

## **Publication List Antje Körner**

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Publons (WoS): <https://publons.com/researcher/2440229/antje-korner/publications/>  
h-index: 56

### **Original Publications\***

#### 2022

1. Kempf E, Landgraf K, Stein R, Hanschkow M, Hilbert A, Abou Jamra R, Boczki P, Herberth G, Kühnapfel A, Tseng YH, Stäubert C, Schöneberg T, Kühnen P, Rayner NW, Zeggini E, Kiess W, Blüher M, Körner A. Aberrant expression of agouti signaling protein (ASIP) as a cause of monogenic severe childhood obesity. **Nat Metab** 4(12):1697-1712 (2022) IF: 19.89; cites
2. Landgraf K, Kühnapfel A, Schlanstein M, Biemann R, Isermann B, Kempf E, Kirsten H, Scholz M, Körner A. Transcriptome Analyses of Adipose Tissue Samples Identify EGFL6 as a Candidate Gene Involved in Obesity-Related Adipose Tissue Dysfunction in Children. **Int J Mol Sci** 23(8):4349 (2022) IF: 6.21 ; cites 0
3. Bohn C, Vogel M, Poulain T, Hiemisch A, Kiess W, Körner A. Having siblings promotes a more healthy weight status-Whereas only children are at greater risk for higher BMI in later childhood. **PLoS One** 19;17(7):e0271676 (2022) IF: 3.75; cites 0
4. Kempf E, Landgraf K, Vogel T, Spielau U, Stein R, Raschpichler M, Kratzsch J, Kiess W, Stanik J, Körner A. Associations of GHR, IGF-1 and IGFBP-3 expression in adipose tissue cells with obesity-related alterations in corresponding circulating levels and adipose tissue function in children. **Adipocyte** 11(1):630-642 (2022) IF: 3.55; cites 0
5. Hoang AC, Sasi-Szabó L, Pál T, Szabó T, Diedrich V, Herwig A, Landgraf K, Körner A, Röszer T. Mitochondrial RNA stimulates beige adipocyte development in young mice. **Nat Metab** 4(12):1684-1696 (2022) IF: 19.89; cites 1
6. Yang CH, Fagnocchi L, Apostle S, Wegert V, Casaní-Galdón S, Landgraf K, Panzeri I, Dror E, Heyne S, Wörpel T, Chandler DP, Lu D, Yang T, Gibbons E, Guerreiro R, Bras J, Thomasen M, Grunnet LG, Vaag AA, Gillberg L, Grundberg E, Conesa A, Körner A; PERMUTE; Pospisilik JA. Independent phenotypic plasticity axes define distinct obesity sub-types. **Nat Metab** 4(9):1150-1165 (2022) IF: 19.89; cites 2
7. Krishnan S, Manoharan J, Wang H, Gupta D, Fatima S, Yu Y, Mathew A, Li Z, Kohli S, Schwab C, Körner A, Mertens PR, Nawroth P, Shahzad K, Naumann M, Isermann B, Biemann R. CD248 induces a maladaptive unfolded protein response in diabetic kidney disease. **Kidney Int** 26:S0085-2538(22)00904-8 (2022) IF: 18.99; cites
8. Küpers LK, Fernández-Barrés S, Mancano G, Johnson L, Ott R, Vioque J, Colombo M, Landgraf K, Tobi EW, Körner A, Gaillard R, de Vries JHM, Jaddoe VWV, Vrijheid M, Sharp GC, Felix JF. Maternal Dietary Glycemic Index and Glycemic Load in Pregnancy and Offspring Cord Blood DNA Methylation. **Diabetes Care** 1;45(8):1822-1832 (2022) IF: 17.16 ; cites 1

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\* Impact factors according to Journal Citation Report;  
citations according to Web of Science core collection as of Jan 16<sup>th</sup>, 2023

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9. Christen L, Broghammer H, Rapöhn I, Möhlis K, Strehlau C, Ribas-Latre A, Gebhardt C, Roth L, Krause K, Landgraf K, Körner A, Rohde-Zimmermann K, Hoffmann A, Klötting N, Ghosh A, Sun W, Dong H, Wolfrum C, Rassaf T, Hendgen-Cotta UB, Stumvoll M, Blüher M, Heiker JT, Weiner J. Myoglobin-mediated lipid shuttling increases adrenergic activation of brown and white adipocyte metabolism and is as a marker of thermogenic adipocytes in humans. **Clin Transl Med** 12(12):e1108 (2022) IF: 8.55; cites 0
10. Breinker JL, Kaspar A, Sergejev E, Körner A, Kiess W, Hilbert A. Predictors of Effectiveness and Adherence in a Multimodal Obesity Treatment Program for Children and Adolescents in Routine Care. **Nutrients** 28;15(1):136 (2022) IF: 6.71; cites
11. Winkler TW, Rasheed H, Teumer A, Gorski M, Rowan BX, Stanzick KJ, Thomas LF, Tin A, Hoppmann A, Chu AY, Tayo B, Thio CHL, Cusi D, Chai JF, Sieber KB, Horn K, Li M, Scholz M, Cocca M, Wuttke M, van der Most PJ, Yang Q, Ghasemi S, Nutile T, Li Y, Pontali G, Günther F, Dehghan A, Correa A, Parsa A, Feresin A, de Vries APJ, Zonderman AB, Smith AV, Oldehinkel AJ, De Grandi A, Rosenkranz AR, Franke A, Teren A, Metspalu A, Hicks AA, Morris AP, Tönjes A, Morgan A, Podgornaia AI, Peters A, Körner A, [ ], Heid IM. Differential and shared genetic effects on kidney function between diabetic and non-diabetic individuals. **Commun Biol** 5(1):580 (2022) IF: 6.55 ; cites 0
12. Pfäffle R, Knüpfer M, Göbert M, Vogel M, Gausche R, Beger C, Keller E, Körner A, Thome U, Kiess W. Growth Patterns of Children With Short Stature in Adulthood According to Auxological Status and Maturity at Birth. **J Clin Endocrinol Metab** 25;107(12):3320-3327 (2022) IF: 6.13; cites 1
13. Hanschkow M, Boulet N, Kempf E, Bouloumié A, Kiess W, Stein R, Körner A, Landgraf K. Expression of the adipocyte progenitor markers MSCA1 and CD36 is associated with adipose tissue function in children. **J Clin Endocrinol Metab** 107:e836-e851 (2022) IF: 6.13; cites 1
14. Vogel M, Geserick M, Gausche R, Beger C, Poulain T, Meigen C, Körner A, Keller E, Kiess W, Pfäffle R. Age- and weight group-specific weight gain patterns in children and adolescents during the 15 years before and during the COVID-19 pandemic. **Int J Obes (Lond)** 46:144-152 (2022) IF: 5.55; cites 19
15. Thrum S, Sommer M, Raulien N, Gericke M, Massier L, Kovacs P, Krasselt M, Landgraf K, Körner A, Dietrich A, Blüher M, Rossol M, Wagner U. Macrophages in obesity are characterised by increased IL-1 $\beta$  response to calcium-sensing receptor signals. **Int J Obes (Lond)** Aug 5 (2022) Epub ahead of print IF: 5.55 ; cites 1
16. Buchhardt J, Kiess W, Körner A, Biemann R, Hirsch C, Child Study Team L. The Influence of Steroid Hormones on Tooth Wear in Children and in Adolescents. **J Clin Med** 11(13):3603 (2022) IF: 4.96 ; cites 0
17. Brandstetter S, Poulain T, Vogel M, Meigen C, Melter M, Königer A, Apfelbacher C, Kiess W, Kabesch M, Körner A, Kuno Kids Study Group. Families' Worries during the First and Second COVID-19 Wave in Germany: Longitudinal Study in Two Population-Based Cohorts. **Int J Environ Res Public Health**. 19(5):2820 (2022) IF: 4.61 ; cites 2
18. Thieme F, Vogel M, Gausche R, Beger C, Vasilakis IA, Kratzsch J, Körner A, Kiess W, Pfäffle RW. The Influence of Body Mass Index on the Growth Hormone Peak Response regarding Growth Hormone Stimulation Tests in Children. **Horm Res Paediatr** 95(5):452-460 (2022) IF: 4.28 ; cites 2

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19. Krönke AA, Jurkutat A, Schlingmann M, Poulain T, Nüchter M, Hilbert A, Kiviranta H, Körner A, Vogel M, Söder O, Bornehag CG, Kiess W. Persistent organic pollutants in pregnant women potentially affect child development and thyroid hormone status. **Pediatr Res** 91(3):690-698 (2022) IF: 3.95; cites 4
  20. Ziegelasch N, Vogel M, Körner A, Koch E, Jurkutat A, Ceglarek U, Dittrich K, Kiess W. Cystatin C relates to metabolism in healthy, pubertal adolescents. **Pediatr Nephrol** 37:423-432 (2022) IF: 3.65; cites 0
  21. Vogelesang S, Bradfield JP; Early Growth Genetics Consortium; Grant SFA, Felix JF, Jaddoe VVW. Genetics of early-life head circumference and genetic correlations with neurological, psychiatric and cognitive outcomes. **BMC Med Genomics** 4;15(1):124 (2022) IF: 3.62 ; cites 1
  22. Hovestadt I, Kiess W, Lewien C, Willenberg A, Poulain T, Meigen C, Körner A, Vogel M. HbA1c percentiles and the association between BMI, age, gender, puberty, and HbA1c levels in healthy German children and adolescents. **Pediatr Diabetes** 23(2):194-202 (2022) IF: 3.41; cites 3
  23. Hjorth T, Schadow A, Revheim I, Spielau U, Thomassen LM, Meyer K, Piotrowski K, Rosendahl-Riise H, Rieder A, Varela P, Lysne V, Ballance S, Koerner A, Landberg R, Buyken A, Dierkes J. Sixteen-week multicentre randomised controlled trial to study the effect of the consumption of an oat beta-glucan-enriched bread versus a whole-grain wheat bread on glycaemic control among persons with pre-diabetes: a study protocol of the CarbHealth study. **BMJ Open** 23;12(8):e062066 (2022) IF: 3.0; cites 0
  24. Kiess A, Green J, Willenberg A, Ceglarek U, Dähnert I, Jurkutat A, Körner A, Hiemisch A, Kiess W, Vogel M. Age-Dependent Reference Values for hs-Troponin T and NT-proBNP and Determining Factors in a Cohort of Healthy Children (The LIFE Child Study). **Pediatr Cardiol** 43(5):1071-1083 (2022) IF: 1.84; cites 4
  25. Kiess W, Stoltze A, Kirstein AS, Gesing J, Stein R, Körner A, Pfäffle R. Disorders of sex development - biologic, genetic, cultural, societal, and psychologic diversity of the human nature. **J Pediatr Endocrinol Metab** Dec 9;36(1):1-3 (2022) IF: 1.52; cites 0
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26. Koutny F, Stein R, Kiess W, Weghuber D, Körner A. Elevated transaminases potentiate the risk for emerging dysglycemia in children with overweight and obesity. **Pediatr Obes** 16:e12822 (2021) IF: 3.91; cites 6
  27. Kempf E, Vogel M, Vogel T, Kratzsch J, Landgraf K, Kühnapfel A, Gausche R, Gräfe D, Sergejev E, Pfäffle R, Kiess W, Stanik J, Körner A. Dynamic alterations in linear growth and endocrine parameters in children with obesity and height reference values. **EClinicalMedicine** 37:100977 (2021) IF: 17.03 ; cites 4
  28. Chen J, Spracklen CN, [118authors], Vogel M, [20authors], Blüher M, [33authors], Kiess W, [24authors], Körner A, Kovacs P, [56authors], Stumvoll M, Sun L, Tabara Y, Tai ES, Timpson NJ, Tönjes A, [24authors], Zeggini E, [14authors], Wheeler E, Morris AP, Barroso I. The trans-ancestral genomic architecture of glycemic traits. **Nat Genet** 53:840-60 (2021) IF: 41.38; cites 76
  29. Lagou V, [69authors], Kovacs P, [8authors], Kiess W, [35authors], Blüher M, [17authors], Körner A, [16authors], Stumvoll M, [52authors], Prokopenko I. Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. **Nat Commun** 12:24 (2021) IF: 17.69; cites 40

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31. Surup H, Vogel M, Koerner A, Hiemisch A, Oelkers L, Willenberg A, Kiess W, Kratzsch J. Pediatric Reference Intervals for Thyrotropin, Free Triiodothyronine, and Free Thyroxine and the Relevance of Body Mass Index and Puberty in Measurement Interpretation. **Thyroid** 31:1192-202 (2021) IF: 6.51; cites 5
32. Kreuzler P, Vogel M, Willenberg A, Baber R, Dietz Y, Körner A, Ceglarek U, Kiess W. Folate and Cobalamin Serum Levels in Healthy Children and Adolescents and Their Association with Age, Sex, BMI and Socioeconomic Status. **Nutrients** 13 (2021) IF: 6.71; cites 7
33. Kirstein AS, Kehr S, Nebe M, Hanschkow M, Barth LAG, Lorenz J, Penke M, Breitfeld J, Le Duc D, Landgraf K, Körner A, Kovacs P, Stadler PF, Kiess W, Garten A. PTEN regulates adipose progenitor cell growth, differentiation, and replicative aging. **J Biol Chem** 297:100968 (2021) IF: 5.49; cites 6
34. Nidens N, Krönke A, Jurkutat A, Schlingmann M, Poulain T, Nüchter M, Kiviranta H, Körner A, Vogel M, Lindh C, Bornehag CG, Kiess W. Associations of prenatal exposure to phthalates and one phthalate substitute with anthropometric measures in early life: Results from the German LIFE Child cohort study. **Best Pract Res Clin Endocrinol Metab** 35:101532 (2021) IF: 5.67; cites 1
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36. Spielau U, Vogel M, Körner A, Kiess W, Poulain T. Composition and Culture of Eating (CoCu) pregnancy: a new short questionnaire to evaluate diet composition and culture of eating during pregnancy. **Public Health Nutr** 24:6227-35 (2021) IF: 4.54; cites 1
37. Poulain T, Meigen C, Sobek C, Ober P, Igel U, Körner A, Kiess W, Vogel M. Loss of childcare and classroom teaching during the Covid-19-related lockdown in spring 2020: A longitudinal study on consequences on leisure behavior and schoolwork at home. **PLoS One** 16:e0247949 (2021) IF: 3.75; cites 26
38. Möller S, Poulain T, Körner A, Meigen C, Jurkutat A, Vogel M, Wessela S, Hiemisch A, Grafe N, Kiess W. Motor skills in relation to body-mass index, physical activity, TV-watching, and socioeconomic status in German four-to-17-year-old children. **PLoS One** 16:e0251738 (2021) IF: 3.75; cites 2
39. Poulain T, Spielau U, Vogel M, Dathan-Stumpf A, Körner A, Kiess W. Changes in diet from pregnancy to one year after birth: a longitudinal study. **BMC Pregnancy Childbirth** 21:600 (2021) IF: 3.11; cites 0
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42. Landgraf K, Klötting N, Gericke M, Maixner N, Guiu-Jurado E, Scholz M, Witte AV, Beyer F, Schwartze JT, Lacher M, Villringer A, Kovacs P, Rudich A, Blüher M, Kiess W, Körner A. The Obesity-Susceptibility Gene TMEM18 Promotes Adipogenesis through Activation of PPARG. **Cell Rep** 33:108295 (2020) IF: 10; cites 12
43. Voigtmann F, Wolf P, Landgraf K, Stein R, Kratzsch J, Schmitz S, Jamra RA, Blüher M, Meiler J, Beck-Sickinger AG, Kiess W, Körner A. Identification of a novel leptin receptor (LEPR) variant and proof of functional relevance directing treatment decisions in patients with morbid obesity. **Metabolism**:154438 (2020) IF: 13.93; cites 8
44. Kalkhof S, Krieg L, Büttner P, Wabitsch M, Küntzel C, Friebe D, Landgraf K, Hanschkw M, Schubert K, Kiess W, Krohn K, Blüher M, von Bergen M, Körner A. In depth quantitative proteomic and transcriptomic characterization of human adipocyte differentiation using the SGBS cell line. **Proteomics**:e1900405 (2020) IF: 5.39; cites 5
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46. Shamsi F, Xue R, Huang TL, Lundh M, Liu Y, Leiria LO, Lynes MD, Kempf E, Wang CH, Sugimoto S, Nigro P, Landgraf K, Schulz T, Li Y, Emanuelli B, Kothakota S, Williams LT, Jessen N, Pedersen SB, Böttcher Y, Blüher M, Körner A, Goodyear LJ, Mohammadi M, Kahn CR, Tseng YH. FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. **Nat Commun** 11:1421 (2020) IF: 17.69; cites 45
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48. Vogelesang S, [5authors], Scholz M, [54authors], Kiess W, authors], Landgraf K, authors], Körner A, [8authors], Felix JF. Novel loci for childhood body mass index and shared heritability with adult cardiometabolic traits. **PLoS Genet** 16:e1008718 (2020) IF: 6.02; cites 34
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50. Hirschel J, Vogel M, Baber R, Garten A, Beuchel C, Dietz Y, Dittrich J, Körner A, Kiess W, Ceglarek U. Relation of Whole Blood Amino Acid and Acylcarnitine Metabolome to Age, Sex, BMI, Puberty, and Metabolic Markers in Children and Adolescents. **Metabolites** 10 (2020) IF: 5.58; cites 15
51. Kässner F, Kirstein A, Händel N, Schmid GL, Landgraf K, Berthold A, Tannert A, Schaefer M, Wabitsch M, Kiess W, Körner A, Garten A. A new human adipocyte model with PTEN haploinsufficiency. **Adipocyte** 9:290-301 (2020) IF: 3.55; cites 6

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53. Geserick M, Vogel M, Eckelt F, Schlingmann M, Hiemisch A, Baber R, Thiery J, Körner A, Kiess W, Kratzsch J. Children and adolescents with obesity have reduced serum bone turnover markers and 25-hydroxyvitamin D but increased parathyroid hormone concentrations - Results derived from new pediatric reference ranges. **Bone** 132:115124 (2020) IF: 4.63; cites 23
54. Rauch A, Körner A, Kiess W, Hirsch C, Schierz O. Relationship between Age-Dependent Body Constitution and Temporomandibular Joint Sounds in Adolescents. **J Clin Med** 9 (2020) IF: 4.96; cites 0
55. Koutny F, Weghuber D, Bollow E, Greber-Platzer S, Hartmann K, Körner A, Reinehr T, Roehl M, Simic-Schleicher G, Wabitsch M, Widhalm K, Wiegand S, Holl RW. Prevalence of prediabetes and type 2 diabetes in children with obesity and increased transaminases in European German-speaking countries. Analysis of the APV initiative. **Pediatr Obes** 15:e12601 (2020) IF: 3.91; cites 18
56. Rauch A, Schierz O, Körner A, Kiess W, Hirsch C. Prevalence of anamnestic symptoms and clinical signs of temporomandibular disorders in adolescents-Results of the epidemiologic LIFE Child Study. **J Oral Rehabil** 47:425-31 (2020) IF: 3.56; cites 11
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60. Oelkers L, Vogel M, Kalenda A, Surup HC, Körner A, Kratzsch J, Kiess W. Socioeconomic Status Is Related to Pubertal Development in a German Cohort. **Horm Res Paediatr** 93:548-57 (2020) IF: 4.28; cites 3
61. Sonntag J, Vogel M, Geserick M, Eckelt F, Körner A, Raue F, Kiess W, Kratzsch J. Age-Related Association of Calcitonin with Parameters of Anthropometry, Bone and Calcium Metabolism during Childhood. **Horm Res Paediatr**:1-10 (2020) IF: 4.28; cites 2
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63. Körner A, Kiess W, Vogel M. Persistence of obesity from early childhood onward. **N Engl J Med** 380:194-5 (2019) IF: 176.1; cites 4

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64. Stanik J, Kratzsch J, Landgraf K, Vogel M, Thiery J, Kiess W, Körner A. The Bone Markers Sclerostin, Osteoprotegerin, and Bone-Specific Alkaline Phosphatase Are Related to Insulin Resistance in Children and Adolescents, Independent of Their Association with Growth and Obesity. **Horm Res Paediatr** 91:1-8 (2019) IF: 4.28; cites 14
65. Warrington NM, Beaumont RN, [120authors], Kovacs P, [8authors], Tönjes A, Stumvoll M, [4authors], Kiess W, Körner A, [4authors], Zeggini E, [63authors], Freathy RM. Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. **Nat Genet** 51:804-14 (2019) IF: 41.38; cites 213
66. Wuttke M, Li Y, authors], Kiess W, Kleber ME, Koenig W, Kooner JS, Körner A, Kovacs P, authors], Scholz M, Teumer A, Kottgen A, Pattaro C. A catalog of genetic loci associated with kidney function from analyses of a million individuals. **Nat Genet** 51:957-72 (2019) IF: 41.38; cites 256
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71. Poulain T, Spielau U, Vogel M, Körner A, Kiess W. CoCu: A new short questionnaire to evaluate diet composition and culture of eating in children and adolescents. **Clin Nutr** 38:2858-65 (2019) IF: 7.64; cites 9
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