

Joachim Spranger

List of Publications by Year in descending order

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86
papers

4,500
citations

201674

27
h-index

110387

64
g-index

91
all docs

91
docs citations

91
times ranked

8800
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammatory Cytokines and the Risk to Develop Type 2 Diabetes. <i>Diabetes</i> , 2003, 52, 812-817.	0.6	1,282
2	Impact of Type 2 Diabetes Susceptibility Variants on Quantitative Glycemic Traits Reveals Mechanistic Heterogeneity. <i>Diabetes</i> , 2014, 63, 2158-2171.	0.6	297
3	MC4R agonism promotes durable weight loss in patients with leptin receptor deficiency. <i>Nature Medicine</i> , 2018, 24, 551-555.	30.7	219
4	Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. <i>Cell Metabolism</i> , 2011, 14, 184-195.	16.2	193
5	Free Fatty Acids Link Metabolism and Regulation of the Insulin-Sensitizing Fibroblast Growth Factor-21. <i>Diabetes</i> , 2009, 58, 1532-1538.	0.6	139
6	Obesity and type 2 diabetes in sub-Saharan Africans – Is the burden in today’s Africa similar to African migrants in Europe? The RODAM study. <i>BMC Medicine</i> , 2016, 14, 166.	5.5	132
7	Metabolic actions of natriuretic peptides and therapeutic potential in the metabolic syndrome. , 2014, 144, 12-27.		127
8	Fibroblast Growth Factor 21 Predicts the Metabolic Syndrome and Type 2 Diabetes in Caucasians. <i>Diabetes Care</i> , 2013, 36, 145-149.	8.6	114
9	Untargeted Metabolic Profiling Identifies Altered Serum Metabolites of Type 2 Diabetes Mellitus in a Prospective, Nested Case Control Study. <i>Clinical Chemistry</i> , 2015, 61, 487-497.	3.2	113
10	Interindividual Variation in DNA Methylation at a Putative POMC Metastable Epiallele Is Associated with Obesity. <i>Cell Metabolism</i> , 2016, 24, 502-509.	16.2	110
11	Caloric restriction disrupts the microbiota and colonization resistance. <i>Nature</i> , 2021, 595, 272-277.	27.8	109
12	Rationale and cross-sectional study design of the Research on Obesity and type 2 Diabetes among African Migrants: the RODAM study. <i>BMJ Open</i> , 2015, 4, e004877.	1.9	94
13	Impulse control in the dorsolateral prefrontal cortex counteracts post-diet weight regain in obesity. <i>NeuroImage</i> , 2015, 109, 318-327.	4.2	92
14	Caloric Restriction in Older Adults – Differential Effects of Weight Loss and Reduced Weight on Brain Structure and Function. <i>Cerebral Cortex</i> , 2017, 27, bhw008.	2.9	80
15	Studying the pathophysiology of coronavirus disease 2019: a protocol for the Berlin prospective COVID-19 patient cohort (Pa-COVID-19). <i>Infection</i> , 2020, 48, 619-626.	4.7	79
16	New concepts in pathogenesis and treatment of diabetic retinopathy. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2001, 109, S438-S450.	1.2	70
17	Inflammation-Induced Acute Phase Response in Skeletal Muscle and Critical Illness Myopathy. <i>PLoS ONE</i> , 2014, 9, e92048.	2.5	70
18	Epigenome-wide association study in whole blood on type 2 diabetes among sub-Saharan African individuals: findings from the RODAM study. <i>International Journal of Epidemiology</i> , 2019, 48, 58-70.	1.9	62

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19	An epigenome-wide association study in whole blood of measures of adiposity among Ghanaians: the RODAM study. <i>Clinical Epigenetics</i> , 2017, 9, 103.	4.1	55
20	Inhibition of citrate cotransporter Slc13a5/mINDY by RNAi improves hepatic insulin sensitivity and prevents diet-induced non-alcoholic fatty liver disease in mice. <i>Molecular Metabolism</i> , 2016, 5, 1072-1082.	6.5	47
21	High Saturated Fat Diet Increases Circulating Angiotensin-Converting Enzyme, Which Is Enhanced by the rs4343 Polymorphism Defining Persons at Risk of Nutrient-Dependent Increases of Blood Pressure. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	47
22	Genetic Nicotinamide N-Methyltransferase (<i>Nnmt</i>) Deficiency in Male Mice Improves Insulin Sensitivity in Diet-Induced Obesity but Does Not Affect Glucose Tolerance. <i>Diabetes</i> , 2019, 68, 527-542.	0.6	45
23	EFhd2/Swiprosin-1 is a common genetic determinant for sensation-seeking/low anxiety and alcohol addiction. <i>Molecular Psychiatry</i> , 2018, 23, 1303-1319.	7.9	40
24	Measuring Energy Expenditure in extracorporeal lung support Patients (MEEP) – Protocol, feasibility and pilot trial. <i>Clinical Nutrition</i> , 2018, 37, 301-307.	5.0	39
25	Skeletal Muscle 11beta-HSD1 Controls Glucocorticoid-Induced Proteolysis and Expression of E3 Ubiquitin Ligases Atrogin-1 and MuRF-1. <i>PLoS ONE</i> , 2011, 6, e16674.	2.5	39
26	Effects of caloric restriction on the gut microbiome are linked with immune senescence. <i>Microbiome</i> , 2022, 10, 57.	11.1	38
27	Rosiglitazone decreases 11 β -hydroxysteroid dehydrogenase type 1 in subcutaneous adipose tissue. <i>Clinical Endocrinology</i> , 2007, 67, 419-425.	2.4	34
28	Chemerin and prediction of Diabetes mellitus type 2. <i>Clinical Endocrinology</i> , 2015, 82, 838-843.	2.4	33
29	Multi-layered epigenetic regulation of IRS2 expression in the liver of obese individuals with type 2 diabetes. <i>Diabetologia</i> , 2020, 63, 2182-2193.	6.3	32
30	High-fat Diet and Physical Exercise Differentially Modulate Adult Neurogenesis in the Mouse Hypothalamus. <i>Neuroscience</i> , 2019, 400, 146-156.	2.3	29
31	Effects of a combined dietary, exercise and behavioral intervention and sympathetic system on body weight maintenance after intended weight loss: Results of a randomized controlled trial. <i>Metabolism: Clinical and Experimental</i> , 2018, 83, 60-67.	3.4	27
32	Protein modification with ISG15 blocks coxsackievirus pathology by antiviral and metabolic reprogramming. <i>Science Advances</i> , 2020, 6, eaay1109.	10.3	27
33	Knockdown of Indy/CeNac2 extends <i>Caenorhabditis elegans</i> life span by inducing AMPK/aak-2. <i>Aging</i> , 2015, 7, 553-567.	3.1	27
34	Migration and Cardiovascular Disease Risk Among Ghanaian Populations in Europe: Cardiovascular Quality and Outcomes, 2017, 10, .	2.2	26
35	Microvascular and macrovascular complications in type 2 diabetes Ghanaian residents in Ghana and Europe: The RODAM study. <i>Journal of Diabetes and Its Complications</i> , 2019, 33, 572-578.	2.3	25
36	Interactions between neural decision-making circuits predict long-term dietary treatment success in obesity. <i>NeuroImage</i> , 2019, 184, 520-534.	4.2	25

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37	ANGPTL8 (Betatrophin) is Expressed in Visceral Adipose Tissue and Relates to Human Hepatic Steatosis in Two Independent Clinical Collectives. <i>Hormone and Metabolic Research</i> , 2017, 49, 343-349.	1.5	24
38	Metabolic impact of weight loss induced reduction of adipose ACE-2 – Potential implication in COVID-19 infections?. <i>Metabolism: Clinical and Experimental</i> , 2020, 113, 154401.	3.4	24
39	Comparison of relative and attributable risk of myocardial infarction and stroke according to C-reactive protein and low-density lipoprotein cholesterol levels. <i>European Journal of Epidemiology</i> , 2007, 22, 429-438.	5.7	23
40	An Integrated Understanding of the Molecular Mechanisms of How Adipose Tissue Metabolism Affects Long-term Body Weight Maintenance. <i>Diabetes</i> , 2019, 68, 57-65.	0.6	23
41	Spatiotemporal Changes of Cerebral Monocarboxylate Transporter 8 Expression. <i>Thyroid</i> , 2020, 30, 1366-1383.	4.5	22
42	ANP system activity predicts variability of fat mass reduction and insulin sensitivity during weight loss. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 935-943.	3.4	19
43	Dietary patterns and type 2 diabetes among Ghanaian migrants in Europe and their compatriots in Ghana: the RODAM study. <i>Nutrition and Diabetes</i> , 2018, 8, 25.	3.2	19
44	Circulating Insulin-like Growth Factor Binding Protein-3 Predicts One-year Outcome after Ischemic Stroke. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2015, 123, 461-465.	1.2	18
45	Renal function is independently associated with circulating betatrophin. <i>PLoS ONE</i> , 2017, 12, e0173197.	2.5	18
46	Weight Loss Partially Restores Glucose-Driven Betatrophin Response in Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 4014-4020.	3.6	15
47	Fatty acids differentially modify the expression of urokinase type plasminogen activator receptor in monocytes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 196-199.	2.1	14
48	Palliative treatment of uncontrollable hypercalcemia due to parathyrotoxicosis: denosumab as rescue therapy. <i>Endocrinology, Diabetes and Metabolism Case Reports</i> , 2015, 2015, 150082.	0.5	13
49	The prevalence of metabolic syndrome among Ghanaian migrants and their homeland counterparts: the Research on Obesity and type 2 Diabetes among African Migrants (RODAM) study. <i>European Journal of Public Health</i> , 2019, 29, 906-913.	0.3	13
50	Mutation spectrum and polygenic score in German patients with familial hypercholesterolemia. <i>Clinical Genetics</i> , 2020, 98, 457-467.	2.0	13
51	Lack of Association between the Tagging SNP A+930G of SOCS3 and Type 2 Diabetes Mellitus: Meta-Analysis of Four Independent Study Populations. <i>PLoS ONE</i> , 2008, 3, e3852.	2.5	12
52	Dietary Fat Intake Modulates Effects of a Frequent ACE Gene Variant on Glucose Tolerance with association to Type 2 Diabetes. <i>Scientific Reports</i> , 2017, 7, 9234.	3.3	12
53	Distinct Housing Conditions Reveal a Major Impact of Adaptive Immunity on the Course of Obesity-Induced Type 2 Diabetes. <i>Frontiers in Immunology</i> , 2018, 9, 1069.	4.8	12
54	Interaction of circulating GLP-1 and the response of the dorsolateral prefrontal cortex to food-cues predicts body weight development. <i>Molecular Metabolism</i> , 2019, 29, 136-144.	6.5	11

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55	T cell phenotypes associated with insulin resistance: results from the Berlin Aging Study II. <i>Immunity and Ageing</i> , 2020, 17, 40.	4.2	11
56	Association between Subcutaneous Adipose Tissue Inflammation, Insulin Resistance, and Calorie Restriction in Obese Females. <i>Journal of Immunology</i> , 2020, 205, 45-55.	0.8	11
57	Association of thyroid function with insulin resistance: data from two population-based studies. <i>European Thyroid Journal</i> , 2022, 11, .	2.4	11
58	High prevalence of anaemia among African migrants in Germany persists after exclusion of iron deficiency and erythrocyte polymorphisms. <i>Tropical Medicine and International Health</i> , 2015, 20, 1180-1189.	2.3	10
59	High-fat diet-induced obesity and insulin resistance are characterized by differential beta oscillatory signaling of the limbic cortico-basal ganglia loop. <i>Scientific Reports</i> , 2017, 7, 15555.	3.3	9
60	Early-life factors are associated with waist circumference and type 2 diabetes among Ghanaian adults: The RODAM Study. <i>Scientific Reports</i> , 2019, 9, 10848.	3.3	9
61	Hypoxia and exercise interactions on skeletal muscle insulin sensitivity in obese subjects with metabolic syndrome: results of a randomized controlled trial. <i>International Journal of Obesity</i> , 2020, 44, 1119-1128.	3.4	9
62	Association between C reactive protein and microvascular and macrovascular dysfunction in sub-Saharan Africans with and without diabetes: the RODAM study. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001235.	2.8	9
63	Overexpression of Gjb4 impairs cell proliferation and insulin secretion in primary islet cells. <i>Molecular Metabolism</i> , 2020, 41, 101042.	6.5	9
64	Effects of Weight Loss on Adipose and Muscular Neuropilin 1 mRNA Expression in Obesity: Potential Implication in SARS-CoV-2 Infections?. <i>Obesity Facts</i> , 2022, 15, 90-98.	3.4	9
65	Dyslipidaemia among Ghanaian migrants in three European countries and their compatriots in rural and urban Ghana: The RODAM study. <i>Atherosclerosis</i> , 2019, 284, 83-91.	0.8	8
66	Chronic Activation of Hepatic Nrf2 Has No Major Effect on Fatty Acid and Glucose Metabolism in Adult Mice. <i>PLoS ONE</i> , 2016, 11, e0166110.	2.5	8
67	Sex-Specific Aspects of Skeletal Muscle Metabolism in the Clinical Context of Intensive Care Unit-Acquired Weakness. <i>Journal of Clinical Medicine</i> , 2022, 11, 846.	2.4	8
68	A distinct metabolic signature predicts development of fasting plasma glucose. <i>Journal of Clinical Bioinformatics</i> , 2012, 2, 3.	1.2	6
69	Impact of protocol-based physiotherapy on insulin sensitivity and peripheral glucose metabolism in critically ill patients. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 1045-1053.	7.3	6
70	Computational approaches to predicting treatment response to obesity using neuroimaging. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 773-805.	5.7	6
71	DNA methylation as the link between migration and the major noncommunicable diseases: the RODAM study. <i>Epigenomics</i> , 2021, 13, 653-666.	2.1	5
72	Fetuin-B, a potential link of liver-adipose tissue cross talk during diet-induced weight loss-weight maintenance. <i>Nutrition and Diabetes</i> , 2021, 11, 31.	3.2	5

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73	Assessment of Myocardial Microstructure in a Murine Model of Obesity-Related Cardiac Dysfunction by Diffusion Tensor Magnetic Resonance Imaging at 7T. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 839714.	2.4	5
74	Specific skeletal muscle sphingolipid compounds in energy expenditure regulation and weight gain in Native Americans of Southwestern heritage. <i>International Journal of Obesity</i> , 2017, 41, 1585-1593.	3.4	4
75	Nutritional counseling frequency and baseline food pattern predict implementation of a high-protein and high-polyunsaturated fatty acid dietary pattern: 1-year results of the randomized NutriAct trial. <i>Clinical Nutrition</i> , 2021, 40, 5457-5466.	5.0	3
76	Dietary-challenged mice with Alzheimer-like pathology show increased energy expenditure and reduced adipocyte hypertrophy and steatosis. <i>Aging</i> , 2021, 13, 10891-10919.	3.1	2
77	Long-term effects of a food pattern on cardiovascular risk factors and age-related changes of muscular and cognitive function. <i>Medicine (United States)</i> , 2020, 99, e22381.	1.0	2
78	Spirolactone is associated with reduced mitotane levels in adrenocortical carcinoma patients. <i>Endocrine-Related Cancer</i> , 2022, 29, 121-128.	3.1	2
79	Long-term impact of the metabolic status on weight loss-induced health benefits. <i>Nutrition and Metabolism</i> , 2022, 19, 25.	3.0	2
80	Inverse Association between Iron Deficiency and Glycated Hemoglobin Levels in Ghanaian Adults—the RODAM Study. <i>Journal of Nutrition</i> , 2020, 150, 1899-1908.	2.9	1
81	Association between meal-specific daily protein intake and lean mass in older adults: results of the cross-sectional BASE-II study. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1141-1147.	4.7	1
82	Weight loss did not modify macronutrient specific response of hormones and satiety in overweight and obese people without metabolic disease — results from a clinical trial. <i>Clinical Nutrition</i> , 2022, 41, 948-957.	5.0	1
83	An Advanced Murine Model for Nonalcoholic Steatohepatitis in Association with Type 2 Diabetes. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	0
84	Carbohydrate-dense snacks are a key feature of the nutrition transition among Ghanaian adults — findings from the RODAM study. <i>Food and Nutrition Research</i> , 2021, 65, .	2.6	0
85	Metabolic benefits of caloric restriction are linked with defined immune signatures shaped by the gut microbiome. <i>Diabetologie Und Stoffwechsel</i> , 2022, , .	0.0	0
86	A metabolically-healthy lean phenotype is sustained in GPR146-deficient mice during diet-induced obesity. <i>Diabetologie Und Stoffwechsel</i> , 2022, , .	0.0	0