

Birgit Knebel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

1,895
citations

22
h-index

41
g-index

96
ext. papers

2,436
ext. citations

4.7
avg, IF

4.48
L-index

#	Paper	IF	Citations
87	Adipokines: a treasure trove for the discovery of biomarkers for metabolic disorders. <i>Proteomics - Clinical Applications</i> , 2012 , 6, 91-101	3.1	203
86	Identification and validation of novel adipokines released from primary human adipocytes. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, M1111.010504	7.6	160
85	MAP kinases Erk1/2 phosphorylate sterol regulatory element-binding protein (SREBP)-1a at serine 117 in vitro. <i>Journal of Biological Chemistry</i> , 2000 , 275, 33302-7	5.4	124
84	Secretome profiling of primary human skeletal muscle cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1011-7	4	107
83	Liver-specific expression of transcriptionally active SREBP-1c is associated with fatty liver and increased visceral fat mass. <i>PLoS ONE</i> , 2012 , 7, e31812	3.7	97
82	Mechanisms of Insulin Resistance in Primary and Secondary Nonalcoholic Fatty Liver. <i>Diabetes</i> , 2017 , 66, 2241-2253	0.9	89
81	Empagliflozin Effectively Lowers Liver Fat Content in Well-Controlled Type 2 Diabetes: A Randomized, Double-Blind, Phase 4, Placebo-Controlled Trial. <i>Diabetes Care</i> , 2020 , 43, 298-305	14.6	86
80	Insulin-activated Erk-mitogen-activated protein kinases phosphorylate sterol regulatory element-binding Protein-2 at serine residues 432 and 455 in vivo. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22404-11	5.4	79
79	Identification of major ERK-related phosphorylation sites in Gab1. <i>Biochemistry</i> , 2004 , 43, 12133-40	3.2	43
78	Tissue-specific differences in the development of insulin resistance in a mouse model for type 1 diabetes. <i>Diabetes</i> , 2014 , 63, 3856-67	0.9	41
77	Specific Metabolic Profiles and Their Relationship to Insulin Resistance in Recent-Onset Type 1 and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 2130-40	5.6	36
76	Preventing phosphorylation of sterol regulatory element-binding protein 1a by MAP-kinases protects mice from fatty liver and visceral obesity. <i>PLoS ONE</i> , 2012 , 7, e32609	3.7	36
75	Lipidomics-Reshaping the Analysis and Perception of Type 2 Diabetes. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	35
74	Phosphorylation of sterol regulatory element-binding protein (SREBP)-1a links growth hormone action to lipid metabolism in hepatocytes. <i>Atherosclerosis</i> , 2010 , 213, 156-65	3.1	31
73	Exosomal proteins constitute an essential part of the human adipose tissue secretome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 140172	4	31
72	Phosphorylation of sterol regulatory element-binding protein (SREBP)-1c by p38 kinases, ERK and JNK influences lipid metabolism and the secretome of human liver cell line HepG2. <i>Archives of Physiology and Biochemistry</i> , 2014 , 120, 216-27	2.2	30
71	Two novel mutations in the insulin binding subunit of the insulin receptor gene without insulin binding impairment in a patient with Rabson-Mendenhall syndrome. <i>Molecular Genetics and Metabolism</i> , 2008 , 94, 356-62	3.7	28

70	Effect of sterol regulatory element binding protein-1a on the mitochondrial protein pattern in human liver cells detected by 2D-DIGE. <i>Biochemistry</i> , 2005 , 44, 5117-28	3.2	27
69	Cardiac Hyaluronan Synthesis Is Critically Involved in the Cardiac Macrophage Response and Promotes Healing After Ischemia Reperfusion Injury. <i>Circulation Research</i> , 2019 , 124, 1433-1447	15.7	25
68	Peroxisomes compensate hepatic lipid overflow in mice with fatty liver. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015 , 1851, 965-76	5	25
67	A mutation in the c-fos gene associated with congenital generalized lipodystrophy. <i>Orphanet Journal of Rare Diseases</i> , 2013 , 8, 119	4.2	24
66	Dissociation of Fatty Liver and Insulin Resistance in I148M PNPLA3 Carriers: Differences in Diacylglycerol (DAG) FA18:1 Lipid Species as a Possible Explanation. <i>Nutrients</i> , 2018 , 10,	6.7	24
65	Metabolic flexibility and oxidative capacity independently associate with insulin sensitivity in individuals with newly diagnosed type 2 diabetes. <i>Diabetologia</i> , 2016 , 59, 2203-7	10.3	20
64	AKT and AMP-activated protein kinase regulate TBC1D1 through phosphorylation and its interaction with the cytosolic tail of insulin-regulated aminopeptidase IRAP. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17853-17862	5.4	20
63	Hyaluronan synthase 3 promotes plaque inflammation and atheroprogession. <i>Matrix Biology</i> , 2018 , 66, 67-80	11.4	19
62	Sex steroid-induced changes in circulating monocyte chemoattractant protein-1 levels may contribute to metabolic dysfunction in obese men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, E1187-91	5.6	19
61	Insulin Resistance and Vulnerability to Cardiac Ischemia. <i>Diabetes</i> , 2018 , 67, 2695-2702	0.9	19
60	Synthetic cytokine receptors transmit biological signals using artificial ligands. <i>Nature Communications</i> , 2018 , 9, 2034	17.4	19
59	Aβ Oligomer Elimination Restores Cognition in Transgenic Alzheimer's Mice with Full-blown Pathology. <i>Molecular Neurobiology</i> , 2019 , 56, 2211-2223	6.2	18
58	Profiling of low molecular weight proteins in plasma from locally irradiated individuals. <i>Journal of Radiation Research</i> , 2014 , 55, 674-82	2.4	18
57	Variants in Genes Controlling Oxidative Metabolism Contribute to Lower Hepatic ATP Independent of Liver Fat Content in Type 1 Diabetes. <i>Diabetes</i> , 2016 , 65, 1849-57	0.9	18
56	The adipokine sFRP4 induces insulin resistance and lipogenesis in the liver. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 2671-2684	6.9	17
55	Role of Patatin-Like Phospholipase Domain-Containing 3 Gene for Hepatic Lipid Content and Insulin Resistance in Diabetes. <i>Diabetes Care</i> , 2020 , 43, 2161-2168	14.6	16
54	Association of transketolase polymorphisms with measures of polyneuropathy in patients with recently diagnosed diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2017 , 33, e2811	7.5	16
53	Inactivation of SREBP-1a Phosphorylation Prevents Fatty Liver Disease in Mice: Identification of Related Signaling Pathways by Gene Expression Profiles in Liver and Proteomes of Peroxisomes. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15

52	Novel Insights into the Adipokinome of Obese and Obese/Diabetic Mouse Models. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	15
51	A variant of the glucose transporter gene SLC2A2 modifies the glycaemic response to metformin therapy in recently diagnosed type 2 diabetes. <i>Diabetologia</i> , 2019 , 62, 286-291	10.3	14
50	Identification of a gene variant in the master regulator of lipid metabolism SREBP-1 in a family with a novel form of severe combined hypolipidemia. <i>Atherosclerosis</i> , 2011 , 218, 134-43	3.1	13
49	Protein levels of clusterin and glutathione γ -synthetase in platelets allow for early detection of colorectal cancer. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 323-334	10.3	12
48	Synthetic Cargo Internalization Receptor System for Nanoparticle Tracking of Individual Cell Populations by Fluorine Magnetic Resonance Imaging. <i>ACS Nano</i> , 2018 , 12, 11178-11192	16.7	12
47	FGF21 regulates insulin sensitivity following long-term chronic stress. <i>Molecular Metabolism</i> , 2018 , 16, 126-138	8.8	12
46	Alteration of Liver Peroxisomal and Mitochondrial Functionality in the NZO Mouse Model of Metabolic Syndrome. <i>Proteomics - Clinical Applications</i> , 2018 , 12, 1700028	3.1	11
45	Metabolic Determinants of Impaired Pulmonary Function in Patients with Newly Diagnosed Type 2 Diabetes Mellitus. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2018 , 126, 584-589	2.3	11
44	Fatty Liver Due to Increased Lipogenesis: Alterations in the Hepatic Peroxisomal Proteome. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 248	5.7	11
43	Associations between explorative dietary patterns and serum lipid levels and their interactions with ApoA5 and ApoE haplotype in patients with recently diagnosed type 2 diabetes. <i>Cardiovascular Diabetology</i> , 2016 , 15, 138	8.7	11
42	Physiological Disturbance in Fatty Liver Energy Metabolism Converges on IGFBP2 Abundance and Regulation in Mice and Men. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
41	Two Novel Candidate Genes for Insulin Secretion Identified by Comparative Genomics of Multiple Backcross Mouse Populations. <i>Genetics</i> , 2018 , 210, 1527-1542	4	10
40	CDH13 abundance interferes with adipocyte differentiation and is a novel biomarker for adipose tissue health. <i>International Journal of Obesity</i> , 2018 , 42, 1039-1050	5.5	9
39	Reduced expression of stearyl-CoA desaturase-1, but not free fatty acid receptor 2 or 4 in subcutaneous adipose tissue of patients with newly diagnosed type 2 diabetes mellitus. <i>Nutrition and Diabetes</i> , 2018 , 8, 49	4.7	9
38	Decreased M1 macrophage polarization in dabigatran-treated Ldlr-deficient mice: Implications for atherosclerosis and adipose tissue inflammation. <i>Atherosclerosis</i> , 2019 , 287, 81-88	3.1	8
37	Identification of the Secreted Proteins Originated from Primary Human Hepatocytes and HepG2 Cells. <i>Nutrients</i> , 2019 , 11,	6.7	8
36	Genetic variations in SREBP-1 and LXRL α are not directly associated to PCOS but contribute to the physiological specifics of the syndrome. <i>Molecular Biology Reports</i> , 2012 , 39, 6835-42	2.8	8
35	So close and yet so far: mitochondria and peroxisomes are one but with specific talents. <i>Archives of Physiology and Biochemistry</i> , 2013 , 119, 126-35	2.2	8

34	Lipodystrophies-Disorders of the Fatty Tissue. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
33	Rhein, a novel Histone Deacetylase (HDAC) inhibitor with antifibrotic potency in human myocardial fibrosis. <i>Scientific Reports</i> , 2020 , 10, 4888	4.9	7
32	2D-ToGo workflow: increasing feasibility and reproducibility of 2-dimensional gel electrophoresis. <i>Archives of Physiology and Biochemistry</i> , 2013 , 119, 108-13	2.2	7
31	Correlates of Insulin-Stimulated Glucose Disposal in Recent-Onset Type 1 and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 2295-2304	5.6	6
30	Histone deacetylase 5 regulates interleukin 6 secretion and insulin action in skeletal muscle. <i>Molecular Metabolism</i> , 2020 , 42, 101062	8.8	6
29	Protein Profiling of Serum Extracellular Vesicles Reveals Qualitative and Quantitative Differences After Differential Ultracentrifugation and ExoQuick Isolation. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	5
28	Identification of novel adipokines differential regulated in C57BL/Ks and C57BL/6. <i>Archives of Physiology and Biochemistry</i> , 2014 , 120, 208-15	2.2	5
27	Adipokinome Signatures in Obese Mouse Models Reflect Adipose Tissue Health and Are Associated with Serum Lipid Composition. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	4
26	Genetic variants in central metabolic genes influence some but not all relations of inflammatory markers in a collective with polycystic ovary syndrome. <i>Archives of Physiology and Biochemistry</i> , 2012 , 118, 219-29	2.2	4
25	EB1 protein alteration characterizes sporadic but not ulcerative colitis associated colorectal cancer. <i>Oncotarget</i> , 2017 , 8, 54939-54950	3.3	4
24	Investigating the adipose tissue secretome: a protocol to generate high-quality samples appropriate for comprehensive proteomic profiling. <i>Methods in Molecular Biology</i> , 2015 , 1295, 43-53	1.4	4
23	Divergent phenotypes in siblings with identical novel mutations in the HNF-1 β gene leading to maturity onset diabetes of the young type 3. <i>BMC Medical Genetics</i> , 2016 , 17, 36	2.1	3
22	Preparation of "functional" mitochondria: a challenging business. <i>Methods in Molecular Biology</i> , 2015 , 1264, 1-8	1.4	3
21	Association between copy-number variation on metabolic phenotypes and HDL-C levels in patients with polycystic ovary syndrome. <i>Molecular Biology Reports</i> , 2017 , 44, 51-61	2.8	2
20	Oxygen and differentiation status modulate the effect of X-ray irradiation on physiology and mitochondrial proteome of human neuroblastoma cells. <i>Archives of Physiology and Biochemistry</i> , 2016 , 122, 257-265	2.2	2
19	Synthetic interleukin 22 (IL-22) signaling reveals biological activity of homodimeric IL-10 receptor 2 and functional cross-talk with the IL-6 receptor gp130. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12378-12397	5.4	2
18	Untargeted mass spectrometric approach in metabolic healthy offspring of patients with type 2 diabetes reveals medium-chain acylcarnitine as potential biomarker for lipid induced glucose intolerance (LGIT). <i>Archives of Physiology and Biochemistry</i> , 2016 , 122, 266-280	2.2	2
17	AKT/AMPK-mediated phosphorylation of TBC1D4 disrupts the interaction with insulin-regulated aminopeptidase. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100637	5.4	2

16	Deep serum discoveries: SDF-1 and HSA fragments in myelodysplastic syndromes. <i>American Journal of Hematology</i> , 2015 , 90, E185-7	7.1	1
15	Lower Hepatic Insulin Sensitivity in a Family with a Recently Described Glucokinase Gene Variant. <i>Diabetes</i> , 2018 , 67, 1509-P	0.9	1
14	Dapagliflozin reduces thrombin generation and platelet activation: implications for cardiovascular risk reduction in type 2 diabetes mellitus. <i>Diabetologia</i> , 2021 , 64, 1834-1849	10.3	1
13	Development of the Metabolic Syndrome: Study Design and Baseline Data of the Lufthansa Prevention Study (LUPS), A Prospective Observational Cohort Survey. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2020 , 128, 777-787	2.3	1
12	Preparation of "Functional" Mitochondria: A Challenging Business. <i>Methods in Molecular Biology</i> , 2021 , 2276, 31-39	1.4	1
11	Isolation and Quality Control of Functional Mitochondria. <i>Methods in Molecular Biology</i> , 2021 , 2276, 41-55.4	5.4	1
10	Long-term adjustment of hepatic lipid metabolism after chronic stress and the role of FGF21. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022 , 1868, 166286	6.9	0
9	Alternative exon splicing and differential expression in pancreatic islets reveals candidate genes and pathways implicated in early diabetes development. <i>Mammalian Genome</i> , 2021 , 32, 153-172	3.2	0
8	Investigating the Adipose Tissue Secretome: A Protocol to Generate High-Quality Samples Appropriate for Comprehensive Proteomic Profiling. <i>Methods in Molecular Biology</i> , 2021 , 2261, 421-431	1.4	0
7	Hepatic energy metabolism in a family with a glucokinase gene mutation and dysglycemia.. <i>Diabetes Research and Clinical Practice</i> , 2022 , 185, 109779	7.4	0
6	Nudix hydrolase NUDT19 regulates mitochondrial function and ATP production in murine hepatocytes.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022 , 1867, 159153	5	0
5	Mass spectrometry in life science research. <i>Archives of Physiology and Biochemistry</i> , 2016 , 122, 235	2.2	
4	Erbgut beeinflusst Blutglukosereaktion. <i>Diabetes Aktuell</i> , 2019 , 17, 102-103	0	
3	275-OR: Higher Liver Fat and Whole-Body Insulin Sensitivity in Newly Diagnosed Type 2 Diabetes Patients with a Variant in Transmembrane 6 Superfamily Member 2 Protein. <i>Diabetes</i> , 2019 , 68, 275-OR	0.9	
2	542-P: Association of Cardiac Autonomic Dysfunction with Plasma Lipid Metabolites in Recent-Onset Type 2 Diabetes. <i>Diabetes</i> , 2020 , 69, 542-P	0.9	
1	581-P: Remnant Cholesterol: Association to Components of the Metabolic Syndrome or Triglyceride-Glucose Index in the LUPS Cohort. <i>Diabetes</i> , 2020 , 69, 581-P	0.9	