Alena Stancakova

List of Publications by Year
in descending order

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115 papers	31,310 citations	17440 63 h-index	18647 119 g-index
127 all docs	127 docs citations	127 times ranked	36183 citing authors

#	Article	IF	Citations
1	Genetic studies of body mass index yield new insights for obesity biology. Nature, 2015, 518, 197-206.	27.8	3,823
2	Discovery and refinement of loci associated with lipid levels. Nature Genetics, 2013, 45, 1274-1283.	21.4	2,641
3	Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. Nature, 2011, 478, 103-109.	27.8	1,855
4	Defining the role of common variation in the genomic and biological architecture of adult human height. Nature Genetics, 2014, 46, 1173-1186.	21.4	1,818
5	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. Nature Genetics, 2012, 44, 981-990.	21.4	1,748
6	Fine-mapping type 2 diabetes loci to single-variant resolution using high-density imputation and islet-specific epigenome maps. Nature Genetics, 2018, 50, 1505-1513.	21.4	1,331
7	New genetic loci link adipose and insulin biology to body fat distribution. Nature, 2015, 518, 187-196.	27.8	1,328
8	Association studies of up to 1.2 million individuals yield new insights into the genetic etiology of tobacco and alcohol use. Nature Genetics, 2019, 51, 237-244.	21.4	1,307
9	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. Nature Genetics, 2014, 46, 234-244.	21.4	959
10	The genetic architecture of type 2 diabetes. Nature, 2016, 536, 41-47.	27.8	952
11	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. Nature Genetics, 2012, 44, 659-669.	21.4	762
12	Common variants associated with plasma triglycerides and risk for coronary artery disease. Nature Genetics, 2013, 45, 1345-1352.	21.4	754
13	SIRT3 Deficiency and Mitochondrial Protein Hyperacetylation Accelerate the Development of the Metabolic Syndrome. Molecular Cell, 2011, 44, 177-190.	9.7	691
14	Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. Nature Genetics, 2013, 45, 501-512.	21.4	578
15	Physical Activity Attenuates the Influence of FTO Variants on Obesity Risk: A Meta-Analysis of 218,166 Adults and 19,268 Children. PLoS Medicine, 2011, 8, e1001116.	8.4	446
16	Genetic fine mapping and genomic annotation defines causal mechanisms at type 2 diabetes susceptibility loci. Nature Genetics, 2015, 47, 1415-1425.	21.4	365
17	The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. Nature Genetics, 2016, 48, 1171-1184.	21.4	362
18	Refining the accuracy of validated target identification through coding variant fine-mapping in type 2 diabetes. Nature Genetics, 2018, 50, 559-571.	21.4	356

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19	Genome-Wide Association Identifies Nine Common Variants Associated With Fasting Proinsulin Levels and Provides New Insights Into the Pathophysiology of Type 2 Diabetes. Diabetes, 2011, 60, 2624-2634.	0.6	335
20	The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. PLoS Genetics, 2015, 11, e1005378.	3.5	331
21	Changes in Insulin Sensitivity and Insulin Release in Relation to Glycemia and Glucose Tolerance in 6,414 Finnish Men. Diabetes, 2009, 58, 1212-1221.	0.6	324
22	Impact of Type 2 Diabetes Susceptibility Variants on Quantitative Glycemic Traits Reveals Mechanistic Heterogeneity. Diabetes, 2014, 63, 2158-2171.	0.6	297
23	Genetic variation near IRS1 associates with reduced adiposity and an impaired metabolic profile. Nature Genetics, 2011, 43, 753-760.	21.4	289
24	Trans-ancestry meta-analyses identify rare and common variants associated with blood pressure and hypertension. Nature Genetics, 2016, 48, 1151-1161.	21.4	261
25	Increased risk of diabetes with statin treatment is associated with impaired insulin sensitivity and insulin secretion: a 6Âyear follow-up study of the METSIM cohort. Diabetologia, 2015, 58, 1109-1117.	6.3	257
26	Hyperglycemia and a Common Variant of GCKR Are Associated With the Levels of Eight Amino Acids in 9,369 Finnish Men. Diabetes, 2012, 61, 1895-1902.	0.6	251
27	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation. Nature Genetics, 2022, 54, 560-572.	21.4	250
28	Exome array analysis identifies new loci and low-frequency variants influencing insulin processing and secretion. Nature Genetics, 2013, 45, 197-201.	21.4	247
29	New loci for body fat percentage reveal link between adiposity and cardiometabolic disease risk. Nature Communications, 2016, 7, 10495.	12.8	245
30	Genome-Wide Screen for Metabolic Syndrome Susceptibility Loci Reveals Strong Lipid Gene Contribution But No Evidence for Common Genetic Basis for Clustering of Metabolic Syndrome Traits. Circulation: Cardiovascular Genetics, 2012, 5, 242-249.	5.1	182
31	Low-frequency and rare exome chip variants associate with fasting glucose and type 2 diabetes susceptibility. Nature Communications, 2015, 6, 5897.	12.8	173
32	Directional dominance on stature and cognition inÂdiverse human populations. Nature, 2015, 523, 459-462.	27.8	173
33	Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. Nature Communications, 2017, 8, 14977.	12.8	169
34	Association of genetic variation with systolic and diastolic blood pressure among African Americans: the Candidate Gene Association Resource study. Human Molecular Genetics, 2011, 20, 2273-2284.	2.9	168
35	Gene Ã— Physical Activity Interactions in Obesity: Combined Analysis of 111,421 Individuals of European Ancestry. PLoS Genetics, 2013, 9, e1003607.	3.5	168
36	A Central Role for GRB10 in Regulation of Islet Function in Man. PLoS Genetics, 2014, 10, e1004235.	3.5	164

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37	Association of 18 Confirmed Susceptibility Loci for Type 2 Diabetes With Indices of Insulin Release, Proinsulin Conversion, and Insulin Sensitivity in 5,327 Nondiabetic Finnish Men. Diabetes, 2009, 58, 2129-2136.	0.6	161
38	Genome-wide physical activity interactions in adiposity â€• A meta-analysis of 200,452 adults. PLoS Genetics, 2017, 13, e1006528.	3.5	158
39	The Metabolic Syndrome in Men study: a resource for studies of metabolic and cardiovascular diseases. Journal of Lipid Research, 2017, 58, 481-493.	4.2	147
40	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. Nature Communications, 2017, 8, 80.	12.8	147
41	Genetic Regulation of Adipose Gene Expression and Cardio-Metabolic Traits. American Journal of Human Genetics, 2017, 100, 428-443.	6.2	141
42	Insulin sensitivity, insulin release and glucagon-like peptide-1 levels in persons with impaired fasting glucose and/or impaired glucose tolerance in the EUGENE2 study. Diabetologia, 2008, 51, 502-511.	6.3	139
43	A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. American Journal of Human Genetics, 2018, 102, 375-400.	6.2	123
44	Exome sequencing-driven discovery of coding polymorphisms associated with common metabolic phenotypes. Diabetologia, 2013, 56, 298-310.	6.3	119
45	Mendelian Randomization Studies Do Not Support a Causal Role for Reduced Circulating Adiponectin Levels in Insulin Resistance and Type 2 Diabetes. Diabetes, 2013, 62, 3589-3598.	0.6	116
46	Trans-Ethnic Fine-Mapping of Lipid Loci Identifies Population-Specific Signals and Allelic Heterogeneity That Increases the Trait Variance Explained. PLoS Genetics, 2013, 9, e1003379.	3.5	112
47	Multi-ancestry genome-wide geneâ€“smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. Nature Genetics, 2019, 51, 636-648.	21.4	112
48	Nine Amino Acids Are Associated With Decreased Insulin Secretion and Elevated Glucose Levels in a 7.4-Year Follow-up Study of 5,181 Finnish Men. Diabetes, 2019, 68, 1353-1358.	0.6	109
49	Association of Ketone Body Levels With Hyperglycemia and Type 2 Diabetes in 9,398 Finnish Men. Diabetes, 2013, 62, 3618-3626.	0.6	105
50	A Genome-Wide Association Study of IVGTT-Based Measures of First-Phase Insulin Secretion Refines the Underlying Physiology of Type 2 Diabetes Variants. Diabetes, 2017, 66, 2296-2309.	0.6	102
51	A genomic approach to therapeutic target validation identifies a glucose-lowering GLP1R variant protective for coronary heart disease. Science Translational Medicine, 2016, 8, 341ra76.	12.4	100
52	Heterozygous RFX6 protein truncating variants are associated with MODY with reduced penetrance. Nature Communications, 2017, 8, 888.	12.8	95
53	Novel genetic associations for blood pressure identified via gene-alcohol interaction in up to 570K individuals across multiple ancestries. PLoS ONE, 2018, 13, e0198166.	2.5	94
54	Relation of Direct and Surrogate Measures of Insulin Resistance to Cardiovascular Risk Factors in Nondiabetic Finnish Offspring of Type 2 Diabetic Individuals. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 5082-5090.	3.6	85

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55	Plasma fatty acids as predictors of glycaemia and type 2 diabetes. Diabetologia, 2015, 58, 2533-2544.	6.3	85
56	Plasma Mannose Levels Are Associated with Incident Type 2 Diabetes and Cardiovascular Disease. Cell Metabolism, 2017, 26, 281-283.	16.2	85
57	Multiancestry Genome-Wide Association Study of Lipid Levels Incorporating Gene-Alcohol Interactions. American Journal of Epidemiology, 2019, 188, 1033-1054.	3.4	85
58	Associations of autozygosity with a broad range of human phenotypes. Nature Communications, 2019, 10, 4957.	12.8	84
59	Pleiotropic Effects of GIP on Islet Function Involve Osteopontin. Diabetes, 2011, 60, 2424-2433.	0.6	83
60	Lipoprotein subclass profiles in individuals with varying degrees of glucose tolerance: a populationâ€based study of 9399 Finnish men. Journal of Internal Medicine, 2012, 272, 562-572.	6.0	83
61	A Common Variant in TFB1M Is Associated with Reduced Insulin Secretion and Increased Future Risk of Type 2 Diabetes. Cell Metabolism, 2011, 13, 80-91.	16.2	81
62	Effects of 34 Risk Loci for Type 2 Diabetes or Hyperglycemia on Lipoprotein Subclasses and Their Composition in 6,580 Nondiabetic Finnish Men. Diabetes, 2011, 60, 1608-1616.	0.6	77
63	Association of erythrocyte membrane fatty acids with changes in glycemia and risk of type 2 diabetes. American Journal of Clinical Nutrition, 2014, 99, 79-85.	4.7	77
64	Single-Nucleotide Polymorphism rs7754840 ofCDKAL1Is Associated with Impaired Insulin Secretion in Nondiabetic Offspring of Type 2 Diabetic Subjects and in a Large Sample of Men with Normal Glucose Tolerance. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 1924-1930.	3.6	75
65	Link Between GIP and Osteopontin in Adipose Tissue and Insulin Resistance. Diabetes, 2013, 62, 2088-2094.	0.6	75
66	New alcohol-related genes suggest shared genetic mechanisms with neuropsychiatric disorders. Nature Human Behaviour, 2019, 3, 950-961.	12.0	75
67	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. Nature Communications, 2016, 7, 13357.	12.8	74
68	Genetics of metabolic syndrome. Reviews in Endocrine and Metabolic Disorders, 2014, 15, 243-252.	5.7	67
69	Family history of type 2 diabetes increases the risk of both obesity and its complications: is type 2 diabetes a disease of inappropriate lipid storage?. Journal of Internal Medicine, 2015, 277, 540-551.	6.0	67
70	Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies BCL2 and FAM19A2 as Novel Insulin Sensitivity Loci. Diabetes, 2016, 65, 3200-3211.	0.6	67
71	Meta-analysis of Gene-Level Associations for Rare Variants Based on Single-Variant Statistics. American Journal of Human Genetics, 2013, 93, 236-248.	6.2	60
72	Genetics of Type 2 Diabetes. Endocrine Development, 2016, 31, 203-220.	1.3	59

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73	A Candidate Type 2 Diabetes Polymorphism Near the HHEX Locus Affects Acute Glucose-Stimulated Insulin Release in European Populations: Results from the EUGENE2 study. Diabetes, 2008, 57, 514-517.	0.6	53
74	Elevated Plasma Levels of 3-Hydroxyisobutyric Acid Are Associated With Incident Type 2 Diabetes. EBioMedicine, 2018, 27, 151-155.	6.1	53
75	Differential Associations of Inflammatory Markers With Insulin Sensitivity and Secretion: The Prospective METSIM Study. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 3600-3609.	3.6	52
76	New Blood Pressureâ€“Associated Loci Identified in Meta-Analyses of 475â€‰000 Individuals. Circulation: Cardiovascular Genetics, 2017, 10, .	5.1	48
77	Associations of multiple lipoprotein and apolipoprotein measures with worsening of glycemia and incident type 2 diabetes in 6607 non-diabetic Finnish men. Atherosclerosis, 2015, 240, 272-277.	0.8	47
78	A Low-Frequency Inactivating AKT2 Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. Diabetes, 2017, 66, 2019-2032.	0.6	47
79	Identification of Undiagnosed Type 2 Diabetic Individuals by the Finnish Diabetes Risk Score and Biochemical and Genetic Markers: A Population-Based Study of 7232 Finnish Men. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 3858-3862.	3.6	45
80	Association of the FTO gene variant (rs9939609) with cardiovascular disease in men with abnormal glucose metabolism â€“ The Finnish Diabetes Prevention Study. Nutrition, Metabolism and Cardiovascular Diseases, 2011, 21, 691-698.	2.6	45
81	Impact of Positive Family History and Genetic Risk Variants on the Incidence of Diabetes: The Finnish Diabetes Prevention Study. Diabetes Care, 2011, 34, 418-423.	8.6	44
82	A novel surrogate index for hepatic insulin resistance. Diabetologia, 2011, 54, 540-543.	6.3	41
83	Glucose-Dependent Insulinotropic Polypeptide Stimulates Osteopontin Expression in the Vasculature via Endothelin-1 and CREB. Diabetes, 2016, 65, 239-254.	0.6	41
84	Association of Common Genetic Variation in theFOXO1Gene with Î²-Cell Dysfunction, Impaired Glucose Tolerance, and Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 1353-1360.	3.6	39
85	Decreased plasma Î²â€amyloid in the Alzheimer's disease <scp>APP</scp><scp>A</scp>673<scp>T</scp> variant carriers. Annals of Neurology, 2017, 82, 128-132.	5.3	39
86	Simvastatin Impairs Insulin Secretion by Multiple Mechanisms in MIN6 Cells. PLoS ONE, 2015, 10, e0142902.	2.5	39
87	Association of indices of liver and adipocyte insulin resistance with 19 confirmed susceptibility loci for type 2 diabetes in 6,733 non-diabetic Finnish men. Diabetologia, 2011, 54, 563-571.	6.3	38
88	Disentangling the genetics of lean mass. American Journal of Clinical Nutrition, 2019, 109, 276-287.	4.7	38
89	A Partial Loss-of-Function Variant in AKT2 Is Associated With Reduced Insulin-Mediated Glucose Uptake in Multiple Insulin-Sensitive Tissues: A Genotype-Based Callback Positron Emission Tomography Study. Diabetes, 2018, 67, 334-342.	0.6	37
90	Fasting and OGTT-derived Measures of Insulin Resistance as Compared With the Euglycemic-Hyperinsulinemic Clamp in Nondiabetic Finnish Offspring of Type 2 Diabetic Individuals. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 544-550.	3.6	36

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91	Glucose tolerance, insulin sensitivity and insulin release in European non-diabetic carriers of a polymorphism upstream of CDKN2A and CDKN2B. Diabetologia, 2011, 54, 795-802.	6.3	34
92	Both Fasting and Glucose-Stimulated Proinsulin Levels Predict Hyperglycemia and Incident Type 2 Diabetes: A Population-Based Study of 9,396 Finnish Men. PLoS ONE, 2015, 10, e0124028.	2.5	34
93	Short adult stature predicts impaired beta-cell function, insulin resistance, glycemia and type 2 diabetes in Finnish men. Journal of Clinical Endocrinology and Metabolism, 2017, 102, jc.2016-2933.	3.6	32
94	Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. Scientific Data, 2017, 4, 170179.	5.3	31
95	A multi-ancestry genome-wide study incorporating geneâ€“smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. Human Molecular Genetics, 2019, 28, 2615-2633.	2.9	31
96	Identification of seven novel loci associated with amino acid levels using single-variant and gene-based tests in 8545 Finnish men from the METSIM study. Human Molecular Genetics, 2018, 27, 1664-1674.	2.9	30
97	Clinical, Genetic, and Biochemical Characteristics of Early-Onset Diabetes in the Finnish Population. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3018-3026.	3.6	28
98	The D299G/T399I Toll-Like Receptor 4 Variant Associates with Body and Liver Fat: Results from the TULIP and METSIM Studies. PLoS ONE, 2010, 5, e13980.	2.5	27
99	Genetic risk scores in the prediction of plasma glucose, impaired insulin secretion, insulin resistance and incident type 2 diabetes in the METSIM study. Diabetologia, 2017, 60, 1722-1730.	6.3	26
100	Association Analysis of 29,956 Individuals Confirms That a Low-Frequency Variant at CCND2 Halves the Risk of Type 2 Diabetes by Enhancing Insulin Secretion. Diabetes, 2015, 64, 2279-2285.	0.6	24
101	Beneficial effect of simvastatin treatment on LDL oxidation and antioxidant protection is more pronounced in combined hyperlipidemia than in hypercholesterolemia. Pharmacological Research, 2006, 54, 203-207.	7.1	23
102	No Interactions Between Previously Associated 2-Hour Glucose Gene Variants and Physical Activity or BMI on 2-Hour Glucose Levels. Diabetes, 2012, 61, 1291-1296.	0.6	23
103	Common polymorphisms within the NR4A3 locus, encoding the orphan nuclear receptor Nor-1, are associated with enhanced Î²-cell function in non-diabetic subjects. BMC Medical Genetics, 2009, 10, 77.	2.1	22
104	Non-Cholesterol Sterol Levels Predict Hyperglycemia and Conversion to Type 2 Diabetes in Finnish Men. PLoS ONE, 2013, 8, e67406.	2.5	18
105	Decreased plasma Câ€reactive protein levels in <scp>APOE</scp> Îµ4 allele carriers. Annals of Clinical and Translational Neurology, 2018, 5, 1229-1240.	3.7	18
106	Association between liver insulin resistance and cardiovascular risk factors. Journal of Internal Medicine, 2012, 272, 402-408.	6.0	17
107	Glycated Hemoglobin Levels Are Mostly Dependent on Nonglycemic Parameters in 9398 Finnish Men Without Diabetes. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 1989-1996.	3.6	17
108	Genetic variants associated with glycemic response to treatment with dipeptidylpeptidase 4 inhibitors. Pharmacogenomics, 2020, 21, 317-323.	1.3	17

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109	Finnish Diabetes Risk Score Is Associated with Impaired Insulin Secretion and Insulin Sensitivity, Drug-Treated Hypertension and Cardiovascular Disease: A Follow-Up Study of the METSIM Cohort. PLoS ONE, 2016, 11, e0166584.	2.5	16
110	Changes in Cytokine Levels During Acute Hyperinsulinemia in Offspring of Type 2 Diabetic Subjects. Atherosclerosis, 2010, 210, 536-541.	0.8	15
111	Evidence of How rs7575840 Influences Apolipoprotein Bâ€“Containing Lipid Particles. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1201-1207.	2.4	15
112	Variance of the SGK1 Gene Is Associated with Insulin Secretion in Different European Populations: Results from the TUEF, EUGENE2, and METSIM Studies. PLoS ONE, 2008, 3, e3506.	2.5	15
113	The Birth Weight Lowering C-Allele of rs900400 Near LEKR1 and CCNL1 Associates with Elevated Insulin Release following an Oral Glucose Challenge. PLoS ONE, 2011, 6, e27096.	2.5	13
114	Markers of Tissue-Specific Insulin Resistance Predict the Worsening of Hyperglycemia, Incident Type 2 Diabetes and Cardiovascular Disease. PLoS ONE, 2014, 9, e109772.	2.5	12
115	Tissue-Specific Alteration of Metabolic Pathways Influences Glycemic Regulation. SSRN Electronic Journal, 0, , .	0.4	0