden, M., Peters, A., Hauck, S.M., Thorand, B., 2019. Protein markers and risk of type 2 diabetes and prediabetes: a targeted proteomics approach in the KORA F4/FF4 study. *Eur J Epidemiol* 34, 409-422.
- Icks, A., Haastert, B., Arend, W., Konein, J., Thorand, B., Holle, R., Laxy, M., Schunk, M., Neumann, A., Wasem, J., Chernyak, N., 2019a. Time spent on self-management by people with diabetes: results from the population-based KORA survey in Germany. *Diabet Med* 36, 970-981.



- Icks, A., Haastert, B., Arend, W., Konein, J., Thorand, B., Holle, R., Laxy, M., Schunk, M., Neumann, A., Wasem, J., Chernyak, N., Dintsios, C.M., 2019b. Patient time costs due to self-management in diabetes may be as high as direct medical costs: results from the population-based KORA survey FF4 in Germany. *Diabet Med*.
- Ittermann, T., Werner, N., Lieb, W., Merz, B., Nothlings, U., Kluttig, A., Tiller, D., Greiser, K.H., Vogt, S., Thorand, B., Peters, A., Volzke, H., Dorr, M., Schipf, S., Markus, M.R.P., 2019. Changes in fat mass and fat-free-mass are associated with incident hypertension in four population-based studies from Germany. *Int J Cardiol* 274, 372-377.
- Jacobi, S.F., Khajavi, N., Kleinau, G., Teumer, A., Scheerer, P., Homuth, G., Volzke, H., Wiegand, S., Kuhnen, P., Krude, H., Gong, M., Raile, K., Biebermann, H., 2019. Evaluation of a rare glucose-dependent insulinotropic polypeptide receptor variant in a patient with diabetes. *Diabetes Obes Metab* 21, 1168-1176.
- Jacobs, E., Rathmann, W., Tonnie, T., Arendt, D., Marchowicz, M., Veith, L., Kuss, O., Brinks, R., Hoyer, A., 2019a. Age at diagnosis of Type 2 diabetes in Germany: a nationwide analysis based on claims data from 69 million people. *Diabet Med*.
- Jacobs, E., Tonnie, T., Rathmann, W., Brinks, R., Hoyer, A., 2019b. Association between regional deprivation and type 2 diabetes incidence in Germany. *BMJ Open Diabetes Res Care* 7, e000857.
- Jaghutriz, B.A., Heni, M., Lutz, S.Z., Fritsche, L., Machicao, F., Staiger, H., Peter, A., Haring, H.U., Fritsche, A., Wagner, R., 2019a. Gene x Gene Interactions Highlight the Role of Incretin Resistance for Insulin Secretion. *Front Endocrinol (Lausanne)* 10, 72.
- Jaghutriz, B.A., Wagner, R., Heni, M., Lehmann, R., Machann, J., Stefan, N., Haring, H.U., Fritsche, A., 2019b. Metabolomic Characteristics of Fatty Pancreas. *Exp Clin Endocrinol Diabetes*.
- Jall, S., Finan, B., Collden, G., Fischer, K., Dong, X., Tschop, M.H., Muller, T.D., Clemmensen, C., 2019a. Corrigendum to "Pirt deficiency has subtle female-specific effects on energy and glucose metabolism in mice" [*Molecular Metabolism* 23 (2019) 75-81]. *Mol Metab* 30, 264.
- Jall, S., Finan, B., Collden, G., Fischer, K., Dong, X., Tschop, M.H., Muller, T.D., Clemmensen, C., 2019b. Pirt deficiency has subtle female-specific effects on energy and glucose metabolism in mice. *Mol Metab* 23, 75-81.
- Jannasch, F., Kroger, J., Agnoli, C., Barricarte, A., Boeing, H., Cayssials, V., Colorado-Yohar, S., Dahm, C.C., Dow, C., Fagherazzi, G., Franks, P.W., Freisling, H., Gunter, M.J., Kerrison, N.D., Key, T.J., Khaw, K.T., Kuhn, T., Kyro, C., Mancini, F.R., Mokoroa, O., Nilsson, P., Overvad, K., Palli, D., Panico, S., Garcia, J.R.Q., Rolandsson, O., Sacerdote, C., Sanchez, M.J., Sahrai, M.S., Schubel, R., Sluijs, I., Spijkerman, A.M.W., Tjonneland, A., Tong, T.Y.N., Tumino, R., Riboli, E., Langenberg, C., Sharp, S.J., Forouhi, N.G., Schulze, M.B., Wareham, N.J., 2019. Generalizability of a Diabetes-Associated Country-Specific Exploratory Dietary Pattern Is Feasible Across European Populations. *J Nutr* 149, 1047-1055.
- Janssen, S., Mehta, P., Bartscht, T., Schmid, S.M., Fahlbusch, F.B., Rades, D., 2019. Prevalence of metastases within the hypothalamic-pituitary area in patients with brain metastases. *Radiat Oncol* 14, 152.
- Jende, J.M.E., Groener, J.B., Rother, C., Kender, Z., Hahn, A., Hilgenfeld, T., Juerchott, A., Preisner, F., Heiland, S., Kopf, S., Pham, M., Nawroth, P., Bendszus, M., Kurz, F.T., 2019. Association of Serum Cholesterol Levels With Peripheral Nerve Damage in Patients With Type 2 Diabetes. *JAMA Netw Open* 2, e194798.
- Jensen, L.R., Garrett, L., Holter, S.M., Rathkolb, B., Racz, I., Adler, T., Prehn, C., Hans, W., Rozman, J., Becker, L., Aguilar-Pimentel, J.A., Puk, O., Moreth, K., Dopatka, M., Walther, D.J., von Bohlen Und Halbach, V., Rath, M., Delatycki, M., Bert, B., Fink, H., Blumlein, K., Ralser, M., Van Dijck, A., Kooy, F., Stark, Z., Muller, S., Scherthan, H., Gecz, J., Wurst, W., Wolf, E., Zimmer, A., Klingenspor, M., Graw, J., Klopstock, T., Busch, D., Adamski, J., Fuchs, H., Gailus-Durner, V., de Angelis, M.H., von Bohlen Und Halbach, O., Ropers, H.H., Kuss, A.W., 2019. A mouse model for intellectual disability caused by mutations in the X-linked 2' O-methyltransferase Ftsj1 gene. *Biochim Biophys Acta Mol Basis Dis* 1865, 2083-2093.
- Jeske, T., Huypens, P., Stirm, L., Hockele, S., Wurmser, C.M., Bohm, A., Weigert, C., Staiger, H., Klein, C., Beckers, J., Hastreiter, M., 2019. DEUS: an R package for accurate small RNA profiling based on differential expression of unique sequences. *Bioinformatics*.



- Ji, Y., Yiorkas, A.M., Frau, F., Mook-Kanamori, D., Staiger, H., Thomas, E.L., Atabaki-Pasdar, N., Campbell, A., Tyrrell, J., Jones, S.E., Beaumont, R.N., Wood, A.R., Tuke, M.A., Ruth, K.S., Mahajan, A., Murray, A., Freathy, R.M., Weedon, M.N., Hattersley, A.T., Hayward, C., Machann, J., Haring, H.U., Franks, P., de Mutsert, R., Pearson, E., Stefan, N., Frayling, T.M., Allebrandt, K.V., Bell, J.D., Blakemore, A.I., Yaghootkar, H., 2019. Genome-Wide and Abdominal MRI Data Provide Evidence That a Genetically Determined Favorable Adiposity Phenotype Is Characterized by Lower Ectopic Liver Fat and Lower Risk of Type 2 Diabetes, Heart Disease, and Hypertension. *Diabetes* 68, 207-219.
- Justice, A.E., Karaderi, T., Highland, H.M., Young, K.L., Graff, M., Lu, Y., Turcot, V., Auer, P.L., Fine, R.S., Guo, X., Schurmann, C., Lempradl, A., Marouli, E., Mahajan, A., Winkler, T.W., Locke, A.E., Medina-Gomez, C., Esko, T., Vedantam, S., Giri, A., Lo, K.S., Alfred, T.,, North, K.E., Lindgren, C.M., Consortium, C.H.D.E., Cohorts for, H., Aging Research in Genomic Epidemiology, C., Consortium, E.-C., Exome, B.P.C., Global Lipids Genetic, C., Go, T.D.G.C., InterAct, ReproGen, C., Consortium, T.D.-G., Investigators, M., 2019. Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. *Nat Genet* 51, 452-469.
- Kabeza, C.B., Harst, L., Schwarz, P.E.H., Timpel, P., 2019. Assessment of Rwandan diabetic patients' needs and expectations to develop their first diabetes self-management smartphone application (Kir'App). *Ther Adv Endocrinol Metab* 10, 2042018819845318.
- Kabisch, S., 2019. Nutrigenetic effects in metabolic syndrome - A cornerstone for individualized therapy. *J Diabetes Complications* 33, 193-194.
- Kabisch, S., Meyer, N.M.T., Honsek, C., Gerbracht, C., Dambeck, U., Kemper, M., Osterhoff, M.A., Birkenfeld, A.L., Arafat, A.M., Hjorth, M.F., Weickert, M.O., Pfeiffer, A.F.H., 2019a. Fasting Glucose State Determines Metabolic Response to Supplementation with Insoluble Cereal Fibre: A Secondary Analysis of the Optimal Fibre Trial (OptiFiT). *Nutrients* 11.
- Kabisch, S., Meyer, N.M.T., Honsek, C., Gerbracht, C., Dambeck, U., Kemper, M., Osterhoff, M.A., Birkenfeld, A.L., Arafat, A.M., Weickert, M.O., Pfeiffer, A.F.H., 2019b. Obesity Does Not Modulate the Glycometabolic Benefit of Insoluble Cereal Fibre in Subjects with Prediabetes-A Stratified Post Hoc Analysis of the Optimal Fibre Trial (OptiFiT). *Nutrients* 11.
- Kahm, K., Laxy, M., Schneider, U., Holle, R., 2019a. Exploring Different Strategies of Assessing the Economic Impact of Multiple Diabetes-Associated Complications and Their Interactions: A Large Claims-Based Study in Germany. *Pharmacoeconomics* 37, 63-74.
- Kahm, K., Stark, R., Laxy, M., Schneider, U., Leidl, R., 2019b. Assessment of excess medical costs for persons with type 2 diabetes according to age groups: an analysis of German health insurance claims data. *Diabet Med*.
- Kalscheuer, H., Seufert, J., Lanzinger, S., Rosenbauer, J., Karges, W., Bergis, D., Mader, J.K., Zimny, S., Schmid, S.M., Hummel, M., Kerner, W., Holl, R.W., Initiative, D.P.V., 2019. Event Rates and Risk Factors for the Development of Diabetic Ketoacidosis in Adult Patients With Type 1 Diabetes: Analysis From the DPV Registry Based on 46,966 Patients. *Diabetes Care* 42, e34-e36.
- Kappler, L., Hoene, M., Hu, C., von Toerne, C., Li, J., Bleher, D., Hoffmann, C., Bohm, A., Kollipara, L., Zischka, H., Konigsrainer, A., Haring, H.U., Peter, A., Xu, G., Sickmann, A., Hauck, S.M., Weigert, C., Lehmann, R., 2019a. Linking bioenergetic function of mitochondria to tissue-specific molecular fingerprints. *Am J Physiol Endocrinol Metab* 317, E374-E387.
- Kappler, L., Kollipara, L., Lehmann, R., Sickmann, A., 2019b. Investigating the Role of Mitochondria in Type 2 Diabetes - Lessons from Lipidomics and Proteomics Studies of Skeletal Muscle and Liver. *Adv Exp Med Biol* 1158, 143-182.
- Karasik, D., Zillikens, M.C., Hsu, Y.H., Aghdassi, A., Akesson, K., Amin, N., Barroso, I., Bennett, D.A., Bertram, L., Bochud, M., Borecki, I.B., Broer, L., Buchman, A.S., Byberg, L., Campbell, H., Campos-Obando, N., Cauley, J.A., Cawthon, P.M., Chambers, J.C.,, Wilson, J.F., Wright, N.C., Yerges-Armstrong, L.M., Yu, L., Zhang, W., Zhao, J.H., Zhou, Y., Nielson, C.M., Harris, T.B., Demissie, S., Kiel, D.P., Ohlsson, C., 2019. Disentangling the genetics of lean mass. *Am J Clin Nutr* 109, 276-287.



- Karches, C.H., Benmebarek, M.R., Schmidbauer, M.L., Kurzay, M., Klaus, R., Geiger, M., Rataj, F., Cadilha, B.L., Lesch, S., Heise, C., Murr, R., Vom Berg, J., Jastroch, M., Lamp, D., Ding, J., Duewell, P., Niederfellner, G., Sustmann, C., Endres, S., Klein, C., Kobold, S., 2019. Bispecific Antibodies Enable Synthetic Agonistic Receptor-Transduced T Cells for Tumor Immunotherapy. *Clin Cancer Res* 25, 5890-5900.
- Karl, F.M., Holle, R., Schwettmann, L., Peters, A., Laxy, M., 2019. Status quo bias and health behavior: findings from a cross-sectional study. *Eur J Public Health* 29, 992-997.
- Karusheva, Y., Koessler, T., Strassburger, K., Markgraf, D., Mastrototaro, L., Jelenik, T., Simon, M.C., Pesta, D., Zaharia, O.P., Bodis, K., Barenz, F., Schmoll, D., Wolkersdorfer, M., Tura, A., Pacini, G., Burkart, V., Mussig, K., Szendroedi, J., Roden, M., 2019. Short-term dietary reduction of branched-chain amino acids reduces meal-induced insulin secretion and modifies microbiome composition in type 2 diabetes: a randomized controlled crossover trial. *Am J Clin Nutr* 110, 1098-1107.
- Kehm, R., Ruckriemen, J., Weber, D., Deubel, S., Grune, T., Hohn, A., 2019. Endogenous advanced glycation end products in pancreatic islets after short-term carbohydrate intervention in obese, diabetes-prone mice. *Nutr Diabetes* 9, 9.
- Kempe-Teufel, D., Machicao, F., Machann, J., Bohm, A., Schick, F., Fritsche, A., Stefan, N., Hrabce de Angelis, M., Haring, H.U., Staiger, H., 2019. A Polygenic Risk Score of Lipolysis-Increasing Alleles Determines Visceral Fat Mass and Proinsulin Conversion. *J Clin Endocrinol Metab* 104, 1090-1098.
- Kender, Z., Groener, J.B., Reismann, P., Kopf, S., 2019. [The effect of metformin on lipid parameters and on cardiovascular risk in patients with type 2 diabetes without statin therapy]. *Orv Hetil* 160, 1346-1352.
- Keshava, N., Toh, T.S., Yuan, H., Yang, B., Menden, M.P., Wang, D., 2019. Defining subpopulations of differential drug response to reveal novel target populations. *NPJ Syst Biol Appl* 5, 36.
- Kessel, F., Steglich, A., Tschongov, T., Gembarde, F., Ruhnke, L., Stumpf, J., Behrendt, R., Cohrs, C., Kopaliani, I., Todorov, V., Gerlach, M., Hugo, C., 2019. New automatic quantification method of immunofluorescence and histochemistry in whole histological sections. *Cell Signal* 62, 109335.
- Kessler, K., Gerl, M.J., Hornemann, S., Damm, M., Klose, C., Petzke, K.J., Kemper, M., Weber, D., Rudovich, N., Grune, T., Simons, K., Kramer, A., Pfeiffer, A.F.H., Pivovarov-Ramich, O., 2019. Shotgun lipidomics discovered diurnal regulation of lipid metabolism linked to insulin sensitivity in non-diabetic men. *J Clin Endocrinol Metab*.
- Kessler, K., Pivovarov-Ramich, O., 2019. Meal Timing, Aging, and Metabolic Health. *Int J Mol Sci* 20.
- Keuper, M., Berti, L., Raedle, B., Sachs, S., Bohm, A., Fritsche, L., Fritsche, A., Haring, H.U., Hrabce de Angelis, M., Jastroch, M., Hofmann, S.M., Staiger, H., 2019a. Preadipocytes of obese humans display gender-specific bioenergetic responses to glucose and insulin. *Mol Metab* 20, 28-37.
- Keuper, M., Haring, H.U., Staiger, H., 2019b. Circulating FGF21 Levels in Human Health and Metabolic Disease. *Exp Clin Endocrinol Diabetes*.
- Khamis, A., Canouil, M., Siddiq, A., Crouch, H., Falchi, M., Bulow, M.V., Eehalt, F., Marselli, L., Distler, M., Richter, D., Weitz, J., Bokvist, K., Xenarios, I., Thorens, B., Schulte, A.M., Ibberson, M., Bonnefond, A., Marchetti, P., Solimena, M., Froguel, P., 2019. Laser capture microdissection of human pancreatic islets reveals novel eQTLs associated with type 2 diabetes. *Mol Metab* 24, 98-107.
- Kilpelainen, T.O., Bentley, A.R., Noordam, R., Sung, Y.J., Schwander, K., Winkler, T.W., Jakupovic, H., Chasman, D.I., Manning, A., Ntalla, I., Aschard, H., Brown, M.R., de Las Fuentes, L., Franceschini, N., Guo, X., Vojinovic, D., Aslibekyan, S., Feitosa, M.F., Kho, M., Psaty, B.M., Rice, K., Munroe, P.B., Fornage, M., Cupples, L.A., Rotimi, C.N., Morrison, A.C., Rao, D.C., Loos, R.J.F., 2019. Multi-ancestry study of blood lipid levels identifies four loci interacting with physical activity. *Nat Commun* 10, 376.
- Kim, H., Kang, H., Kwon, Y., Choi, J., Chang, J.H., 2019a. Proportional subcellular localization of Arabidopsis thaliana RabA1a. *Plant Signal Behav* 14, e1581561.
- Kim, P., Oster, H., Lehnert, H., Schmid, S.M., Salamat, N., Barclay, J.L., Maronde, E., Inder, W., Rawashdeh, O., 2019b. Coupling the Circadian Clock to Homeostasis: The Role of Period in Timing Physiology. *Endocr Rev* 40, 66-95.



- Kjobsted, R., Chadt, A., Jorgensen, N.O., Kido, K., Larsen, J.K., de Wendt, C., Al-Hasani, H., Wojtaszewski, J.F.P., 2019a. TBC1D4 Is Necessary for Enhancing Muscle Insulin Sensitivity in Response to AICAR and Contraction. *Diabetes* 68, 1756-1766.
- Kjobsted, R., Roll, J.L.W., Jorgensen, N.O., Birk, J.B., Foretz, M., Viollet, B., Chadt, A., Al-Hasani, H., Wojtaszewski, J.F.P., 2019b. AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. *Diabetes* 68, 1427-1440.
- Klein, C., Jonas, W., Wiedmer, P., Schreyer, S., Akyuz, L., Spranger, J., Hellweg, R., Steiner, B., 2019. High-fat Diet and Physical Exercise Differentially Modulate Adult Neurogenesis in the Mouse Hypothalamus. *Neuroscience* 400, 146-156.
- Kleinert, M., Sachs, S., Habegger, K.M., Hofmann, S.M., Muller, T.D., 2019. Glucagon Regulation of Energy Expenditure. *Int J Mol Sci* 20.
- Kleinridders, A., Pothos, E.N., 2019. Impact of Brain Insulin Signaling on Dopamine Function, Food Intake, Reward, and Emotional Behavior. *Curr Nutr Rep* 8, 83-91.
- Klepac, K., Georgiadi, A., Tschop, M., Herzig, S., 2019. The role of brown and beige adipose tissue in glycaemic control. *Mol Aspects Med* 68, 90-100.
- Klimontov, V.V., Bulumbaeva, D.M., Fazullina, O.N., Lykov, A.P., Bgatova, N.P., Orlov, N.B., Konenkov, V.I., Pfeiffer, A.F.H., Pivovarova-Ramich, O., Rudovich, N., 2019. Circulating Wnt1-inducible signaling pathway protein-1 (WISP-1/CCN4) is a novel biomarker of adiposity in subjects with type 2 diabetes. *J Cell Commun Signal*.
- Kluth, O., Stadion, M., Gottmann, P., Aga, H., Jahnert, M., Scherneck, S., Vogel, H., Krus, U., Seelig, A., Ling, C., Gerdes, J., Schurmann, A., 2019. Decreased Expression of Cilia Genes in Pancreatic Islets as a Risk Factor for Type 2 Diabetes in Mice and Humans. *Cell Rep* 26, 3027-3036 e3023.
- Knebel, B., Fahlbusch, P., Dille, M., Wahlers, N., Hartwig, S., Jacob, S., Kettel, U., Schiller, M., Herebian, D., Koellmer, C., Lehr, S., Muller-Wieland, D., Kotzka, J., 2019a. Fatty Liver Due to Increased de novo Lipogenesis: Alterations in the Hepatic Peroxisomal Proteome. *Front Cell Dev Biol* 7, 248.
- Knebel, B., Fahlbusch, P., Poschmann, G., Dille, M., Wahlers, N., Stuhler, K., Hartwig, S., Lehr, S., Schiller, M., Jacob, S., Kettel, U., Muller-Wieland, D., Kotzka, J., 2019b. Adipokine Signatures in Obese Mouse Models Reflect Adipose Tissue Health and Are Associated with Serum Lipid Composition. *Int J Mol Sci* 20.
- Knudsen, J.R., Fritzen, A.M., James, D.E., Jensen, T.E., Kleinert, M., Richter, E.A., 2019. Growth Factor-Dependent and -Independent Activation of mTORC2. *Trends Endocrinol Metab*.
- Knuppel, S., Clemens, M., Conrad, J., Gastell, S., Michels, K.B., Leitzmann, M., Krist, L., Pischon, T., Krause, G., Ahrens, W., Ebert, N., Jockel, K.H., Kluttig, A., Obi, N., Kaaks, R., Lieb, W., Schipf, S., Brenner, H., Heuer, T., Harttig, U., Linseisen, J., Nothlings, U., Boeing, H., 2019. Design and characterization of dietary assessment in the German National Cohort. *Eur J Clin Nutr* 73, 1480-1491.
- Kochlik, B., Stuetz, W., Peres, K., Feart, C., Tegner, J., Rodriguez-Manas, L., Grune, T., Weber, D., 2019a. Associations of Plasma 3-Methylhistidine with Frailty Status in French Cohorts of the FRAILOMIC Initiative. *J Clin Med* 8.
- Kochlik, B., Stuetz, W., Peres, K., Pilleron, S., Feart, C., Garcia Garcia, F.J., Bandinelli, S., Gomez-Cabrero, D., Rodriguez-Manas, L., Grune, T., Weber, D., 2019b. Associations of fat-soluble micronutrients and redox biomarkers with frailty status in the FRAILOMIC initiative. *J Cachexia Sarcopenia Muscle*.
- Koelman, L., Pivovarova-Ramich, O., Pfeiffer, A.F.H., Grune, T., Aleksandrova, K., 2019. Cytokines for evaluation of chronic inflammatory status in ageing research: reliability and phenotypic characterisation. *Immun Ageing* 16, 11.
- Kohl, S.H., Veit, R., Spetter, M.S., Gunther, A., Rina, A., Luhrs, M., Birbaumer, N., Preissl, H., Hallschmid, M., 2019. Real-time fMRI neurofeedback training to improve eating behavior by self-regulation of the dorsolateral prefrontal cortex: A randomized controlled trial in overweight and obese subjects. *Neuroimage* 191, 596-609.
- Kolb, H., Burkart, V., 2019. Chaperones may cause the focus of diabetes autoimmunity on distinct (pro)insulin peptides. *J Autoimmun* 105, 102304.



König, J., Grune, T., Ott, C., 2019. Assessing autophagy in murine skeletal muscle: current findings to modulate and quantify the autophagic flux. *Curr Opin Clin Nutr Metab Care* 22, 355-362.

Kosilek, R.P., Baumeister, S.E., Ittermann, T., Grundling, M., Brunkhorst, F.M., Felix, S.B., Abel, P., Friesecke, S., Apfelbacher, C., Brandl, M., Schmidt, K., Hoffmann, W., Schmidt, C.O., Chenot, J.F., Volzke, H., Gensichen, J.S., 2019. The association of intensive care with utilization and costs of outpatient healthcare services and quality of life. *PLoS One* 14, e0222671.

Kosteria, I., Schwandt, A., Davis, E., Jali, S., Prieto, M., Rottembourg, D., group, S.s., 2019. Lipid profile is associated with treatment regimen in a large cohort of children and adolescents with Type 1 diabetes mellitus: a study from the international SWEET database. *Diabet Med*.

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, L.S., Hosur, K., Lim, J.H., Chung, K.J., Grossklaus, S., Tausche, A.K., Joosten, L.A.B., Moutsopoulos, N.M., Wielockx, B., Castrillo, A., Korostoff, J.M., Coskun, U., Hajishengallis, G., Chavakis, T., 2019. DEL-1 promotes macrophage efferocytosis and clearance of inflammation. *Nat Immunol* 20, 40-49.

Kowall, B., Rathmann, W., Bongaerts, B., Kuss, O., Stang, A., Roden, M., Herder, C., Koenig, W., Huth, C., Heier, M., Thorand, B., Ladwig, K.H., Holle, R., Meisinger, C., Peters, A., 2019. Incidence Rates of Type 2 Diabetes in People With Impaired Fasting Glucose (ADA vs. WHO Criteria) and Impaired Glucose Tolerance: Results From an Older Population (KORA S4/F4/FF4 Study). *Diabetes Care* 42, e18-e20.

Krause, C., Sievert, H., Geissler, C., Grohs, M., El Gammal, A.T., Wolter, S., Ohlei, O., Kilpert, F., Kramer, U.M., Kasten, M., Klein, C., Brabant, G.E., Mann, O., Lehnert, H., Kirchner, H., 2019. Critical evaluation of the DNA-methylation markers ABCG1 and SREBF1 for Type 2 diabetes stratification. *Epigenomics* 11, 885-897.

Kuang, A., Erlund, I., Herder, C., Westerhuis, J.A., Tuomilehto, J., Cornelis, M.C., 2019. Targeted proteomic response to coffee consumption. *Eur J Nutr*.

Kurz, C.F., Rehm, M., Holle, R., Teuner, C., Laxy, M., Schwarzkopf, L., 2019. The effect of bariatric surgery on health care costs: A synthetic control approach using Bayesian structural time series. *Health Econ* 28, 1293-1307.

Laimighofer, M., Lickert, R., Fuerst, R., Theis, F.J., Winkler, C., Bonifacio, E., Ziegler, A.G., Krumsiek, J., 2019. Common patterns of gene regulation associated with Cesarean section and the development of islet autoimmunity - indications of immune cell activation. *Sci Rep* 9, 6250.

Landgraf, R., Aberle, J., Birkenfeld, A.L., Gallwitz, B., Kellerer, M., Klein, H., Müller-Wieland, D., Nauck, M.A., Reuter, H.M., Siegel, E., 2019. Therapy of Type 2 Diabetes. *Exp Clin Endocrinol Diabetes* 127, S73-S92.

Lange, T., Born, J., Westermann, J., 2019. Sleep Matters: CD4(+) T Cell Memory Formation and the Central Nervous System. *Trends Immunol* 40, 674-686.

Lanzinger, S., Welters, A., Thon, A., Konrad, K., Kapellen, T., Grulich-Henn, J., Raddatz, D., Holl, R.W., 2019. Comparing clinical characteristics of pediatric patients with pancreatic diabetes to patients with type 1 diabetes: A matched case-control study. *Pediatr Diabetes* 20, 955-963.

Laxy, M., Schoning, V.M., Kurz, C., Holle, R., Peters, A., Meisinger, C., Rathmann, W., Muhlenbruch, K., Kahm, K., 2019. Performance of the UKPDS Outcomes Model 2 for Predicting Death and Cardiovascular Events in Patients with Type 2 Diabetes Mellitus from a German Population-Based Cohort. *Pharmacoeconomics*.

Lechleitner, M., Clodi, M., Abrahamian, H., Brath, H., Brix, J., Drexel, H., Fasching, P., Foger, B., Francesconi, C., Frohlich-Reiterer, E., Harreiter, J., Hofer, S.E., Hoppichler, F., Huber, J., Kaser, S., Kautzky-Willer, A., Ludvik, B., Luger, A., Mader, J.K., Paulweber, B., Pieber, T., Prager, R., Rami-Merhar, B., Resl, M., Riedl, M., Roden, M., Saely, C.H., Schelkshorn, C., Schernthaner, G., Sourij, H., Stechemesser, L., Stingl, H., Toplak, H., Wascher, T.C., Weitgasser, R., Winhofer-Stockl, Y., Zlamal-Fortunat, S., 2019a. [Insulin therapy of type 2 diabetes mellitus (Update 2019)]. *Wien Klin Wochenschr* 131, 39-46.

Lechleitner, M., Kaser, S., Hoppichler, F., Roden, M., Weitgasser, R., Ludvik, B., Fasching, P., Winhofer-Stockl, Y., Kautzky-Willer, A., Schernthaner, G., Prager, R., Wascher, T.C., Clodi, M., 2019b. [Diagnosis and insulin therapy of type 1 diabetes mellitus (Update 2019)]. *Wien Klin Wochenschr* 131, 77-84.



- Lee, K.Y., Luong, Q., Sharma, R., Dreyfuss, J.M., Ussar, S., Kahn, C.R., 2019. Developmental and functional heterogeneity of white adipocytes within a single fat depot. *EMBO J* 38.
- Levin, L.M., Volzke, H., Lerch, M.M., Kuhn, J.P., Nauck, M., Friedrich, N., Zylla, S., 2019. Associations of circulating chemerin and adiponectin concentrations with hepatic steatosis. *Endocr Connect* 8, 1097-1107.
- Liebsch, C., Pitchika, V., Pink, C., Samietz, S., Kastenmuller, G., Artati, A., Suhre, K., Adamski, J., Nauck, M., Volzke, H., Friedrich, N., Kocher, T., Holtfreter, B., Pietzner, M., 2019. The Saliva Metabolome in Association to Oral Health Status. *J Dent Res* 98, 642-651.
- Linder, K., Willmann, C., Kantartzis, K., Machann, J., Schick, F., Graf, M., Kummerle, S., Haring, H.U., Fritsche, A., Stefan, N., Wagner, R., 2019. Dietary Niacin Intake Predicts the Decrease of Liver Fat Content During a Lifestyle Intervention. *Sci Rep* 9, 1303.
- Liu, C.T., Merino, J., Rybin, D., DiCorpo, D., Benke, K.S., Bragg-Gresham, J.L., Canouil, M., Corre, T., Grallert, H., Isaacs, A., Kutalik, Z., Lahti, J., Marullo, L., Marzi, C., Rasmussen-Torvik, L.J., Rocheleau, G., Rueedi, R., Scapoli, C., Verweij, N., Vogelzangs, N., Willems, S.M., Yengo, L., Bakker, S.J.L., Beilby, J., Hui, J., Kajantie, E., Muller-Nurasyid, M., Rathmann, W., Balkau, B., Bergmann, S., Eriksson, J.G., Florez, J.C., Froguel, P., Harris, T., Hung, J., James, A.L., Kavousi, M., Miljkovic, I., Musk, A.W., Palmer, L.J., Peters, A., Rousset, R., van der Harst, P., van Duijn, C.M., Vollenweider, P., Barroso, I., Prokopenko, I., Dupuis, J., Meigs, J.B., Bouatia-Naji, N., 2019a. Genome-wide Association Study of Change in Fasting Glucose over time in 13,807 non-diabetic European Ancestry Individuals. *Sci Rep* 9, 9439.
- Liu, J., Carnero-Montoro, E., van Dongen, J., Lent, S., Nedeljkovic, I., Ligthart, S., Tsai, P.C., Martin, T.C., Mandaviya, P.R., Jansen, R., Peters, M.J., Duijts, L., Jaddoe, V.W.V., Tiemeier, H., Felix, J.F., Willemsen, G., de Geus, E.J.C., Chu, A.Y., Levy, D., Hwang, S.J., Bressler, J., Gondalia, R., Salfati, E.L., Herder, C., Hidalgo, B.A., Tanaka, T., Moore, A.Z., Lemaitre, R.N., Jhun, M.A., Smith, J.A., Sotoodehnia, N., Bandinelli, S., Ferrucci, L., Arnett, D.K., Grallert, H., Assimes, T.L., Hou, L., Baccarelli, A., Whitsel, E.A., van Dijk, K.W., Amin, N., Uitterlinden, A.G., Sijbrands, E.J.G., Franco, O.H., Dehghan, A., Spector, T.D., Dupuis, J., Hivert, M.F., Rotter, J.I., Meigs, J.B., Pankow, J.S., van Meurs, J.B.J., Isaacs, A., Boomsma, D.I., Bell, J.T., Demirkan, A., van Duijn, C.M., 2019b. An integrative cross-omics analysis of DNA methylation sites of glucose and insulin homeostasis. *Nat Commun* 10, 2581.
- Lodd, E., Wiggerhauser, L.M., Morgenstern, J., Fleming, T.H., Poschet, G., Buttner, M., Tabler, C.T., Wohlfart, D.P., Nawroth, P.P., Kroll, J., 2019. The combination of loss of glyoxalase1 and obesity results in hyperglycemia. *JCI Insight* 4.
- Lorza-Gil, E., Gerst, F., Oquendo, M.B., Deschl, U., Haring, H.U., Beilmann, M., Ullrich, S., 2019. Glucose, adrenaline and palmitate antagonistically regulate insulin and glucagon secretion in human pseudoislets. *Sci Rep* 9, 10261.
- Lubomirov, L.T., Gagov, H., Schroeter, M.M., Wiesner, R.J., Franko, A., 2019. Augmented contractility of murine femoral arteries in a streptozotocin diabetes model is related to increased phosphorylation of MYPT1. *Physiol Rep* 7, e13975.
- Lucht, S., Hennig, F., Moebus, S., Fuhrer-Sakel, D., Herder, C., Jockel, K.H., Hoffmann, B., Heinz Nixdorf Recall Study Investigative, G., 2019. Air pollution and diabetes-related biomarkers in non-diabetic adults: A pathway to impaired glucose metabolism? *Environ Int* 124, 370-392.
- Lund, J., Ouwens, D.M., Wettergreen, M., Bakke, S.S., Thoresen, G.H., Aas, V., 2019. Increased Glycolysis and Higher Lactate Production in Hyperglycemic Myotubes. *Cells* 8.
- Lundbom, J., Bierwagen, A., Bodis, K., Apostolopoulou, M., Szendroedi, J., Mussig, K., Hwang, J.H., Roden, M., 2019. ¹H-MRS of femoral red and yellow bone marrow fat composition and water content in healthy young men and women at 3 T. *MAGMA* 32, 591-597.
- Lundtoft, C., Seyfarth, J., Oberstrass, S., Rosenbauer, J., Baechle, C., Roden, M., Holl, R.W., Mayatepek, E., Kummer, S., Meissner, T., Jacobsen, M., 2019. Autoimmunity risk- and protection-associated IL7RA genetic variants differentially affect soluble and membrane IL-7Ralpha expression. *J Autoimmun* 97, 40-47.



- Lutz, S.Z., Hennige, A.M., Peter, A., Kovarova, M., Totsikas, C., Machann, J., Krober, S.M., Sperl, B., Schleicher, E., Schick, F., Heni, M., Ullrich, A., Haring, H.U., Stefan, N., 2019a. The Gly385(388)Arg Polymorphism of the FGFR4 Receptor Regulates Hepatic Lipogenesis Under Healthy Diet. *J Clin Endocrinol Metab* 104, 2041-2053.
- Lutz, S.Z., Wagner, R., Fritsche, L., Peter, A., Rettig, I., Willmann, C., Fehlert, E., Martus, P., Todenhofer, T., Stefan, N., Fritsche, A., Haring, H.U., Heni, M., 2019b. Sex-Specific Associations of Testosterone With Metabolic Traits. *Front Endocrinol (Lausanne)* 10, 90.
- Ma, J., Nano, J., Ding, J., Zheng, Y., Hennein, R., Liu, C., Speliotes, E.K., Huan, T., Song, C., Mendelson, M.M., Joehanes, R., Long, M.T., Liang, L., Smith, J.A., Reynolds, L.M., Ghanbari, M., Muka, T., van Meurs, J.B.J., Alferink, L.J.M., Franco, O.H., Dehghan, A., Ratliff, S., Zhao, W., Bielak, L., Kardia, S.L.R., Peyser, P.A., Ning, H., VanWagner, L.B., Lloyd-Jones, D.M., Carr, J.J., Greenland, P., Lichtenstein, A.H., Hu, F.B., Liu, Y., Hou, L., Darwish Murad, S., Levy, D., 2019. A Peripheral Blood DNA Methylation Signature of Hepatic Fat Reveals a Potential Causal Pathway for Nonalcoholic Fatty Liver Disease. *Diabetes* 68, 1073-1083.
- Maglio, C., Zhang, Y., Peltonen, M., Andersson-Assarsson, J., Svensson, P.A., Herder, C., Rudin, A., Carlsson, L., 2019. Bariatric surgery and the incidence of rheumatoid arthritis - a Swedish Obese Subjects study. *Rheumatology (Oxford)*.
- Mahling, M., Schork, A., Nadalin, S., Fritsche, A., Heyne, N., Guthoff, M., 2019. Sodium-Glucose Cotransporter 2 (SGLT2) Inhibition in Kidney Transplant Recipients with Diabetes Mellitus. *Kidney Blood Press Res* 44, 984-992.
- MahmoudianDehkordi, S., Arnold, M., Nho, K., Ahmad, S., Jia, W., Xie, G., Louie, G., Kueider-Paisley, A., Moseley, M.A., Thompson, J.W., St John Williams, L., Tenenbaum, J.D., Blach, C., Baillie, R., Han, X., Bhattacharyya, S., Toledo, J.B., Schafferer, S., Klein, S., Koal, T., Risacher, S.L., Kling, M.A., Motsinger-Reif, A., Rotroff, D.M., Jack, J., Hankemeier, T., Bennett, D.A., De Jager, P.L., Trojanowski, J.Q., Shaw, L.M., Weiner, M.W., Doraiswamy, P.M., van Duijn, C.M., Saykin, A.J., Kastenmuller, G., Kaddurah-Daouk, R., Alzheimer's Disease Neuroimaging, I., the Alzheimer Disease Metabolomics, C., 2019. Altered bile acid profile associates with cognitive impairment in Alzheimer's disease-An emerging role for gut microbiome. *Alzheimers Dement* 15, 76-92.
- Mameishvili, E., Serafimidis, I., Iwaszkiewicz, S., Lesche, M., Reinhardt, S., Bolicke, N., Buttner, M., Stellas, D., Papadimitropoulou, A., Szabolcs, M., Anastasiadis, K., Dahl, A., Theis, F., Efstratiadis, A., Gavalas, A., 2019. Aldh1b1 expression defines progenitor cells in the adult pancreas and is required for Kras-induced pancreatic cancer. *Proc Natl Acad Sci U S A* 116, 20679-20688.
- Marbach-Breittruck, E., Matz-Soja, M., Abraham, U., Schmidt-Heck, W., Sales, S., Rennert, C., Kern, M., Aleithe, S., Spormann, L., Thiel, C., Gerlini, R., Arnold, K., Kloting, N., Guthke, R., Rozman, D., Teperino, R., Shevchenko, A., Kramer, A., Gebhardt, R., 2019. Tick-tock hedgehog-mutual crosstalk with liver circadian clock promotes liver steatosis. *J Hepatol* 70, 1192-1202.
- Maresch, C.C., Stute, D.C., Fleming, T., Lin, J., Hammes, H.P., Linn, T., 2019. Hyperglycemia induces spermatogenic disruption via major pathways of diabetes pathogenesis. *Sci Rep* 9, 13074.
- Markus, M.R.P., Rospleszcz, S., Ittermann, T., Baumeister, S.E., Schipf, S., Siewert-Markus, U., Lorbeer, R., Storz, C., Ptushkina, V., Peters, A., Meisinger, C., Bamberg, F., Nauck, M., Bahls, M., Volzke, H., Felix, S.B., Bulow, R., Rathmann, W., Dorr, M., 2019. Glucose and insulin levels are associated with arterial stiffness and concentric remodeling of the heart. *Cardiovasc Diabetol* 18, 145.
- Masuch, A., Budde, K., Kastenmuller, G., Artati, A., Adamski, J., Volzke, H., Nauck, M., Pietzner, M., 2019. Metabolic signature associated with parameters of the complete blood count in apparently healthy individuals. *J Cell Mol Med* 23, 5144-5153.
- Matejka, K., Stuckler, F., Salomon, M., Ensenauer, R., Reischl, E., Hoerburger, L., Grallert, H., Kastenmuller, G., Peters, A., Daniel, H., Krumsiek, J., Theis, F.J., Hauner, H., Laumen, H., 2019. Dynamic modelling of an ACADS genotype in fatty acid oxidation - Application of cellular models for the analysis of common genetic variants. *PLoS One* 14, e0216110.
- Meagan Littrell, O., Stoeger, C., Maier, H., Fuchs, H., Hrabe de Angelis, M., Cassis, L.A., Gerhardt, G.A., Grondin, R., Gailus-Durner, V., 2019. Costs of Implementing Quality in Research Practice. *Handb Exp Pharmacol*.



- Mehta, P., Fahlbusch, F.B., Rades, D., Schmid, S.M., Gebauer, J., Janssen, S., 2019. Are hypothalamic- pituitary (HP) axis deficiencies after whole brain radiotherapy (WBRT) of relevance for adult cancer patients? - a systematic review of the literature. *BMC Cancer* 19, 1213.
- Meisinger, C., Rospleszcz, S., Wintermeyer, E., Lorbeer, R., Thorand, B., Bamberg, F., Peters, A., Schlett, C.L., Linseisen, J., 2019. Isocaloric Substitution of Dietary Carbohydrate Intake with Fat Intake and MRI-Determined Total Volumes of Visceral, Subcutaneous and Hepatic Fat Content in Middle-Aged Adults. *Nutrients* 11.
- Merkel, M., Schmid, S.M., Iwen, K.A., 2019. [Physiology and clinical importance of white, beige and brown adipose tissue]. *Internist (Berl)* 60, 115-121.
- Meydan, S., Marks, J., Klepacki, D., Sharma, V., Baranov, P.V., Firth, A.E., Margus, T., Kefi, A., Vazquez-Laslop, N., Mankin, A.S., 2019. Retapamulin-Assisted Ribosome Profiling Reveals the Alternative Bacterial Proteome. *Mol Cell* 74, 481-493 e486.
- Meyhofer, S., Schmid, S.M., Hohl, M., Reil, J.C., 2019a. Disturbed ventricular-arterial coupling and increased left atrial stiffness in a patient with heart failure with preserved ejection fraction and hyperaldosteronism: a case report. *Eur Heart J Case Rep* 3, 1-6.
- Meyhofer, S., Wilms, B., Oster, H., Schmid, S.M., 2019b. [Importance of sleep and circadian rhythm for energy metabolism]. *Internist (Berl)* 60, 122-127.
- Mir, A.A., Dyar, K.A., Greulich, F., Quagliarini, F., Jouffe, C., Hubert, M.J., Hemmer, M.C., Uhlenhaut, N.H., 2019. In Vivo ChIP-Seq of Nuclear Receptors: A Rough Guide to Transform Frozen Tissues into High-Confidence Genome-Wide Binding Profiles. *Methods Mol Biol* 1966, 39-70.
- Mirea, A.M., Toonen, E.J.M., van den Munckhof, I., Munsterman, I.D., Tjwa, E., Jaeger, M., Oosting, M., Schraa, K., Rutten, J.H.W., van der Graaf, M., Riksen, N.P., de Graaf, J., Netea, M.G., Tack, C.J., Chavakis, T., Joosten, L.A.B., 2019. Increased proteinase 3 and neutrophil elastase plasma concentrations are associated with non-alcoholic fatty liver disease (NAFLD) and type 2 diabetes. *Mol Med* 25, 16.
- Mitry, P., Wawro, N., Sharma, S., Kriebel, J., Artati, A., Adamski, J., Heier, M., Meisinger, C., Thorand, B., Grallert, H., Peters, A., Linseisen, J., 2019a. Associations between usual food intake and faecal sterols and bile acids: results from the Cooperative Health Research in the Augsburg Region (KORA FF4) study. *Br J Nutr* 122, 309-321.
- Mitry, P., Wawro, N., Six-Merker, J., Zoller, D., Jourdan, C., Meisinger, C., Thierry, S., Nothlings, U., Knuppel, S., Boeing, H., Linseisen, J., 2019b. Usual Dietary Intake Estimation Based on a Combination of Repeated 24-H Food Lists and a Food Frequency Questionnaire in the KORA FF4 Cross-Sectional Study. *Front Nutr* 6, 145.
- Modafferi, S., Ries, M., Calabrese, V., Schmitt, C.P., Nawroth, P., Kopf, S., Peters, V., 2019. Clinical Trials on Diabetic Nephropathy: A Cross-Sectional Analysis. *Diabetes Ther* 10, 229-243.
- Monkemoller, K., Muller-Godeffroy, E., Lilienthal, E., Heidtmann, B., Becker, M., Feldhahn, L., Freff, M., Hilgard, D., Krone, B., Papsch, M., Schumacher, A., Schwab, K.O., Schweiger, H., Wolf, J., Bollow, E., Holl, R.W., 2019. The association between socio-economic status and diabetes care and outcome in children with diabetes type 1 in Germany: The DIAS study (diabetes and social disparities). *Pediatr Diabetes* 20, 637-644.
- Moro Chao, D.H., Wang, Y., Foppen, E., Ottenhoff, R., van Roomen, C., Parlevliet, E.T., van Eijk, M., Verhoek, M., Boot, R., Marques, A.R., Scheij, S., Mirzaian, M., Kooijman, S., Jansen, K., Wang, D., Mergen, C., Seeley, R.J., Tschop, M.H., Overkleeft, H., Rensen, P.C.N., Kalsbeek, A., Aerts, J., Yi, C.X., 2019. The Iminosugar AMP-DNM Improves Satiety and Activates Brown Adipose Tissue Through GLP1. *Diabetes*.
- Mroz, P.A., Finan, B., Gelfanov, V., Yang, B., Tschop, M.H., DiMarchi, R.D., Perez-Tilve, D., 2019. Optimized GIP analogs promote body weight lowering in mice through GIPR agonism not antagonism. *Mol Metab* 20, 51-62.
- Muhlbacher, T., Beck, R., Nadalin, S., Heyne, N., Guthoff, M., 2019. Low-dose cidofovir and conversion to mTOR-based immunosuppression in polyomavirus-associated nephropathy. *Transpl Infect Dis*, e13228.
- Muller, G.A., Herling, A.W., Stemmer, K., Lechner, A., Tschop, M.H., 2019a. Chip-based sensing for release of unprocessed cell surface proteins in vitro and in serum and its (patho)physiological relevance. *Am J Physiol Endocrinol Metab* 317, E212-E233.



- Muller, T.D., Finan, B., Bloom, S.R., D'Alessio, D., Drucker, D.J., Flatt, P.R., Fritsche, A., Gribble, F., Grill, H.J., Habener, J.F., Holst, J.J., Langhans, W., Meier, J.J., Nauck, M.A., Perez-Tilve, D., Pocai, A., Reimann, F., Sandoval, D.A., Schwartz, T.W., Seeley, R.J., Stemmer, K., Tang-Christensen, M., Woods, S.C., DiMarchi, R.D., Tschop, M.H., 2019b. Glucagon-like peptide 1 (GLP-1). *Mol Metab* 30, 72-130.
- Nagl, K., Bollow, E., Liptay, S., Rosenbauer, J., Koletzko, S., Pappa, A., Nake, A., Frohlich-Reiterer, E., Doring, C., Wolf, J., Salfeld, P., Prinz, N., 2019. Lower HbA1c in patients with type 1 diabetes and celiac disease who reached celiac-specific antibody-negativity-A multicenter DPV analysis. *Pediatr Diabetes* 20, 1100-1109.
- Neuenschwander, M., Ballon, A., Weber, K.S., Norat, T., Aune, D., Schwingshackl, L., Schlesinger, S., 2019. Role of diet in type 2 diabetes incidence: umbrella review of meta-analyses of prospective observational studies. *BMJ* 366, l2368.
- Nho, K., Kueider-Paisley, A., Ahmad, S., MahmoudianDehkordi, S., Arnold, M., Risacher, S.L., Louie, G., Blach, C., Baillie, R., Han, X., Kastenmuller, G., Trojanowski, J.Q., Shaw, L.M., Weiner, M.W., Doraiswamy, P.M., van Duijn, C., Saykin, A.J., Kaddurah-Daouk, R., Alzheimer's Disease Neuroimaging, I., the Alzheimer Disease Metabolomics, C., 2019a. Association of Altered Liver Enzymes With Alzheimer Disease Diagnosis, Cognition, Neuroimaging Measures, and Cerebrospinal Fluid Biomarkers. *JAMA Netw Open* 2, e197978.
- Nho, K., Kueider-Paisley, A., MahmoudianDehkordi, S., Arnold, M., Risacher, S.L., Louie, G., Blach, C., Baillie, R., Han, X., Kastenmuller, G., Jia, W., Xie, G., Ahmad, S., Hankemeier, T., van Duijn, C.M., Trojanowski, J.Q., Shaw, L.M., Weiner, M.W., Doraiswamy, P.M., Saykin, A.J., Kaddurah-Daouk, R., Alzheimer's Disease Neuroimaging, I., the Alzheimer Disease Metabolomics, C., 2019b. Altered bile acid profile in mild cognitive impairment and Alzheimer's disease: Relationship to neuroimaging and CSF biomarkers. *Alzheimers Dement* 15, 232-244.
- Niersmann, C., Carstensen-Kirberg, M., Maalmi, H., Holleczeck, B., Roden, M., Brenner, H., Herder, C., Schottker, B., 2019a. Higher circulating omentin is associated with increased risk of primary cardiovascular events in individuals with diabetes. *Diabetologia*.
- Niersmann, C., Hauck, S.M., Kannenberg, J.M., Rohrig, K., von Toerne, C., Roden, M., Herder, C., Carstensen-Kirberg, M., 2019b. Omentin-regulated proteins combine a pro-inflammatory phenotype with an anti-inflammatory counterregulation in human adipocytes: A proteomics analysis. *Diabetes Metab Res Rev* 35, e3074.
- Nigro, C., Leone, A., Longo, M., Prevezano, I., Fleming, T.H., Nicolo, A., Parrillo, L., Spinelli, R., Formisano, P., Nawroth, P.P., Beguinot, F., Miele, C., 2019. Methylglyoxal accumulation de-regulates HoxA5 expression, thereby impairing angiogenesis in glyoxalase 1 knock-down mouse aortic endothelial cells. *Biochim Biophys Acta Mol Basis Dis* 1865, 73-85.
- Niu, L., Geyer, P.E., Wewer Albrechtsen, N.J., Gluud, L.L., Santos, A., Doll, S., Treit, P.V., Holst, J.J., Knop, F.K., Vilsboll, T., Junker, A., Sachs, S., Stemmer, K., Muller, T.D., Tschop, M.H., Hofmann, S.M., Mann, M., 2019. Plasma proteome profiling discovers novel proteins associated with non-alcoholic fatty liver disease. *Mol Syst Biol* 15, e8793.
- Noordam, R., Bos, M.M., Wang, H., Winkler, T.W., Bentley, A.R., Kilpelainen, T.O., de Vries, P.S., Sung, Y.J., Schwander, K., Cade, B.E., Manning, A., Aschard, H., Brown, M.R., Chen, H., Franceschini, N., Musani, S.K., Richard, M., Vojinovic, D., Aslibekyan, S.,, Amin, N., Cupples, L.A., Fornage, M., Fox, E.F., Guo, X., Gauderman, W.J., Rice, K., Kooperberg, C., Munroe, P.B., Liu, C.T., Morrison, A.C., Rao, D.C., van Heemst, D., Redline, S., 2019a. Multi-ancestry sleep-by-SNP interaction analysis in 126,926 individuals reveals lipid loci stratified by sleep duration. *Nat Commun* 10, 5121.
- Noordam, R., Young, W.J., Salman, R., Kanters, J.K., van den Berg, M.E., van Heemst, D., Lin, H.J., Barreto, S.M., Biggs, M.L., Biino, G., Catamo, E., Concas, M.P., Ding, J., Evans, D.S., Foco, L., Grarup, N., Lyytikainen, L.P., Mangino, M., Mei, H., van der Most, P.J.,, Rotter, J.I., Samani, N.J., Snieder, H., Spector, T.D., Stricker, B.H., Verweij, N., Wilson, J.F., Wilson, J.G., Jukema, J.W., Tinker, A., Newton-Cheh, C.H., Sotoodehnia, N., Mook-Kanamori, D.O., Munroe, P.B., Warren, H.R., 2019b. Effects of Calcium, Magnesium, and Potassium Concentrations on Ventricular Repolarization in Unselected Individuals. *J Am Coll Cardiol* 73, 3118-3131.
- Norheim, F., Hasin-Brumshtein, Y., Vergnes, L., Chella Krishnan, K., Pan, C., Seldin, M.M., Hui, S.T., Mehrabian, M., Zhou, Z., Gupta, S., Parks, B.W., Walch, A., Reue, K., Hofmann, S.M., Arnold, A.P., Lusis, A.J., 2019. Gene-by-Sex Interactions in Mitochondrial Functions and Cardio-Metabolic Traits. *Cell Metab* 29, 932-949 e934.



- Oluwagbemigun, K., Buyken, A.E., Alexy, U., Schmid, M., Herder, C., Nothlings, U., 2019. Developmental trajectories of body mass index from childhood into late adolescence and subsequent late adolescence-young adulthood cardiometabolic risk markers. *Cardiovasc Diabetol* 18, 9.
- Papaevgeniou, N., Hoehn, A., Tur, J.A., Klotz, L.O., Grune, T., Chondrogianni, N., 2019. Sugar-derived AGEs accelerate pharyngeal pumping rate and increase the lifespan of *Caenorhabditis elegans*. *Free Radic Res*, 1-12.
- Parhofer, K.G., Birkenfeld, A.L., Krone, W., Lehrke, M., Marx, N., Merkel, M., Schutt, K.S., Zirlik, A., Muller-Wieland, D., 2019. Position Paper on Lipid Therapy in Patients with Diabetes Mellitus. *Exp Clin Endocrinol Diabetes* 127, S97-S101.
- Parker, N., Vidal-Pineiro, D., French, L., Shin, J., Adams, H.H.H., Brodaty, H., Cox, S.R., Deary, I.J., Fjell, A.M., Frenzel, S., Grabe, H., Hosten, N., Ikram, M.A., Jiang, J., Knol, M.J., Mazoyer, B., Mishra, A., Sachdev, P.S., Salum, G., Satizabal, C.L., Schmidt, H., Schmidt, R., Seshadri, S., Schumann, G., Volzke, H., Walhovd, K.B., Wen, W., Wittfeld, K., Yang, Q., Dobbins, S., Pausova, Z., Paus, T., 2019. Corticosteroids and Regional Variations in Thickness of the Human Cerebral Cortex across the Lifespan. *Cereb Cortex*.
- Pedron, S., Emmert-Fees, K., Laxy, M., Schwettmann, L., 2019. The impact of diabetes on labour market participation: a systematic review of results and methods. *BMC Public Health* 19, 25.
- Penczynski, K.J., Herder, C., Krupp, D., Rienks, J., Egert, S., Wudy, S.A., Roden, M., Remer, T., Buyken, A.E., 2019. Flavonoid intake from fruit and vegetables during adolescence is prospectively associated with a favourable risk factor profile for type 2 diabetes in early adulthood. *Eur J Nutr* 58, 1159-1172.
- Penkov, S., Mitroulis, I., Hajishengallis, G., Chavakis, T., 2019. Immunometabolic Crosstalk: An Ancestral Principle of Trained Immunity? *Trends Immunol* 40, 1-11.
- Peters, A.S., Wortmann, M., Fleming, T.H., Nawroth, P.P., Bruckner, T., Bockler, D., Hakimi, M., 2019. Effect of metformin treatment in patients with type 2 diabetes with respect to glyoxalase 1 activity in atherosclerotic lesions. *Vasa* 48, 186-192.
- Petersmann, A., Muller-Wieland, D., Muller, U.A., Landgraf, R., Nauck, M., Freckmann, G., Heinemann, L., Schleicher, E., 2019. Definition, Classification and Diagnosis of Diabetes Mellitus. *Exp Clin Endocrinol Diabetes* 127, S1-S7.
- Petz, A., Grandoch, M., Gorski, D.J., Abrams, M., Piroth, M., Schneckmann, R., Homann, S., Muller, J., Hartwig, S., Lehr, S., Yamaguchi, Y., Wight, T.N., Gorresen, S., Ding, Z., Kotter, S., Kruger, M., Heinen, A., Kelm, M., Godecke, A., Fogel, U., Fischer, J.W., 2019. Cardiac Hyaluronan Synthesis Is Critically Involved in the Cardiac Macrophage Response and Promotes Healing After Ischemia Reperfusion Injury. *Circ Res* 124, 1433-1447.
- Phelan, H., Foster, N.C., Schwandt, A., Couper, J.J., Willi, S., Kroschwald, P., Jones, T.W., Wu, M., Steigleder-Schweiger, C., Craig, M.E., Maahs, D.M., Prinz, N., Australasian Diabetes Data Network Study Group, t.T.D.E.C.N., the Prospective Diabetes Follow-up Registry, i., 2019. Longitudinal trajectories of BMI z-score: an international comparison of 11,513 Australian, American and German/Austrian/Luxembourgian youth with type 1 diabetes. *Pediatr Obes*, e12582.
- Phielix, E., Begovatz, P., Gancheva, S., Bierwagen, A., Kornips, E., Schaart, G., Hesselink, M.K.C., Schrauwen, P., Roden, M., 2019. Athletes feature greater rates of muscle glucose transport and glycogen synthesis during lipid infusion. *JCI Insight* 4.
- Pietzner, M., Kohrle, J., Lehmpful, I., Budde, K., Kastenmuller, G., Brabant, G., Volzke, H., Artati, A., Adamski, J., Volker, U., Nauck, M., Friedrich, N., Homuth, G., 2019. A Thyroid Hormone-Independent Molecular Fingerprint of 3,5-Diiodothyronine Suggests a Strong Relationship with Coffee Metabolism in Humans. *Thyroid*.
- Pilleron, S., Weber, D., Peres, K., Colpo, M., Gomez-Cabrero, D., Stuetz, W., Dartigues, J.F., Ferrucci, L., Bandinelli, S., Garcia-Garcia, F.J., Grune, T., Feart, C., initiative, F., 2019. Patterns of circulating fat-soluble vitamins and carotenoids and risk of frailty in four European cohorts of older adults. *Eur J Nutr* 58, 379-389.
- Pinchuk, I., Weber, D., Kochlik, B., Stuetz, W., Toussaint, O., Debaq-Chainiaux, F., Dolle, M.E.T., Jansen, E., Gonos, E.S., Sikora, E., Breusing, N., Gradinaru, D., Sindlinger, T., Moreno-Villanueva, M., Burkle, A., Grune, T., Lichtenberg, D., 2019. Gender- and age-dependencies of oxidative stress, as detected based on the steady state concentrations of different biomarkers in the MARK-AGE study. *Redox Biol* 24, 101204.



- Potasso, L., Perakakis, N., Lamprinou, A., Polyzou, E., Kassanos, D., Peter, A., Path, G., Seufert, J., Laubner, K., 2019. Clinical Impact of the TCF7L2 Gene rs7903146 Type 2 Diabetes Mellitus Risk Polymorphism in Women with Gestational Diabetes Mellitus: Impaired Glycemic Control and Increased Need of Insulin Therapy. *Exp Clin Endocrinol Diabetes*.
- Prager, M., Kurz, C., Bohm, J., Laxy, M., Maier, W., 2019. Using data from online geocoding services for the assessment of environmental obesogenic factors: a feasibility study. *Int J Health Geogr* 18, 13.
- Press, M., Jung, T., König, J., Grune, T., Hohn, A., 2019. Protein aggregates and proteostasis in aging: Amylin and beta-cell function. *Mech Ageing Dev* 177, 46-54.
- Preuss, C., Jelenik, T., Bodis, K., Mussig, K., Burkart, V., Szendroedi, J., Roden, M., Markgraf, D.F., 2019. A New Targeted Lipidomics Approach Reveals Lipid Droplets in Liver, Muscle and Heart as a Repository for Diacylglycerol and Ceramide Species in Non-Alcoholic Fatty Liver. *Cells* 8.
- Prinz, N., Konrad, K., Brack, C., Hahn, E., Herbst, A., Icks, A., Grulich-Henn, J., Jorch, N., Kastendieck, C., Monkemoller, K., Razum, O., Steigleder-Schweiger, C., Witsch, M., Holl, R.W., 2019a. Diabetes care in pediatric refugees from Africa or Middle East: experiences from Germany and Austria based on real-world data from the DPV registry. *Eur J Endocrinol* 181, 31-38.
- Prinz, N., Zolin, A., Konrad, K., Nahrlich, L., Laubner, K., Olesen, H.V., Bauer, M., Jung, A., Frischer, T., Holl, R.W., registry, E.p., the, D.P.V.r., 2019b. Characteristics of cystic fibrosis-related diabetes: Data from two different sources the European cystic fibrosis society patient registry and German/Austrian diabetes prospective follow-up registry. *Pediatr Diabetes* 20, 255-262.
- Puttgen, S., Bonhof, G.J., Strom, A., Mussig, K., Szendroedi, J., Roden, M., Ziegler, D., 2019. Augmented Corneal Nerve Fiber Branching in Painful Compared With Painless Diabetic Neuropathy. *J Clin Endocrinol Metab* 104, 6220-6228.
- Quagliarini, F., Mir, A.A., Balazs, K., Wierer, M., Dyar, K.A., Jouffe, C., Makris, K., Hawe, J., Heinig, M., Filipp, F.V., Barish, G.D., Uhlenhaut, N.H., 2019. Cistromic Reprogramming of the Diurnal Glucocorticoid Hormone Response by High-Fat Diet. *Mol Cell*.
- Quell, J.D., Romisch-Margl, W., Haid, M., Krumsiek, J., Skurk, T., Halama, A., Stephan, N., Adamski, J., Hauner, H., Mook-Kanamori, D., Mohny, R.P., Daniel, H., Suhre, K., Kastenmuller, G., 2019. Characterization of Bulk Phosphatidylcholine Compositions in Human Plasma Using Side-Chain Resolving Lipidomics. *Metabolites* 9.
- Quiclet, C., Dittberner, N., Gassler, A., Stadion, M., Gerst, F., Helms, A., Baumeier, C., Schulz, T.J., Schurmann, A., 2019. Pancreatic adipocytes mediate hypersecretion of insulin in diabetes-susceptible mice. *Metabolism* 97, 9-17.
- Rabel, M., Mess, F., Karl, F.M., Pedron, S., Schwettmann, L., Peters, A., Heier, M., Laxy, M., 2019. Change in Physical Activity after Diagnosis of Diabetes or Hypertension: Results from an Observational Population-Based Cohort Study. *Int J Environ Res Public Health* 16.
- Rado, S.D., Lorbeer, R., Gatidis, S., Machann, J., Storz, C., Nikolaou, K., Rathmann, W., Hoffmann, U., Peters, A., Bamberg, F., Schlett, C.L., 2019. MRI-based assessment and characterization of epicardial and paracardial fat depots in the context of impaired glucose metabolism and subclinical left-ventricular alterations. *Br J Radiol* 92, 20180562.
- Raguin, E., Drapeau, M.S.M., 2019. Relation between cross-sectional bone geometry and double zonal osteon frequency and morphology. *Am J Phys Anthropol*.
- Rajendran, J., Purhonen, J., Tegelberg, S., Smolander, O.P., Morgelin, M., Rozman, J., Gailus-Durner, V., Fuchs, H., Hrabe de Angelis, M., Auvinen, P., Mervaala, E., Jacobs, H.T., Szibor, M., Fellman, V., Kallijarvi, J., 2019. Alternative oxidase-mediated respiration prevents lethal mitochondrial cardiomyopathy. *EMBO Mol Med* 11.
- Randrianarisoa, E., Lehn-Stefan, A., Hieronimus, A., Rietig, R., Fritsche, A., Machann, J., Balletshofer, B., Haring, H.U., Stefan, N., Rittig, K., 2019a. Visceral Adiposity Index as an Independent Marker of Subclinical Atherosclerosis in Individuals Prone to Diabetes Mellitus. *J Atheroscler Thromb* 26, 821-834.



- Randrianarisoa, E., Lehn-Stefan, A., Krier, J., Bohm, A., Heni, M., Hrabe de Angelis, M., Fritsche, A., Haring, H.U., Stefan, N., Staiger, H., 2019b. AMPK subunits harbor largely non-overlapping genetic determinants for body fat mass, glucose- and cholesterol metabolism. *J Clin Endocrinol Metab.*
- Rasmussen, V.F., Vestergaard, E.T., Schwandt, A., Beltrand, J., Rami-Merhar, B., O'Riordan, S.M.P., Jarosz-Chobot, P., Castro-Correia, C., Gevers, E.F., Birkebaek, N.H., 2019. Proportion of Basal to Total Insulin Dose Is Associated with Metabolic Control, Body Mass Index, and Treatment Modality in Children with Type 1 Diabetes-A Cross-Sectional Study with Data from the International SWEET Registry. *J Pediatr.*
- Rathmann, W., Schwandt, A., Hermann, J.M., Kuss, O., Roden, M., Laubner, K., Best, F., Ebner, S., Plaumann, M., Holl, R.W., Initiative, D.P.V., 2019a. Distinct trajectories of HbA1c in newly diagnosed Type 2 diabetes from the DPV registry using a longitudinal group-based modelling approach. *Diabet Med* 36, 1468-1477.
- Rathmann, W., Strassburger, K., Bongaerts, B., Kuss, O., Mussig, K., Burkart, V., Szendroedi, J., Kotzka, J., Knebel, B., Al-Hasani, H., Roden, M., Group, G.D.S., 2019b. A variant of the glucose transporter gene SLC2A2 modifies the glycaemic response to metformin therapy in recently diagnosed type 2 diabetes. *Diabetologia* 62, 286-291.
- Raupbach, J., Ott, C., Koenig, J., Grune, T., 2019. Proteasomal degradation of glycated proteins depends on substrate unfolding: Preferred degradation of moderately modified myoglobin. *Free Radic Biol Med.*
- Reinehr, T., Dieris, B., Galler, A., Teufel, M., Berger, G., Stachow, R., Golembowski, S., Ohlenschlager, U., Holder, M., Hummel, M., Holl, R.W., Prinz, N., 2019. Worse Metabolic Control and Dynamics of Weight Status in Adolescent Girls Point to Eating Disorders in the First Years after Manifestation of Type 1 Diabetes Mellitus: Findings from the Diabetes Patienten Verlaufsdokumentation Registry. *J Pediatr* 207, 205-212 e205.
- Renner, S., Martins, A.S., Streckel, E., Braun-Reichhart, C., Backman, M., Prehn, C., Klymiuk, N., Bahr, A., Blutke, A., Landbrecht-Schessl, C., Wunsch, A., Kessler, B., Kurome, M., Hinrichs, A., Koopmans, S.J., Krebs, S., Kemter, E., Rathkolb, B., Nagashima, H., Blum, H., Ritzmann, M., Wanke, R., Aigner, B., Adamski, J., Hrabe de Angelis, M., Wolf, E., 2019. Mild maternal hyperglycemia in INS (C93S) transgenic pigs causes impaired glucose tolerance and metabolic alterations in neonatal offspring. *Dis Model Mech* 12.
- Riedl, A., Wawro, N., Gieger, C., Meisinger, C., Peters, A., Rathmann, W., Koenig, W., Strauch, K., Quante, A.S., Thorand, B., Huth, C., Daniel, H., Hauner, H., Linseisen, J., 2019. Modifying effect of metabotype on diet-diabetes associations. *Eur J Nutr.*
- Rietig, R., Hudak, S., Hieronimus, A., Lehn-Stefan, A., Balletshofer, B., Haring, H.U., Syha, R., Randrianarisoa, E., 2019. Acquired arteriovenous fistula of a finger. *Vasa* 48, 368-370.
- Rizner, T.L., Adamski, J., 2019. Paramount importance of sample quality in pre-clinical and clinical research-Need for standard operating procedures (SOPs). *J Steroid Biochem Mol Biol* 186, 1-3.
- Roden, M., Shulman, G.I., 2019. The integrative biology of type 2 diabetes. *Nature* 576, 51-60.
- Rojo Arias, J.E., Economopoulou, M., Juarez Lopez, D.A., Kurzbach, A., Au Yeung, K.H., Englmaier, V., Merdau, M., Schaarschmidt, M., Ader, M., Morawietz, H., Funk, R.H.W., Jaszai, J., 2019. VEGF-Trap is a potent modulator of vasoregenerative responses and protects dopaminergic amacrine network integrity in degenerative ischemic neovascular retinopathy. *J Neurochem.*
- Romacho, T., Sell, H., Indrakusuma, I., Roehrborn, D., Castaneda, T.R., Jelenik, T., Markgraf, D., Hartwig, S., Weiss, J., Al-Hasani, H., Roden, M., Eckel, J., 2019. DPP4 deletion in adipose tissue improves hepatic insulin sensitivity in diet-induced obesity. *Am J Physiol Endocrinol Metab.*
- Rospleszcz, S., Lorbeer, R., Storz, C., Schlett, C.L., Meisinger, C., Thorand, B., Rathmann, W., Bamberg, F., Lieb, W., Peters, A., 2019. Association of longitudinal risk profile trajectory clusters with adipose tissue depots measured by magnetic resonance imaging. *Sci Rep* 9, 16972.
- Rothe, M., Jahn, A., Weiss, K., Hwang, J.H., Szendroedi, J., Kelm, M., Schrader, J., Roden, M., Flogel, U., Bonner, F., 2019. In vivo (19)F MR inflammation imaging after myocardial infarction in a large animal model at 3 T. *MAGMA* 32, 5-13.



- Russkamp, D., Aguilar-Pimentel, A., Alessandrini, F., Gailus-Durner, V., Fuchs, H., Ohnmacht, C., Chaker, A., de Angelis, M.H., Ollert, M., Schmidt-Weber, C.B., Blank, S., 2019. IL-4 receptor alpha blockade prevents sensitization and alters acute and long-lasting effects of allergen-specific immunotherapy of murine allergic asthma. *Allergy* 74, 1549-1560.
- Ruud, J., Alber, J., Tokarska, A., Engstrom Ruud, L., Nolte, H., Biglari, N., Lippert, R., Lautenschlager, A., Cieslak, P.E., Szumiec, L., Hess, M.E., Bronneke, H.S., Kruger, M., Nissbrandt, H., Korotkova, T., Silberberg, G., Rodriguez Parkitna, J., Bruning, J.C., 2019. The Fat Mass and Obesity-Associated Protein (FTO) Regulates Locomotor Responses to Novelty via D2R Medium Spiny Neurons. *Cell Rep* 27, 3182-3198 e3189.
- Sacco, F., Seelig, A., Humphrey, S.J., Kraemer, N., Volta, F., Reggio, A., Marchetti, P., Gerdes, J., Mann, M., 2019. Phosphoproteomics Reveals the GSK3-PDX1 Axis as a Key Pathogenic Signaling Node in Diabetic Islets. *Cell Metab* 29, 1422-1432 e1423.
- Sachdeva, R., Fleming, T., Schumacher, D., Homberg, S., Stilz, K., Mohr, F., Wagner, A.H., Tsvilovskyy, V., Mathar, I., Freichel, M., 2019. Methylglyoxal evokes acute Ca(2+) transients in distinct cell types and increases agonist-evoked Ca(2+) entry in endothelial cells via CRAC channels. *Cell Calcium* 78, 66-75.
- Sachs, S., Zarini, S., Kahn, D.E., Harrison, K.A., Perreault, L., Phang, T., Newsom, S.A., Strauss, A., Kerege, A., Schoen, J.A., Bessesen, D.H., Schwarzmayr, T., Graf, E., Lutter, D., Krumsiek, J., Hofmann, S.M., Bergman, B.C., 2019. Intermuscular adipose tissue directly modulates skeletal muscle insulin sensitivity in humans. *Am J Physiol Endocrinol Metab* 316, E866-E879.
- Salinno, C., Cota, P., Bastidas-Ponce, A., Tarquis-Medina, M., Lickert, H., Bakhti, M., 2019. beta-Cell Maturation and Identity in Health and Disease. *Int J Mol Sci* 20.
- Santiago, J.C.P., Hallschmid, M., 2019. Outcomes and clinical implications of intranasal insulin administration to the central nervous system. *Exp Neurol* 317, 180-190.
- Santiago, J.C.P., Ngo, H.V., Jickeli, C., Peter, A., Hallschmid, M., 2019. Intensifying sleep slow oscillations does not improve metabolic control in healthy men. *Psychoneuroendocrinology* 99, 1-7.
- Sarabhai, T., Roden, M., 2019. Hungry for your alanine: when liver depends on muscle proteolysis. *J Clin Invest* 129, 4563-4566.
- Saussenthaler, S., Ouni, M., Baumeier, C., Schwerbel, K., Gottmann, P., Christmann, S., Laeger, T., Schurmann, A., 2019. Epigenetic regulation of hepatic Dpp4 expression in response to dietary protein. *J Nutr Biochem* 63, 109-116.
- Scheiber, D., Jelenik, T., Zweck, E., Horn, P., Schultheiss, H.P., Lassner, D., Boeken, U., Saeed, D., Kelm, M., Roden, M., Westenfeld, R., Szendroedi, J., 2019a. High-resolution respirometry in human endomyocardial biopsies shows reduced ventricular oxidative capacity related to heart failure. *Exp Mol Med* 51, 16.
- Scheiber, D., Zweck, E., Jelenik, T., Horn, P., Albermann, S., Masyuk, M., Boeken, U., Saeed, D., Kelm, M., Roden, M., Szendroedi, J., Westenfeld, R., 2019b. Reduced Myocardial Mitochondrial ROS Production in Mechanically Unloaded Hearts. *J Cardiovasc Transl Res* 12, 107-115.
- Scheibner, K., Bakhti, M., Bastidas-Ponce, A., Lickert, H., 2019. Wnt signaling: implications in endoderm development and pancreas organogenesis. *Curr Opin Cell Biol* 61, 48-55.
- Scheideler, M., 2019. Regulatory Small and Long Noncoding RNAs in Brite/Brown Adipose Tissue. *Handb Exp Pharmacol* 251, 215-237.
- Scheideler, M., Vidakovic, I., Prassl, R., 2019. Lipid Nanocarriers for microRNA Delivery. *Chem Phys Lipids*, 104837.
- Schemmert, S., Schartmann, E., Zafiu, C., Kass, B., Hartwig, S., Lehr, S., Bannach, O., Langen, K.J., Shah, N.J., Kutzsche, J., Willuweit, A., Willbold, D., 2019. Abeta Oligomer Elimination Restores Cognition in Transgenic Alzheimer's Mice with Full-blown Pathology. *Mol Neurobiol* 56, 2211-2223.
- Schenk, M., Eichelmann, F., Schulze, M.B., Rudovich, N., Pfeiffer, A.F., di Giuseppe, R., Boeing, H., Aleksandrova, K., 2019. Reproducibility of novel immune-inflammatory biomarkers over 4 months: an analysis with repeated measures design. *Biomark Med* 13, 639-648.



- Scherm, M.G., Serr, I., Kaestner, K.H., Daniel, C., 2019a. The role of T cell miRNAs for regulatory T cell induction in islet autoimmunity. *Mol Metab* 27S, S122-S128.
- Scherm, M.G., Serr, I., Zahm, A.M., Schug, J., Bellusci, S., Manfredini, R., Salb, V.K., Gerlach, K., Weigmann, B., Ziegler, A.G., Kaestner, K.H., Daniel, C., 2019b. miRNA142-3p targets Tet2 and impairs Treg differentiation and stability in models of type 1 diabetes. *Nat Commun* 10, 5697.
- Schlesinger, S., Herder, C., Kannenberg, J.M., Huth, C., Carstensen-Kirberg, M., Rathmann, W., Bonhof, G.J., Koenig, W., Heier, M., Peters, A., Meisinger, C., Roden, M., Thorand, B., Ziegler, D., 2019. General and Abdominal Obesity and Incident Distal Sensorimotor Polyneuropathy: Insights Into Inflammatory Biomarkers as Potential Mediators in the KORA F4/FF4 Cohort. *Diabetes Care* 42, 240-247.
- Schmitt, F.C.F., Manolov, V., Morgenstern, J., Fleming, T., Heitmeier, S., Uhle, F., Al-Saeedi, M., Hackert, T., Bruckner, T., Schochl, H., Weigand, M.A., Hofer, S., Brenner, T., 2019. Acute fibrinolysis shutdown occurs early in septic shock and is associated with increased morbidity and mortality: results of an observational pilot study. *Ann Intensive Care* 9, 19.
- Schmohl, F., Peters, V., Schmitt, C.P., Poschet, G., Buttner, M., Li, X., Weigand, T., Poth, T., Volk, N., Morgenstern, J., Fleming, T., Nawroth, P.P., Kroll, J., 2019. CNDP1 knockout in zebrafish alters the amino acid metabolism, restrains weight gain, but does not protect from diabetic complications. *Cell Mol Life Sci* 76, 4551-4568.
- Schmolinsky, J., Kocher, T., Rathmann, W., Volzke, H., Pink, C., Holtfreter, B., 2019. Diabetes status affects long-term changes in coronal caries - The SHIP Study. *Sci Rep* 9, 15685.
- Schob, C., Morellini, F., Ohana, O., Bakota, L., Hrynychak, M.V., Brandt, R., Brockmann, M.D., Cichon, N., Hartung, H., Hanganu-Opatz, I.L., Kraus, V., Scharf, S., Herrmans-Borgmeyer, I., Schweizer, M., Kuhl, D., Woehr, M., Vorckel, K.J., Calzada-Wack, J., Fuchs, H., Gailus-Durner, V., Hrabe de Angelis, M., Garner, C.C., Kreienkamp, H.J., Kindler, S., 2019. Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice. *Transl Psychiatry* 9, 7.
- Schork, A., Saynisch, J., Vosseler, A., Jaghutriz, B.A., Heyne, N., Peter, A., Haring, H.U., Stefan, N., Fritsche, A., Artunc, F., 2019. Effect of SGLT2 inhibitors on body composition, fluid status and renin-angiotensin-aldosterone system in type 2 diabetes: a prospective study using bioimpedance spectroscopy. *Cardiovasc Diabetol* 18, 46.
- Schott, M., S, R.B., C, A.S., 2019. Hormone and Metabolic Research: 50 Years of Research. *Horm Metab Res* 51, 8-10.
- Schroder, K., Szendroedi, J., Benthin, A., Gontscharuk, V., Ackermann, P., Volker, M., Steingrube, N., Nowotny, B., Ziegler, D., Mussig, K., Geerling, G., Kuss, O., Roden, M., Guthoff, R., Cohort, G.D.S., 2019. German Diabetes Study - Baseline data of retinal layer thickness measured by SD-OCT in early diabetes mellitus. *Acta Ophthalmol* 97, e303-e307.
- Schulze, M.B., 2019. Metabolic health in normal-weight and obese individuals. *Diabetologia* 62, 558-566.
- Segal, J., Mulleder, M., Kruger, A., Adler, T., Scholze-Wittler, M., Becker, L., Calzada-Wack, J., Garrett, L., Holter, S.M., Rathkolb, B., Rozman, J., Racz, I., Fischer, R., Busch, D.H., Neff, F., Klingenspor, M., Klopstock, T., Gruning, N.M., Michel, S., Lukaszewska-McGreal, B., Voigt, I., Hartmann, L., Timmermann, B., Lehrach, H., Wolf, E., Wurst, W., Gailus-Durner, V., Fuchs, H., M, H.d.A., Schrewe, H., Yuneva, M., Ralser, M., 2019. Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. *J Inherit Metab Dis* 42, 839-849.
- Selig, J.I., Ouwens, D.M., Raschke, S., Thoresen, G.H., Fischer, J.W., Lichtenberg, A., Akhyari, P., Barth, M., 2019. Impact of hyperinsulinemia and hyperglycemia on valvular interstitial cells - A link between aortic heart valve degeneration and type 2 diabetes. *Biochim Biophys Acta Mol Basis Dis* 1865, 2526-2537.
- Seyfarth, J., Herebian, D., Reinauer, C., Baechle, C., Roden, M., Holl, R.W., Reinehr, T., Mayatepek, E., Meissner, T., Rosenbauer, J., 2019a. Evaluation of lipoprotein-associated phospholipase A2 as a marker for renal microvasculopathy in adolescents with Type 1 diabetes. *Diabet Med*.
- Seyfarth, J., Mutze, N., Antony Cruz, J., Kummer, S., Reinauer, C., Mayatepek, E., Meissner, T., Jacobsen, M., 2019b. CD4(+) T-Cells With High Common gamma Chain Expression and Disturbed Cytokine Production Are Enriched in Children With Type-1 Diabetes. *Front Immunol* 10, 820.



Seyfarth, J., Sarfo-Kantanka, O., Rosenbauer, J., Phillips, R.O., Jacobsen, M., 2019c. Type-1 diabetes onset age and sex differences between Ghanaian and German urban populations. *J Diabetes*.

Sharma, V., Hiller, M., 2019. Coding Exon-Structure Aware Realigner (CESAR): Utilizing Genome Alignments for Comparative Gene Annotation. *Methods Mol Biol* 1962, 179-191.

Simon, M.C., Moller-Horigome, A., Strassburger, K., Nowotny, B., Knebel, B., Mussig, K., Herder, C., Szendroedi, J., Roden, M.W., German Diabetes Study, G., 2019. Correlates of Insulin-Stimulated Glucose Disposal in Recent-Onset Type 1 and Type 2 Diabetes. *J Clin Endocrinol Metab* 104, 2295-2304.

Sippel, K., Moser, J., Schleger, F., Preissl, H., Rosenstiel, W., Spuler, M., 2019. Fully Automated R-peak Detection Algorithm (FLORA) for fetal magnetoencephalographic data. *Comput Methods Programs Biomed* 173, 35-41.

Skaaby, T., Kilpelainen, T.O., Taylor, A.E., Mahendran, Y., Wong, A., Ahluwalia, T.S., Paternoster, L., Trompet, S., Stott, D.J., Flexeder, C., Zhou, A., Brusselle, G., Sajjad, A., Lahousse, L., Tiemeier, H., Have, C.T., Thuesen, B.H., Karhus, L.L., Mollehave, L.T., Leth-Moller, K.B., Shabanzadeh, D.M., Gonzalez-Quintela, A., Power, C., Hypponen, E., Kuh, D., Hardy, R., Meitinger, T., Jukema, J.W., Volker, U., Nauck, M., Volzke, H., Friedrich, N., Bonten, T.N., Noordam, R., Mook-Kanamori, D.O., Tolstrup, J.S., Taube, C., Peters, A., Grallert, H., Strauch, K., Schulz, H., Grarup, N., Hansen, T., Pedersen, O., Burgess, S., Munafò, M.R., Linneberg, A., 2019. Association of alcohol consumption with allergic disease and asthma: a multi-centre Mendelian randomization analysis. *Addiction* 114, 216-225.

Sluka, S.H.M., Stampfli, S.F., Akhmedov, A., Klein-Rodewald, T., Sanz-Moreno, A., Horsch, M., Grest, P., Rothmeier, A.S., Rathkolb, B., Schrewe, A., Beckers, J., Neff, F., Wolf, E., Camici, G.G., Fuchs, H., Gailus-Durner, V., Hrabe de Angelis, M., Luscher, T.F., Ruf, W., Tanner, F.C., 2019. Murine tissue factor disulfide mutation causes a bleeding phenotype with sex specific organ pathology and lethality. *Haematologica*.

Smeets, P.A.M., Dagher, A., Hare, T.A., Kullmann, S., van der Laan, L.N., Poldrack, R.A., Preissl, H., Small, D., Stice, E., Veldhuizen, M.G., 2019. Good practice in food-related neuroimaging. *Am J Clin Nutr* 109, 491-503.

Smirnov, K.S., Forcisi, S., Moritz, F., Lucio, M., Schmitt-Kopplin, P., 2019. Mass Difference Maps and Their Application for the Recalibration of Mass Spectrometric Data in Nontargeted Metabolomics. *Anal Chem* 91, 3350-3358.

Solga, R., Behrens, J., Ziemann, A., Riou, A., Berwanger, C., Becker, L., Garrett, L., de Angelis, M.H., Fischer, L., Coras, R., Barkovits, K., Marcus, K., Mahabir, E., Eichinger, L., Schroder, R., Noegel, A.A., Clemen, C.S., German Mouse Clinic, C., 2019. CRN2 binds to TIMP4 and MMP14 and promotes perivascular invasion of glioblastoma cells. *Eur J Cell Biol*, 151046.

Song, K., Gras, C., Capin, G., Gimber, N., Lehmann, M., Mohd, S., Puchkov, D., Rodiger, M., Wilhelmi, I., Daumke, O., Schmoranzler, J., Schurmann, A., Krauss, M., 2019. A SEPT1-based scaffold is required for Golgi integrity and function. *J Cell Sci* 132.

Spracklen, C.N., Karaderi, T., Yaghootkar, H., Schurmann, C., Fine, R.S., Kutalik, Z., Preuss, M.H., Lu, Y., Wittemans, L.B.L., Adair, L.S., Allison, M., Amin, N., Auer, P.L., Bartz, T.M., Bluher, M., Boehnke, M., Borja, J.B., Bork-Jensen, J., Broer, L., Chasman, D.I., Spector, T.D., Strauch, K., Stumvoll, M., Taylor, K.D., Thuesen, B., Tonjes, A., Uitterlinden, A.G., Venturini, C., Walker, M., Wang, C.A., Wang, S., Wareham, N.J., Willems, S.M., Willems van Dijk, K., Wilson, J.G., Wu, Y., Yao, J., Young, K.L., Langenberg, C., Frayling, T.M., Kilpelainen, T.O., Lindgren, C.M., Loos, R.J.F., Mohlke, K.L., 2019. Exome-Derived Adiponectin-Associated Variants Implicate Obesity and Lipid Biology. *Am J Hum Genet* 105, 15-28.

St John-Williams, L., Mahmoudiandehkordi, S., Arnold, M., Massaro, T., Blach, C., Kastenmuller, G., Louie, G., Kueider-Paisley, A., Han, X., Baillie, R., Motsinger-Reif, A.A., Rotroff, D., Nho, K., Saykin, A.J., Risacher, S.L., Koal, T., Moseley, M.A., Tenenbaum, J.D., Thompson, J.W., Kaddurah-Daouk, R., Alzheimer's Disease Neuroimaging, I., Alzheimer's Disease Metabolomics, C., 2019. Bile acids targeted metabolomics and medication classification data in the ADNI1 and ADNI2 cohorts. *Sci Data* 6, 212.

Stahl-Pehe, A., Glaubitz, L., Bachle, C., Lange, K., Castillo, K., Tonnies, T., Yossa, R., Holl, R.W., Rosenbauer, J., 2019. Diabetes distress in young adults with early-onset Type 1 diabetes and its prospective relationship with HbA1c and health status. *Diabet Med* 36, 836-846.



- Stangl, A., Elliott, P.R., Pinto-Fernandez, A., Bonham, S., Harrison, L., Schaub, A., Kutzner, K., Keusekotten, K., Pfluger, P.T., El Oualid, F., Kessler, B.M., Komander, D., Krappmann, D., 2019. Regulation of the endosomal SNX27-retromer by OTULIN. *Nat Commun* 10, 4320.
- Stefan, N., Haring, H.U., Cusi, K., 2019. Non-alcoholic fatty liver disease: causes, diagnosis, cardiometabolic consequences, and treatment strategies. *Lancet Diabetes Endocrinol* 7, 313-324.
- Stefan, N., Roden, M., 2019. Diabetes and Fatty Liver. *Exp Clin Endocrinol Diabetes* 127, S93-S96.
- Steffen, A., Chamorro, R., Buyny, L., Windjager, A., Wilms, B., Hasselbacher, K., Wollenberg, B., Lehnert, H., Schmid, S.M., 2019. Upper airway stimulation in obstructive sleep apnea improves glucose metabolism and reduces hedonic drive for food. *J Sleep Res* 28, e12794.
- Stemmer, K., Muller, T.D., DiMarchi, R.D., Pfluger, P.T., Tschop, M.H., 2019. CNS-targeting pharmacological interventions for the metabolic syndrome. *J Clin Invest* 130, 4058-4071.
- Steppuhn, H., Laussmann, D., Baumert, J., Kroll, L., Lampert, T., Plass, D., Scheidt-Nave, C., Heidemann, C., 2019. Individual and area-level determinants associated with C-reactive protein as a marker of cardiometabolic risk among adults: Results from the German National Health Interview and Examination Survey 2008-2011. *PLoS One* 14, e0211774.
- Storz, C., Rothenbacher, T., Rospleszcz, S., Linseisen, J., Messmann, H., De Cecco, C.N., Machann, J., Lorbeer, R., Kiefer, L.S., Wintermeyer, E., Rado, S.D., Nikolaou, K., Elser, S., Rathmann, W., Reiser, M.F., Peters, A., Schlett, C.L., Bamberg, F., 2019. Characteristics and associated risk factors of diverticular disease assessed by magnetic resonance imaging in subjects from a Western general population. *Eur Radiol* 29, 1094-1103.
- Stoyanova, D., Stratmann, B., Schwandt, A., Heise, N., Muhldorfer, S., Ziegelasch, H.J., Zimmermann, A., Tschoepe, D., Holl, R.W., Initiative, D.P.V., 2019. Heart failure among people with Type 2 diabetes mellitus: real-world data of 289 954 people from a diabetes database. *Diabet Med*.
- Straube, R., Voit-Bak, K., Gor, A., Steinmeier, T., Chrousos, G.P., Boehm, B.O., Birkenfeld, A.L., Barbir, M., Balanzew, W., Bornstein, S.R., 2019a. Correction: Lipid Profiles in Lyme Borreliosis: A Potential Role for Apheresis? *Horm Metab Res* 51, 554.
- Straube, R., Voit-Bak, K., Gor, A., Steinmeier, T., Chrousos, G.P., Boehm, B.O., Birkenfeld, A.L., Barbir, M., Balanzew, W., Bornstein, S.R., 2019b. Lipid Profiles in Lyme Borreliosis: A Potential Role for Apheresis? *Horm Metab Res* 51, 326-329.
- Sung, Y.J., de Las Fuentes, L., Winkler, T.W., Chasman, D.I., Bentley, A.R., Kraja, A.T., Ntalla, I., Warren, H.R., Guo, X., Schwander, K., Manning, A.K., Brown, M.R., Aschard, H., Feitosa, M.F., Franceschini, N., Lu, Y., Cheng, C.Y., Sim, X., Vojinovic, D., Marten, J., Musani, S.K., Kilpelainen, T.O.,....., Hayward, C., van Duijn, C.M., Tai, E.S., Wong, T.Y., Loos, R.J.F., Reiner, A.P., Rotimi, C.N., Bierut, L.J., Zhu, X., Cupples, L.A., Province, M.A., Rotter, J.I., Franks, P.W., Rice, K., Elliott, P., Caulfield, M.J., Gauderman, W.J., Munroe, P.B., Rao, D.C., Morrison, A.C., 2019. A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. *Hum Mol Genet*.
- Teumer, A., Li, Y., Ghasemi, S., Prins, B.P., Wuttke, M., Hermle, T., Giri, A., Sieber, K.B., Qiu, C., Kirsten, H., Tin, A., Chu, A.Y., Bansal, N., Feitosa, M.F., Wang, L., Chai, J.F., Cocca, M., Fuchsberger, C., Gorski, M., Hoppmann, A., Horn, K., Li, M., Marten, J., Noce, D.,, Edwards, T.L., Ho, K., Morris, A.P., Parsa, A., Pendergrass, S.A., Psaty, B.M., Rotter, J.I., Stefansson, K., Wilson, J.G., Susztak, K., Snieder, H., Heid, I.M., Scholz, M., Butterworth, A.S., Hung, A.M., Pattaro, C., Kottgen, A., 2019. Genome-wide association meta-analyses and fine-mapping elucidate pathways influencing albuminuria. *Nat Commun* 10, 4130.
- Then, C., Then, H., Lechner, A., Huth, C., Meisinger, C., Heier, M., Peters, A., Koenig, W., Rathmann, W., Herder, C., Roden, M., Scherberich, J., Seissler, J., 2019. Serum uromodulin is inversely associated with the metabolic syndrome in the KORA F4 study. *Endocr Connect* 8, 1363-1371.
- Thielen, J.W., Gancheva, S., Hong, D., Rohani Rankouhi, S., Chen, B., Apostolopoulou, M., Anadol-Schmitz, E., Roden, M., Norris, D.G., Tendolkar, I., 2019. Higher GABA concentration in the medial prefrontal cortex of Type 2 diabetes patients is associated with episodic memory dysfunction. *Hum Brain Mapp* 40, 4287-4295.



Thompson, J.W., Adams, K.J., Adamski, J., Asad, Y., Borts, D., Bowden, J.A., Byram, G., Dang, V., Dunn, W.B., Fernandez, F., Fiehn, O., Gaul, D.A., Huhmer, A.F., Kalli, A., Koal, T., Koeniger, S., Mandal, R., Meier, F., Naser, F.J., O'Neil, D., Pal, A., Patti, G.J., Pham-Tuan, H., Prehn, C., Raynaud, F.I., Shen, T., Southam, A.D., St John-Williams, L., Sulek, K., Vasilopoulou, C.G., Viant, M., Winder, C.L., Wishart, D., Zhang, L., Zheng, J., Moseley, M.A., 2019. International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. *Anal Chem*.

Timpel, P., Harst, L., Reifegerste, D., Weihsrauch-Blüher, S., Schwarz, P.E.H., 2019. What should governments be doing to prevent diabetes throughout the life course? *Diabetologia* 62, 1842-1853.

Tin, A., Marten, J., Halperin Kuhns, V.L., Li, Y., Wuttke, M., Kirsten, H., Sieber, K.B., Qiu, C., Gorski, M., Yu, Z., Giri, A., Sveinbjornsson, G., Li, M., Chu, A.Y., Hoppmann, A., O'Connor, L.J., Prins, B., Nutile, T., Noce, D., Akiyama, M., Cocca, M., Ghasemi, S., van der Most, P.J., , Pendergrass, S.A., Ho, K., Parsa, A., Pramstaller, P.P., Psaty, B.M., Boger, C.A., Snieder, H., Butterworth, A.S., Okada, Y., Edwards, T.L., Stefansson, K., Susztak, K., Scholz, M., Heid, I.M., Hung, A.M., Teumer, A., Pattaro, C., Woodward, O.M., Vitart, V., Kottgen, A., 2019. Target genes, variants, tissues and transcriptional pathways influencing human serum urate levels. *Nat Genet*.

Toledo, P.L., Torkko, J.M., Muller, A., Wegbrod, C., Sonmez, A., Solimena, M., Ermacora, M.R., 2019. ICA512 RESP18 homology domain is a protein-condensing factor and insulin fibrillation inhibitor. *J Biol Chem* 294, 8564-8576.

Tonnies, T., Hoyer, A., Brinks, R., 2019a. Trends in incidence of diabetes in Jordan between 1994 and 2017. *Diabet Med* 36, 1183-1184.

Tonnies, T., Stahl-Pehe, A., Baechle, C., Castillo, K., Yossa, R., Holl, R.W., Rosenbauer, J., 2019b. Diabetic nephropathy and quality of life among youths with long-duration type 1 diabetes: A population-based cross-sectional study. *Pediatr Diabetes* 20, 613-621.

Trautenberg, L.C., Prince, E., Maas, C., Beier, N., Honold, F., Grzybek, M., Brankatschk, M., 2019. Selective Phosphorylation of Akt/Protein-Kinase B Isoforms in Response to Dietary Cues. *Front Cell Dev Biol* 7, 206.

Tritschler, S., Buttner, M., Fischer, D.S., Lange, M., Bergen, V., Lickert, H., Theis, F.J., 2019. Concepts and limitations for learning developmental trajectories from single cell genomics. *Development* 146.

Tsepilov, Y.A., Sharapov, S.Z., Zaytseva, O.O., Krumsiek, J., Prehn, C., Adamski, J., Kastenmuller, G., Wang-Sattler, R., Strauch, K., Gieger, C., Aulchenko, Y.S., 2019. Correction to: A network-based conditional genetic association analysis of the human metabolome. *Gigascience* 8.

Turcot, V., Lu, Y., Highland, H.M., Schurmann, C., Justice, A.E., Fine, R.S., Bradfield, J.P., Esko, T., Giri, A., Graff, M., Guo, X., Hendricks, A.E., Karaderi, T., Lempradl, A., , Zhou, W., Zondervan, K.T., Consortium, C.H.D.E., Consortium, E.-C., Exome, B.P.C., Global Lipids Genetic, C., Go, T.D.G.C., Consortium, E.I., Study, I., ReproGen, C., Consortium, T.D.-G., Investigators, M., Understanding Society Scientific, G., Rotter, J.I., Pospisilik, J.A., Rivadeneira, F., Borecki, I.B., Deloukas, P., Frayling, T.M., Lettre, G., North, K.E., Lindgren, C.M., Hirschhorn, J.N., Loos, R.J.F., 2019. Publisher Correction: Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. *Nat Genet* 51, 1191-1192.

Turpin-Nolan, S.M., Hammerschmidt, P., Chen, W., Jais, A., Timper, K., Awazawa, M., Brodesser, S., Bruning, J.C., 2019. CerS1-Derived C18:0 Ceramide in Skeletal Muscle Promotes Obesity-Induced Insulin Resistance. *Cell Rep* 26, 1-10 e17.

Ulrich, L.R., Petersen, J.J., Mergenthal, K., Berghold, A., Pregartner, G., Holle, R., Siebenhofer, A., 2019. Cost-effectiveness analysis of case management for optimized antithrombotic treatment in German general practices compared to usual care - results from the PICANT trial. *Health Econ Rev* 9, 4.

Urner, S., Planas-Paz, L., Hilger, L.S., Henning, C., Branopolski, A., Kelly-Goss, M., Stanczuk, L., Pitter, B., Montanez, E., Peirce, S.M., Makinen, T., Lammert, E., 2019. Identification of ILK as a critical regulator of VEGFR3 signalling and lymphatic vascular growth. *EMBO J* 38.

Uusitupa, M., Khan, T.A., Vigiouliou, E., Kahleova, H., Rivellese, A.A., Hermansen, K., Pfeiffer, A., Thanopoulou, A., Salas-Salvado, J., Schwab, U., Sievenpiper, J.L., 2019. Prevention of Type 2 Diabetes by Lifestyle Changes: A Systematic Review and Meta-Analysis. *Nutrients* 11.



- Van de Velde, F., Bekaert, M., Geerts, A., Hoorens, A., Batens, A.H., Shadid, S., Ouwens, M., Van Nieuwenhove, Y., Lapauw, B., 2019. Insulin resistance associates with hepatic lobular inflammation in subjects with obesity. *Endocr Connect* 8, 1294-1301.
- van den Boom, L., Karges, B., Auzanneau, M., Rami-Merhar, B., Lilienthal, E., von Sengbusch, S., Datz, N., Schroder, C., Kapellen, T., Laimer, M., Schmid, S.M., Muller, H., Wolf, J., Holl, R.W., 2019. Temporal Trends and Contemporary Use of Insulin Pump Therapy and Glucose Monitoring Among Children, Adolescents, and Adults With Type 1 Diabetes Between 1995 and 2017. *Diabetes Care* 42, 2050-2056.
- van der Schaft, N., Schoufour, J.D., Nano, J., Kiefte-de Jong, J.C., Muka, T., Sijbrands, E.J.G., Ikram, M.A., Franco, O.H., Voortman, T., 2019. Dietary antioxidant capacity and risk of type 2 diabetes mellitus, prediabetes and insulin resistance: the Rotterdam Study. *Eur J Epidemiol* 34, 853-861.
- van Mark, G., Lanzinger, S., Barion, R., Degenhardt, M., Badis, S., Noll, H., Danne, T., Bramlage, P., Seufert, J., Holl, R.W., 2019a. Patient and disease characteristics of adult patients with type 1 diabetes in Germany: an analysis of the DPV and DIVE databases. *Ther Adv Endocrinol Metab* 10, 2042018819830867.
- van Mark, G., Lanzinger, S., Sziegoleit, S., Putz, F.J., Durmaz, M., Borscheller, M., Danne, T., Seufert, J., Holl, R.W., Bramlage, P., 2019b. Characteristics of Patients with Type-1 or Type-2 Diabetes Receiving Insulin Glargine U300: An Analysis of 7268 Patients Based on the DPV and DIVE Registries. *Adv Ther* 36, 1628-1641.
- van Setten, J., Verweij, N., Mbarek, H., Niemeijer, M.N., Trompet, S., Arking, D.E., Brody, J.A., Gandin, I., Grarup, N., Hall, L.M., Hemerich, D., Lyytikäinen, L.P., Mei, H., Muller-Nurasyid, M., Prins, B.P., Robino, A., Smith, A.V., Warren, H.R., Asselbergs, F.W., Boomsma, D.I., Caulfield, M.J., Eijgelsheim, M., Ford, I., Hansen, T., Harris, T.B., Heckbert, S.R., Hottenga, J.J., Iorio, A., Kors, J.A., Linneberg, A., MacFarlane, P.W., Meitinger, T., Nelson, C.P., Raitakari, O.T., Silva Aldana, C.T., Sinagra, G., Sinner, M., Soliman, E.Z., Stoll, M., Uitterlinden, A., van Duijn, C.M., Waldenberger, M., Alonso, A., Gasparini, P., Gudnason, V., Jamshidi, Y., Kaab, S., Kanfers, J.K., Lehtimäki, T., Munroe, P.B., Peters, A., Samani, N.J., Sotoodehnia, N., Ulivi, S., Wilson, J.G., de Geus, E.J.C., Jukema, J.W., Stricker, B., van der Harst, P., de Bakker, P.I.W., Isaacs, A., 2019. Genome-wide association meta-analysis of 30,000 samples identifies seven novel loci for quantitative ECG traits. *Eur J Hum Genet* 27, 952-962.
- Veit, R., Horstman, L.I., Hege, M.A., Heni, M., Rogers, P.J., Brunstrom, J.M., Fritsche, A., Preissl, H., Kullmann, S., 2019. Health, pleasure, and fullness: changing mindset affects brain responses and portion size selection in adults with overweight and obesity. *Int J Obes (Lond)*.
- Vetrivel, S., Tiso, N., Kugler, A., Irmeler, M., Horsch, M., Beckers, J., Hladik, D., Giesert, F., Gailus-Durner, V., Fuchs, H., Sabrautski, S., Hrabe de Angelis, M., Graw, J., 2019. Mutation in the mouse histone gene *Hist2h3c1* leads to degeneration of the lens vesicle and severe microphthalmia. *Exp Eye Res* 188, 107632.
- Vlot, A.H.C., Aniceto, N., Menden, M.P., Ulrich-Merzenich, G., Bender, A., 2019. Applying synergy metrics to combination screening data: agreements, disagreements and pitfalls. *Drug Discov Today*.
- Volta, F., Scerbo, M.J., Seelig, A., Wagner, R., O'Brien, N., Gerst, F., Fritsche, A., Haring, H.U., Zeigerer, A., Ullrich, S., Gerdes, J.M., 2019. Glucose homeostasis is regulated by pancreatic beta-cell cilia via endosomal EphA-processing. *Nat Commun* 10, 5686.
- von Schnurbein, J., Manzoor, J., Brandt, S., Denzer, F., Kohlsdorf, K., Fischer-Posovszky, P., Weissenberger, M., Frank-Podlech, S., Mahmood, S., Wabitsch, M., 2019. Leptin Is Not Essential for Obesity-Associated Hypertension. *Obes Facts* 12, 460-475.
- Wang, L., De Solis, A.J., Goffer, Y., Birkenbach, K.E., Engle, S.E., Tanis, R., Levenson, J.M., Li, X., Rausch, R., Purohit, M., Lee, J.Y., Tan, J., De Rosa, M.C., Doege, C.A., Aaron, H.L., Martins, G.J., Bruning, J.C., Egli, D., Costa, R., Barbari, N., Leibel, R.L., Stratigopoulos, G., 2019a. Ciliary gene *RPGRIP1L* is required for hypothalamic arcuate neuron development. *JCI Insight* 4.
- Wang, X., Malinowski, A.R., Beckenbauer, J., Siehler, J., Blochinger, A., Meitinger, T., Haring, H.U., Staiger, H., Burtscher, I., Lickert, H., 2019b. Generation of a human induced pluripotent stem cell line (HMGUi002-A) from a healthy male individual. *Stem Cell Res* 39, 101531.



- Wang, X., Sterr, M., Ansarullah, Burtscher, I., Bottcher, A., Beckenbauer, J., Siehler, J., Meitinger, T., Haring, H.U., Staiger, H., Cernilogar, F.M., Schotta, G., Irmeler, M., Beckers, J., Wright, C.V.E., Bakhti, M., Lickert, H., 2019c. Point mutations in the PDX1 transactivation domain impair human beta-cell development and function. *Mol Metab* 24, 80-97.
- Wardelmann, K., Blumel, S., Rath, M., Alfine, E., Chudoba, C., Schell, M., Cai, W., Hauffe, R., Warnke, K., Flore, T., Ritter, K., Weiss, J., Kahn, C.R., Kleinridders, A., 2019. Insulin action in the brain regulates mitochondrial stress responses and reduces diet-induced weight gain. *Mol Metab* 21, 68-81.
- Warncke, K., Kummer, S., Raile, K., Grulich-Henn, J., Woelfle, J., Steichen, E., Prinz, N., Holl, R.W., 2019. Frequency and Characteristics of MODY 1 (HNF4A Mutation) and MODY 5 (HNF1B Mutation): Analysis From the DPV Database. *J Clin Endocrinol Metab* 104, 845-855.
- Wawro, N., Amann, U., Butt, J., Meisinger, C., Akmatov, M.K., Pessler, F., Peters, A., Rathmann, W., Kaab, S., Waterboer, T., Linseisen, J., 2019. Helicobacter pylori Seropositivity: Prevalence, Associations, and the Impact on Incident Metabolic Diseases/Risk Factors in the Population-Based KORA Study. *Front Public Health* 7, 96.
- Weigert, C., Hoene, M., Plomgaard, P., 2019. Hepatokines-a novel group of exercise factors. *Pflugers Arch* 471, 383-396.
- Weihrauch-Blüher, S., Schwarz, P., Klusmann, J.H., 2019. Childhood obesity: increased risk for cardiometabolic disease and cancer in adulthood. *Metabolism* 92, 147-152.
- Wettmarshausen, J., Perocchi, F., 2019. Assessing Calcium-Stimulated Mitochondrial Bioenergetics Using the Seahorse XF96 Analyzer. *Methods Mol Biol* 1925, 197-222.
- Wiechers, C., Kirchhof, S., Balles, L., Avelina, V., Weber, R., Maas, C., Pauluschke-Frohlich, J., Hallschmid, M., Preissl, H., Fritsche, A., Poets, C.F., Franz, A.R., 2019. Neonatal body composition: cross-sectional study in healthy term singletons in Germany. *BMC Pediatr* 19, 488.
- Wildberg, C., Masuch, A., Budde, K., Kastenmüller, G., Artati, A., Rathmann, W., Adamski, J., Kocher, T., Volzke, H., Nauck, M., Friedrich, N., Pietzner, M., 2019. Plasma Metabolomics to Identify and Stratify Patients With Impaired Glucose Tolerance. *J Clin Endocrinol Metab* 104, 6357-6370.
- Willmann, C., Heni, M., Linder, K., Wagner, R., Stefan, N., Machann, J., Schulze, M.B., Joost, H.G., Haring, H.U., Fritsche, A., 2019. Potential effects of reduced red meat compared with increased fiber intake on glucose metabolism and liver fat content: a randomized and controlled dietary intervention study. *Am J Clin Nutr* 109, 288-296.
- Wilms, B., Chamorro, R., Hallschmid, M., Trost, D., Forck, N., Schultes, B., Molle, M., Sayk, F., Lehnert, H., Schmid, S.M., 2019a. Timing Modulates the Effect of Sleep Loss on Glucose Homeostasis. *J Clin Endocrinol Metab* 104, 2801-2808.
- Wilms, B., Ernst, B., Schmid, S.M., Thurnheer, M., Weisser, B., Schultes, B., 2019b. Spiroergometric assessment of cardiorespiratory fitness in subjects with severe obesity: A challenge of reference. *Nutr Metab Cardiovasc Dis*.
- Wilms, B., Leineweber, E.M., Molle, M., Chamorro, R., Pommerenke, C., Salinas-Riester, G., Sina, C., Lehnert, H., Oster, H., Schmid, S.M., 2019c. Sleep Loss Disrupts Morning-to-Evening Differences in Human White Adipose Tissue Transcriptome. *J Clin Endocrinol Metab* 104, 1687-1696.
- Wittenbecher, C., Kuxhaus, O., Boeing, H., Stefan, N., Schulze, M.B., 2019a. Associations of short stature and components of height with incidence of type 2 diabetes: mediating effects of cardiometabolic risk factors. *Diabetologia*.
- Wittenbecher, C., Ouni, M., Kuxhaus, O., Jahnert, M., Gottmann, P., Teichmann, A., Meidtner, K., Kriebel, J., Grallert, H., Pischon, T., Boeing, H., Schulze, M.B., Schurmann, A., 2019b. Insulin-Like Growth Factor Binding Protein 2 (IGFBP-2) and the Risk of Developing Type 2 Diabetes. *Diabetes* 68, 188-197.
- Wolf, E., Kemter, E., Klymiuk, N., Reichart, B., 2019a. Genetically modified pigs as donors of cells, tissues, and organs for xenotransplantation. *Anim Front* 9, 13-20.



- Wolf, K., Bongaerts, B.W.C., Schneider, A., Huth, C., Meisinger, C., Peters, A., Schneider, A., Wittsiepe, J., Schramm, K.W., Greiser, K.H., Hartwig, S., Kluttig, A., Rathmann, W., 2019b. Persistent organic pollutants and the incidence of type 2 diabetes in the CARLA and KORA cohort studies. *Environ Int* 129, 221-228.
- Wuttke, M., Li, Y., Li, M., Sieber, K.B., Feitosa, M.F., Gorski, M., Tin, A., Wang, L., Chu, A.Y., Hoppmann, A., Kirsten, H., Giri, A., Chai, J.F., Sveinbjornsson, G., Tayo, B.O., Nutile, T., Fuchsberger, C., Marten, J., Cocca, M., Ghasemi, S., Xu, Y., Horn, K., Noce, D., van der Most, P.J., Ho, K., Morris, A.P., Devuyst, O., Akilesh, S., Pendergrass, S.A., Sim, X., Boger, C.A., Okada, Y., Edwards, T.L., Snieder, H., Stefansson, K., Hung, A.M., Heid, I.M., Scholz, M., Teumer, A., Kottgen, A., Pattaro, C., 2019. A catalog of genetic loci associated with kidney function from analyses of a million individuals. *Nat Genet* 51, 957-972.
- Yaghoob Nezhad, F., Verbrugge, S.A.J., Schonfelder, M., Becker, L., Hrabe de Angelis, M., Wackerhage, H., 2019. Genes Whose Gain or Loss-of-Function Increases Endurance Performance in Mice: A Systematic Literature Review. *Front Physiol* 10, 262.
- Yang, Y., Sadri, H., Prehn, C., Adamski, J., Rehage, J., Danicke, S., Saremi, B., Sauerwein, H., 2019. Acylcarnitine profiles in serum and muscle of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. *J Dairy Sci* 102, 754-767.
- Yu, B., Zanetti, K.A., Temprosa, M., Albanes, D., Appel, N., Barrera, C.B., Ben-Shlomo, Y., Boerwinkle, E., Casas, J.P., Clish, C., Dale, C., Dehghan, A., Derkach, A., Eliassen, A.H., Elliott, P., Fahy, E., Gieger, C., Gunter, M.J., Harada, S., Harris, T., Herr, D.R., Herrington, D., Hirschhorn, J.N., Hoover, E., Hsing, A.W., Johansson, M., Kelly, R.S., Khoo, C.M., Kivimaki, M., Kristal, B.S., Langenberg, C., Lasky-Su, J., Lawlor, D.A., Lotta, L.A., Mangino, M., Le Marchand, L., Mathe, E., Matthews, C.E., Menni, C., Mucci, L.A., Murphy, R., Oresic, M., Orwoll, E., Ose, J., Pereira, A.C., Playdon, M.C., Poston, L., Price, J., Qi, Q., Rexrode, K., Risch, A., Sampson, J., Seow, W.J., Sesso, H.D., Shah, S.H., Shu, X.O., Smith, G.C.S., Sovio, U., Stevens, V.L., Stolzenberg-Solomon, R., Takebayashi, T., Tillin, T., Travis, R., Tzoulaki, I., Ulrich, C.M., Vasan, R.S., Verma, M., Wang, Y., Wareham, N.J., Wong, A., Younes, N., Zhao, H., Zheng, W., Moore, S.C., 2019. The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. *Am J Epidemiol* 188, 991-1012.
- Zaharia, O.P., Kuss, O., Strassburger, K., Burkart, V., Szendroedi, J., Roden, M., 2019a. Diabetes clusters and risk of diabetes-associated diseases - Authors' reply. *Lancet Diabetes Endocrinol* 7, 828-829.
- Zaharia, O.P., Strassburger, K., Strom, A., Bonhof, G.J., Karusheva, Y., Antoniou, S., Bodis, K., Markgraf, D.F., Burkart, V., Mussig, K., Hwang, J.H., Asplund, O., Groop, L., Ahlqvist, E., Seissler, J., Nawroth, P., Kopf, S., Schmid, S.M., Stumvoll, M., Pfeiffer, A.F.H., Kabisch, S., Tselmin, S., Haring, H.U., Ziegler, D., Kuss, O., Szendroedi, J., Roden, M., German Diabetes Study, G., 2019b. Risk of diabetes-associated diseases in subgroups of patients with recent-onset diabetes: a 5-year follow-up study. *Lancet Diabetes Endocrinol* 7, 684-694.
- Zemanova, L., Navratilova, H., Andrys, R., Sperkova, K., Andrejs, J., Kozakova, K., Meier, M., Moller, G., Novotna, E., Safr, M., Adamski, J., Wsol, V., 2019. Initial characterization of human DHRS1 (SDR19C1), a member of the short-chain dehydrogenase/reductase superfamily. *J Steroid Biochem Mol Biol* 185, 80-89.
- Zemva, J., Pfaff, D., Groener, J.B., Fleming, T., Herzig, S., Teleman, A., Nawroth, P.P., Tyedmers, J., 2019. Effects of the Reactive Metabolite Methylglyoxal on Cellular Signalling, Insulin Action and Metabolism - What We Know in Mammals and What We Can Learn From Yeast. *Exp Clin Endocrinol Diabetes* 127, 203-214.
- Zeng, J., Wang, Z., Huang, X., Eckstein, S.S., Lin, X., Piao, H., Weigert, C., Yin, P., Lehmann, R., Xu, G., 2019. Comprehensive Profiling by Non-targeted Stable Isotope Tracing Capillary Electrophoresis-Mass Spectrometry: A New Tool Complementing Metabolomic Analyses of Polar Metabolites. *Chemistry* 25, 5427-5432.
- Ziegler, D., Strom, A., Bonhof, G.J., Kannenberg, J.M., Heier, M., Rathmann, W., Peters, A., Meisinger, C., Roden, M., Thorand, B., Herder, C., 2019. Deficits in systemic biomarkers of neuroinflammation and growth factors promoting nerve regeneration in patients with type 2 diabetes and polyneuropathy. *BMJ Open Diabetes Res Care* 7, e000752.
- Zimmermann-Schlegel, V., Wild, B., Nawroth, P., Kopf, S., Herzog, W., Hartmann, M., 2019. Impact of Depression and Psychosocial Treatment on Heart Rate Variability in Patients with Type 2 Diabetes Mellitus: An Exploratory Analysis Based on the HEIDIS Trial. *Exp Clin Endocrinol Diabetes* 127, 367-376.



Zweck, E., Roden, M., 2019. GLP-1 receptor agonists and cardiovascular disease: drug-specific or class effects? *Lancet Diabetes Endocrinol* 7, 89-90.

Zweck, E., Szendrodi, J., Kelm, M., Roden, M., 2019. [The Diabetic Heart and Heart Failure - Update on Mechanisms and Therapy]. *Dtsch Med Wochenschr* 144, 175-179.