

Harald Staiger

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.

88

papers

3,950

citations

35

h-index

61

g-index

89

ext. papers

4,484

ext. citations

5.5

avg, IF

4.86

L-index

#	Paper	IF	Citations
88	Alpha2-Heremans-Schmid glycoprotein/fetuin-A is associated with insulin resistance and fat accumulation in the liver in humans. <i>Diabetes Care</i> , 2006 , 29, 853-7	14.6	368
87	Palmitate, but not unsaturated fatty acids, induces the expression of interleukin-6 in human myotubes through proteasome-dependent activation of nuclear factor-kappaB. <i>Journal of Biological Chemistry</i> , 2004 , 279, 23942-52	5.4	216
86	Pancreatic fat is negatively associated with insulin secretion in individuals with impaired fasting glucose and/or impaired glucose tolerance: a nuclear magnetic resonance study. <i>Diabetes/Metabolism Research and Reviews</i> , 2010 , 26, 200-5	7.5	174
85	Fibroblast Growth Factor 21-Metabolic Role in Mice and Men. <i>Endocrine Reviews</i> , 2017 , 38, 468-488	27.2	146
84	Muscle-derived angiopoietin-like protein 4 is induced by fatty acids via peroxisome proliferator-activated receptor (PPAR)-delta and is of metabolic relevance in humans. <i>Diabetes</i> , 2009 , 58, 579-89	0.9	145
83	Polymorphisms within novel risk loci for type 2 diabetes determine beta-cell function. <i>PLoS ONE</i> , 2007 , 2, e832	3.7	127
82	Saturated, but not unsaturated, fatty acids induce apoptosis of human coronary artery endothelial cells via nuclear factor-kappaB activation. <i>Diabetes</i> , 2006 , 55, 3121-6	0.9	118
81	Protein kinase C delta activation and translocation to the nucleus are required for fatty acid-induced apoptosis of insulin-secreting cells. <i>Diabetes</i> , 2003 , 52, 991-7	0.9	117
80	Palmitate-induced interleukin-6 expression in human coronary artery endothelial cells. <i>Diabetes</i> , 2004 , 53, 3209-16	0.9	116
79	Circulating palmitoleate strongly and independently predicts insulin sensitivity in humans. <i>Diabetes Care</i> , 2010 , 33, 405-7	14.6	111
78	Different role of saturated and unsaturated fatty acids in beta-cell apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 853-6	3.4	109
77	Genetic variations in PPARD and PPARGC1A determine mitochondrial function and change in aerobic physical fitness and insulin sensitivity during lifestyle intervention. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 1827-33	5.6	107
76	Insulin promotes glycogen storage and cell proliferation in primary human astrocytes. <i>PLoS ONE</i> , 2011 , 6, e21594	3.7	104
75	Pathomechanisms of type 2 diabetes genes. <i>Endocrine Reviews</i> , 2009 , 30, 557-85	27.2	102
74	Expression of adiponectin receptor mRNA in human skeletal muscle cells is related to in vivo parameters of glucose and lipid metabolism. <i>Diabetes</i> , 2004 , 53, 2195-201	0.9	101
73	Oxygen consumption in undifferentiated versus differentiated adipogenic mesenchymal precursor cells. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 146, 107-16	2.8	94
72	Polymorphisms within the novel type 2 diabetes risk locus MTNR1B determine beta-cell function. <i>PLoS ONE</i> , 2008 , 3, e3962	3.7	93

71	Cytokine response of primary human myotubes in an in vitro exercise model. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C877-86	5.4	88
70	Common genetic variation in the human FNDC5 locus, encoding the novel muscle-derived Browning factor irisin, determines insulin sensitivity. <i>PLoS ONE</i> , 2013 , 8, e61903	3.7	71
69	Gene variants of TCF7L2 influence weight loss and body composition during lifestyle intervention in a population at risk for type 2 diabetes. <i>Diabetes</i> , 2010 , 59, 747-50	0.9	58
68	Fibroblast growth factor 21 is elevated in metabolically unhealthy obesity and affects lipid deposition, adipogenesis, and adipokine secretion of human abdominal subcutaneous adipocytes. <i>Molecular Metabolism</i> , 2015 , 4, 519-27	8.8	53
67	Evaluation of fasting state-/oral glucose tolerance test-derived measures of insulin release for the detection of genetically impaired β cell function. <i>PLoS ONE</i> , 2010 , 5, e14194	3.7	52
66	Effects of resveratrol supplementation on liver fat content in overweight and insulin-resistant subjects: A randomized, double-blind, placebo-controlled clinical trial. <i>Diabetes, Obesity and Metabolism</i> , 2018 , 20, 1793-1797	6.7	48
65	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. <i>Nature Communications</i> , 2018 , 9, 288	17.4	48
64	Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies BCL2 and FAM19A2 as Novel Insulin Sensitivity Loci. <i>Diabetes</i> , 2016 , 65, 3200-11	0.9	47
63	A candidate type 2 diabetes polymorphism near the HHEX locus affects acute glucose-stimulated insulin release in European populations: results from the EUGENE2 study. <i>Diabetes</i> , 2008 , 57, 514-7	0.9	47
62	RARRES2, encoding the novel adipokine chemerin, is a genetic determinant of disproportionate regional body fat distribution: a comparative magnetic resonance imaging study. <i>Metabolism: Clinical and Experimental</i> , 2009 , 58, 519-24	12.7	46
61	Exercise and diabetes: relevance and causes for response variability. <i>Endocrine</i> , 2016 , 51, 390-401	4	44
60	Variant near ADAMTS9 known to associate with type 2 diabetes is related to insulin resistance in offspring of type 2 diabetes patients--EUGENE2 study. <i>PLoS ONE</i> , 2009 , 4, e7236	3.7	43
59	Genome-wide analysis of PDX1 target genes in human pancreatic progenitors. <i>Molecular Metabolism</i> , 2018 , 9, 57-68	8.8	40
58	Variation in the obesity risk gene FTO determines the postprandial cerebral processing of food stimuli in the prefrontal cortex. <i>Molecular Metabolism</i> , 2014 , 3, 109-13	8.8	40
57	Metabolic signatures of cultured human adipocytes from metabolically healthy versus unhealthy obese individuals. <i>PLoS ONE</i> , 2014 , 9, e93148	3.7	40
56	Glycemia determines the effect of type 2 diabetes risk genes on insulin secretion. <i>Diabetes</i> , 2010 , 59, 3247-52	0.9	38
55	TGF- β contributes to impaired exercise response by suppression of mitochondrial key regulators in skeletal muscle. <i>Diabetes</i> , 2016 , 65, 2849-61	0.9	36
54	Novel meta-analysis-derived type 2 diabetes risk loci do not determine prediabetic phenotypes. <i>PLoS ONE</i> , 2008 , 3, e3019	3.7	35

53	A computational biology approach of a genome-wide screen connected miRNAs to obesity and type 2 diabetes. <i>Molecular Metabolism</i> , 2018 , 11, 145-159	8.8	33
52	Glucose-raising genetic variants in MADD and ADCY5 impair conversion of proinsulin to insulin. <i>PLoS ONE</i> , 2011 , 6, e23639	3.7	32
51	The role of PDGF-dependent suppression of apoptosis in differentiating 3T3-L1 preadipocytes. <i>European Journal of Cell Biology</i> , 1998 , 77, 220-7	6.1	31
50	Interaction between the obesity-risk gene FTO and the dopamine D2 receptor gene ANKK1/TaqIA on insulin sensitivity. <i>Diabetologia</i> , 2016 , 59, 2622-2631	10.3	31
49	Novel obesity risk loci do not determine distribution of body fat depots: a whole-body MRI/MRS study. <i>Obesity</i> , 2010 , 18, 1212-7	8	28
48	Point mutations in the PDX1 transactivation domain impair human β cell development and function. <i>Molecular Metabolism</i> , 2019 , 24, 80-97	8.8	27
47	Identification of Four Mouse Diabetes Candidate Genes Altering β Cell Proliferation. <i>PLoS Genetics</i> , 2015 , 11, e1005506	6	27
46	Polymorphism rs3123554 in CNR2 reveals gender-specific effects on body weight and affects loss of body weight and cerebral insulin action. <i>Obesity</i> , 2014 , 22, 925-31	8	27
45	Influence of common polymorphisms in the SLC5A2 gene on metabolic traits in subjects at increased risk of diabetes and on response to empagliflozin treatment in patients with diabetes. <i>Pharmacogenetics and Genomics</i> , 2017 , 27, 135-142	1.9	24
44	What role do fat cells play in pancreatic tissue?. <i>Molecular Metabolism</i> , 2019 , 25, 1-10	8.8	23
43	Common genetic variation in the SERPINF1 locus determines overall adiposity, obesity-related insulin resistance, and circulating leptin levels. <i>PLoS ONE</i> , 2012 , 7, e34035	3.7	23
42	Circulating FGF21 Levels in Human Health and Metabolic Disease. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2020 , 128, 752-770	2.3	22
41	The D299G/T399I Toll-like receptor 4 variant associates with body and liver fat: results from the TULIP and METSIM Studies. <i>PLoS ONE</i> , 2010 , 5, e13980	3.7	21
40	Maternal whole blood cell miRNA-340 is elevated in gestational diabetes and inversely regulated by glucose and insulin. <i>Scientific Reports</i> , 2018 , 8, 1366	4.9	20
39	Common polymorphisms within the NR4A3 locus, encoding the orphan nuclear receptor Nor-1, are associated with enhanced beta-cell function in non-diabetic subjects. <i>BMC Medical Genetics</i> , 2009 , 10, 77	2.1	20
38	Antihyperglycaemic therapies and cancer risk. <i>Diabetes and Vascular Disease Research</i> , 2014 , 11, 371-89	3.3	19
37	Glucose-Raising Polymorphisms in the Human Clock Gene Cryptochrome 2 (CRY2) Affect Hepatic Lipid Content. <i>PLoS ONE</i> , 2016 , 11, e0145563	3.7	18
36	BMI-Independent Effects of Gestational Diabetes on Human Placenta. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 3299-3309	5.6	18

35	Untangling the interplay of genetic and metabolic influences on beta-cell function: Examples of potential therapeutic implications involving TCF7L2 and FFAR1. <i>Molecular Metabolism</i> , 2014 , 3, 261-7	8.8	17
34	Nor-1, a novel incretin-responsive regulator of insulin genes and insulin secretion. <i>Molecular Metabolism</i> , 2013 , 2, 243-55	8.8	17
33	Androgen receptor overexpression in prostate cancer in type 2 diabetes. <i>Molecular Metabolism</i> , 2018 , 8, 158-166	8.8	16
32	Activated macrophages control human adipocyte mitochondrial bioenergetics via secreted factors. <i>Molecular Metabolism</i> , 2017 , 6, 1226-1239	8.8	14
31	Variation in the Phosphoinositide 3-Kinase Gamma Gene Affects Plasma HDL-Cholesterol without Modification of Metabolic or Inflammatory Markers. <i>PLoS ONE</i> , 2015 , 10, e0144494	3.7	14
30	Interscapular fat is strongly associated with insulin resistance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 4736-42	5.6	14
29	Impact of fibroblast growth factor 21 on the secretome of human perivascular preadipocytes and adipocytes: a targeted proteomics approach. <i>Archives of Physiology and Biochemistry</i> , 2016 , 122, 281-288 ^{2,2}		12
28	Granulocyte colony-stimulating factor (G-CSF): A saturated fatty acid-induced myokine with insulin-desensitizing properties in humans. <i>Molecular Metabolism</i> , 2016 , 5, 305-316	8.8	11
27	Chronic d-serine supplementation impairs insulin secretion. <i>Molecular Metabolism</i> , 2018 , 16, 191-202	8.8	11
26	Generation of a human induced pluripotent stem cell (iPSC) line from a patient with family history of diabetes carrying a C18R mutation in the PDX1 gene. <i>Stem Cell Research</i> , 2016 , 17, 292-295	1.6	11
25	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019 , 68, 502-514	0.9	11
24	Peroxisome proliferator-activated receptor gamma (PPARG) modulates free fatty acid receptor 1 (FFAR1) dependent insulin secretion in humans. <i>Molecular Metabolism</i> , 2014 , 3, 676-80	8.8	10
23	Generation of a human induced pluripotent stem cell (iPSC) line from a patient carrying a P33T mutation in the PDX1 gene. <i>Stem Cell Research</i> , 2016 , 17, 273-276	1.6	10
22	DPP4 gene variation affects GLP-1 secretion, insulin secretion, and glucose tolerance in humans with high body adiposity. <i>PLoS ONE</i> , 2017 , 12, e0181880	3.7	9
21	Pharmacogenetics of oral antidiabetic therapy. <i>Pharmacogenomics</i> , 2018 , 19, 577-587	2.6	9
20	Pharmacogenetics: Implications for Modern Type 2 Diabetes Therapy. <i>Review of Diabetic Studies</i> , 2015 , 12, 363-76	3.6	9
19	Preadipocytes of obese humans display gender-specific bioenergetic responses to glucose and insulin. <i>Molecular Metabolism</i> , 2019 , 20, 28-37	8.8	9
18	The myocyte expression of adiponectin receptors and PPARs highly coordinated and reflects lipid metabolism of the human donors. <i>Experimental Diabetes Research</i> , 2011 , 2011, 692536		8

17	Common variation in the sodium/glucose cotransporter 2 gene SLC5A2 does neither affect fasting nor glucose-suppressed plasma glucagon concentrations. <i>PLoS ONE</i> , 2017 , 12, e0177148	3.7	7
16	The genetic influence on body fat distribution. <i>Drug Discovery Today Disease Mechanisms</i> , 2013 , 10, e5-e13		7
15	Glucose tolerance and insulin sensitivity define adipocyte transcriptional programs in human obesity. <i>Molecular Metabolism</i> , 2018 , 18, 42-50	8.8	7
14	Hypomagnesemia and nephrocalcinosis in a patient with two heterozygous mutations in the CLDN16 gene. <i>Journal of Nephrology</i> , 2007 , 20, 107-10	4.8	7
13	No association between variation in the NR4A1 gene locus and metabolic traits in white subjects at increased risk for type 2 diabetes. <i>BMC Medical Genetics</i> , 2010 , 11, 84	2.1	6
12	Excessive fuel availability amplifies the FTO-mediated obesity risk: results from the TUEF and Whitehall II studies. <i>Scientific Reports</i> , 2017 , 7, 15486	4.9	5
11	In vitro responsiveness of human muscle cell peroxisome proliferator-activated receptor α reflects donors' insulin sensitivity in vivo. <i>European Journal of Clinical Investigation</i> , 2011 , 41, 1323-9	4.6	5
10	Integrative network analysis highlights biological processes underlying GLP-1 stimulated insulin secretion: A DIRECT study. <i>PLoS ONE</i> , 2018 , 13, e0189886	3.7	5
9	AMPK Subunits Harbor Largely Nonoverlapping Genetic Determinants for Body Fat Mass, Glucose Metabolism, and Cholesterol Metabolism. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	5
8	A Polygenic Risk Score of Lipolysis-Increasing Alleles Determines Visceral Fat Mass and Proinsulin Conversion. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 1090-1098	5.6	5
7	Common genetic variation in the human CTF1 locus, encoding cardiostrophin-1, determines insulin sensitivity. <i>PLoS ONE</i> , 2014 , 9, e100391	3.7	4
6	Serum-free differentiation of 3T3-L1 preadipocytes is characterized by only transient expression of peroxisome proliferator-activated receptor- γ . <i>Biochemical and Biophysical Research Communications</i> , 2002 , 296, 125-8	3.4	3
5	Elevated circulating follistatin associates with an increased risk of type 2 diabetes. <i>Nature Communications</i> , 2021 , 12, 6486	17.4	2
4	Elevated Circulating Glutamate Is Associated With Subclinical Atherosclerosis Independently of Established Risk Markers: A Cross-Sectional Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, e982-e989	5.6	2
3	Generation of a human induced pluripotent stem cell line (HMGUi002-A) from a healthy male individual. <i>Stem Cell Research</i> , 2019 , 39, 101531	1.6	1
2	Genetik des Typ-2-Diabetes. <i>Diabetologe</i> , 2019 , 15, 267-277	0.2	1
1	DEUS: an R package for accurate small RNA profiling based on differential expression of unique sequences. <i>Bioinformatics</i> , 2019 , 35, 4834-4836	7.2	0