Janis Klovins

List of Publications by Year
in descending order

106 papers	14,102 citations
101543 36 h-index	30922 102 g-index
112 all docs	112 docs citations
112 times ranked	23977 citing authors

#	Article	IF	Citations
1	Biological insights from 108 schizophrenia-associated genetic loci. Nature, 2014, 511, 421-427.	27.8	6,934
2	Modeling Linkage Disequilibrium Increases Accuracy of Polygenic Risk Scores. American Journal of Human Genetics, 2015, 97, 576-592.	6.2	1,098
3	Analysis of shared heritability in common disorders of the brain. Science, 2018, 360, .	12.6	1,085
4	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes. Cell, 2018, 173, 1705-1715.e16.	28.9	623
5	Partitioning Heritability of Regulatory and Cell-Type-Specific Variants across 11 Common Diseases. American Journal of Human Genetics, 2014, 95, 535-552.	6.2	569
6	Genetic Structure of Europeans: A View from the North–East. PLoS ONE, 2009, 4, e5472.	2.5	279
7	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. Nature Neuroscience, 2016, 19, 420-431.	14.8	204
8	Variation in the glucose transporter gene SLC2A2 is associated with glycemic response to metformin. Nature Genetics, 2016, 48, 1055-1059.	21.4	165
9	The Melanocortin System in Fugu: Determination of POMC/AGRP/MCR Gene Repertoire and Synteny, As Well As Pharmacology and Anatomical Distribution of the MCRs. Molecular Biology and Evolution, 2004, 21, 563-579.	8.9	164
10	Many obesity-associated SNPs strongly associate with DNA methylation changes at proximal promoters and enhancers. Genome Medicine, 2015, 7, 103.	8.2	124
11	Estimation of Genetic Correlation via Linkage Disequilibrium Score Regression and Genomic Restricted Maximum Likelihood. American Journal of Human Genetics, 2018, 102, 1185-1194.	6.2	119
12	Evolutionary conservation of the structural, pharmacological, and genomic characteristics of the melanocortin receptor subtypes. Peptides, 2005, 26, 1886-1900.	2.4	116
13	Major gender difference in association of FTO gene variant among severely obese children with obesity and obesity related phenotypes. Biochemical and Biophysical Research Communications, 2008, 368, 476-482.	2.1	105
14	Association of genetic variation in the organic cation transporters OCT1, OCT2 and multidrug and toxin extrusion 1 transporter protein genes with the gastrointestinal side effects and lower BMI in metformin-treated type 2 diabetes patients. Pharmacogenetics and Genomics, 2012, 22, 659-666.	1.5	105
15	A Comparison of Ten Polygenic Score Methods for Psychiatric Disorders Applied Across Multiple Cohorts. Biological Psychiatry, 2021, 90, 611-620.	1.3	103
16	Pharmacological Characterization of Loss of Function Mutations of the Human Melanocortin 1 Receptor That Are Associated with Red Hair. Journal of Investigative Dermatology, 2004, 123, 917-923.	0.7	98
17	Association of metformin administration with gut microbiome dysbiosis in healthy volunteers. PLoS ONE, 2018, 13, e0204317.	2.5	96
18	Genome-wide analysis reveals DNA methylation markers that vary with both age and obesity. Gene, 2014, 548, 61-67.	2.2	83

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19	Variants in Pharmacokinetic Transporters and Glycemic Response to Metformin: A Metgen Meta‐Analysis. Clinical Pharmacology and Therapeutics, 2017, 101, 763-772.	4.7	79
20	Cloning, tissue distribution, pharmacology and three-dimensional modelling of melanocortin receptors 4 and 5 in rainbow trout suggest close evolutionary relationship of these subtypes. Biochemical Journal, 2004, 380, 475-486.	3.7	72
21	Genes reveal traces of common recent demographic history for most of the Uralic-speaking populations. Genome Biology, 2018, 19, 139.	8.8	67
22	A long-range interaction in QÎ² RNA that bridges the thousand nucleotides between the M-site and the 3â€² end is required for replication. Rna, 1998, 4, 948-957.	3.5	66
23	Genetic characterization of northeastern Italian population isolates in the context of broader European genetic diversity. European Journal of Human Genetics, 2013, 21, 659-665.	2.8	64
24	Cloning of two melanocortin (MC) receptors in spiny dogfish. FEBS Journal, 2004, 271, 4320-4331.	0.2	63
25	Genome Database of the Latvian Population (LGDB): Design, Goals, and Primary Results. Journal of Epidemiology, 2018, 28, 353-360.	2.4	61
26	Sex-Dependent Shared and Nonshared Genetic Architecture Across Mood and Psychotic Disorders. Biological Psychiatry, 2022, 91, 102-117.	1.3	61
27	Nucleotide sequence of a ssRNA phage from Acinetobacter: kinship to coliphages. Journal of General Virology, 2002, 83, 1523-1533.	2.9	58
28	Functional characterization of two melanocortin (MC) receptors in lamprey showing orthology to the MC1 and MC4 receptor subtypes. BMC Evolutionary Biology, 2007, 7, 101.	3.2	58
29	Presence of melanocortin (MC4) receptor in spiny dogfish suggests an ancient vertebrate origin of central melanocortin system. FEBS Journal, 2003, 270, 213-221.	0.2	56
30	ACTH Receptor (MC2R) Specificity: What Do We Know About Underlying Molecular Mechanisms?. Frontiers in Endocrinology, 2017, 8, 13.	3.5	56
31	Origin of the prolactin-releasing hormone (PRLH) receptors: Evidence of coevolution between PRLH and a redundant neuropeptide Y receptor during vertebrate evolution. Genomics, 2005, 85, 688-703.	2.9	50
32	Amino Acid Metabolism is Significantly Altered at the Time of Admission in Hospital for Severe COVID-19 Patients: Findings from Longitudinal Targeted Metabolomics Analysis. Microbiology Spectrum, 2021, 9, e0033821.	3.0	49
33	A long-range pseudoknot in QÎ² RNA is essential for replication. Journal of Molecular Biology, 1999, 294, 875-884.	4.2	46
34	High Affinity Agonistic Metal Ion Binding Sites within the Melanocortin 4 Receptor Illustrate Conformational Change of Transmembrane Region 3. Journal of Biological Chemistry, 2003, 278, 51521-51526.	3.4	42
35	Variation in FGF1, FOXE1, and TIMP2genes is associated with nonsyndromic cleft lip with or without cleft palate. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 218-225.	1.6	41
36	Novel genetic variant in FTO influences insulin levels and insulin resistance in severely obese children and adolescents. International Journal of Obesity, 2008, 32, 1730-1735.	3.4	39

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37	Identification of glyoxalase 1 polymorphisms associated with enzyme activity. Gene, 2013, 515, 140-143.	2.2	37
38	Rapid evolution of translational control mechanisms in RNA genomes. Journal of Molecular Biology, 1997, 265, 372-384.	4.2	36
39	Agouti-Related Proteins (AGRPs) and Agouti-Signaling Peptide (ASIP) in Fish and Chicken. Annals of the New York Academy of Sciences, 2005, 1040, 363-367.	3.8	36
40	The evolutionary history and tissue mapping of GPR123: specific CNS expression pattern predominantly in thalamic nuclei and regions containing large pyramidal cells. Journal of Neurochemistry, 2007, 100, 1129-1142.	3.9	34
41	Epigenetic markers associated with metformin response and intolerance in drug-naÃ¯ve patients with type 2 diabetes. Science Translational Medicine, 2020, 12, .	12.4	34
42	Determination of the obesity-associated gene variants within the entire FTO gene by ultra-deep targeted sequencing in obese and lean children. International Journal of Obesity, 2013, 37, 424-431.	3.4	32
43	A Genome-Wide Analysis of Populations from European Russia Reveals a New Pole of Genetic Diversity in Northern Europe. PLoS ONE, 2013, 8, e58552.	2.5	32
44	Rescue of the RNA phage genome from RNase III cleavage. Nucleic Acids Research, 1997, 25, 4201-4208.	14.5	30
45	Metformin Strongly Affects Gut Microbiome Composition in High-Fat Diet-Induced Type 2 Diabetes Mouse Model of Both Sexes. Frontiers in Endocrinology, 2021, 12, 626359.	3.5	30
46	Baseline gut microbiome composition predicts metformin therapy short-term efficacy in newly diagnosed type 2 diabetes patients. PLoS ONE, 2020, 15, e0241338.	2.5	30
47	Formation of new genes explains lower intron density in mammalian Rhodopsin G protein-coupled receptors. Molecular Phylogenetics and Evolution, 2007, 43, 864-880.	2.7	28
48	Identification of domains responsible for specific membrane transport and ligand specificity of the ACTH receptor (MC2R). Molecular and Cellular Endocrinology, 2010, 321, 175-183.	3.2	27
49	Harmonising and linking biomedical and clinical data across disparate data archives to enable integrative cross-biobank research. European Journal of Human Genetics, 2016, 24, 521-528.	2.8	27
50	Single nucleotide polymorphisms in the intergenic region between metformin transporter OCT2 and OCT3 coding genes are associated with short-term response to metformin monotherapy in type 2 diabetes mellitus patients. European Journal of Endocrinology, 2016, 175, 531-540.	3.7	24
51	Functional Role, Structure, and Evolution of the Melanocortinâ€4 Receptor. Annals of the New York Academy of Sciences, 2003, 994, 74-83.	3.8	23
52	Polymorphisms in FTO and near TMEM18 associate with type 2 diabetes and predispose to younger age at diagnosis of diabetes. Gene, 2013, 527, 462-468.	2.2	23
53	The Association of Common SNPs and Haplotypes in CETP Gene with HDL Cholesterol Levels in Latvian Population. PLoS ONE, 2013, 8, e64191.	2.5	23
54	Genome-Wide Meta-analysis Identifies Genetic Variants Associated With Glycemic Response to Sulfonylureas. Diabetes Care, 2021, 44, 2673-2682.	8.6	23

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55	Significantly altered peripheral blood cell DNA methylation profile as a result of immediate effect of metformin use in healthy individuals. Clinical Epigenetics, 2018, 10, 156.	4.1	22
56	Next-generation-sequencing-based identification of familial hypercholesterolemia-related mutations in subjects with increased LDL–C levels in a latvian population. BMC Medical Genetics, 2015, 16, 86.	2.1	21
57	Addition of a signal peptide sequence to the α 1D -adrenoceptor gene increases the density of receptors, as determined by [3 H]-prazosin binding in the membranes. British Journal of Pharmacology, 2005, 144, 651-659.	5.4	20
58	Identification of somatostatin receptor type 5 gene polymorphisms associated with acromegaly. European Journal of Endocrinology, 2011, 165, 517-525.	3.7	19
59	Metformin strongly affects transcriptome of peripheral blood cells in healthy individuals. PLoS ONE, 2019, 14, e0224835.	2.5	19
60	Identification and analysis of functionally important amino acids in human purinergic 12 receptor using a <i>Saccharomyces cerevisiae</i> expression system. FEBS Journal, 2012, 279, 180-191.	4.7	18
61	Physiologically based metformin pharmacokinetics model of mice and scale-up to humans for the estimation of concentrations in various tissues. PLoS ONE, 2021, 16, e0249594.	2.5	18
62	Evidence for constitutive dimerization of niacin receptor subtypes. Biochemical and Biophysical Research Communications, 2010, 395, 281-287.	2.1	17
63	A widely used sampling device in colorectal cancer screening programmes allows for large-scale microbiome studies. Gut, 2019, 68, 1723-1725.	12.1	17
64	Association between a rare SNP in the second intron of human Agouti related protein gene and increased BMI. BMC Medical Genetics, 2009, 10, 63.	2.1	16
65	Association of F11 polymorphism rs2289252 with deep vein thrombosis and related phenotypes in population of Latvia. Thrombosis Research, 2014, 134, 659-663.	1.7	16
66	Whole-blood transcriptome profiling reveals signatures of metformin and its therapeutic response. PLoS ONE, 2020, 15, e0237400.	2.5	16
67	Single nucleotide polymorphisms of the purinergic 1 receptor are not associated with myocardial infarction in a Latvian population. Molecular Biology Reports, 2012, 39, 1917-1925.	2.3	15
68	The role of common and rare MC4R variants and FTO polymorphisms in extreme form of obesity. Molecular Biology Reports, 2014, 41, 1491-1500.	2.3	14
69	Functional Characteristics of Multipotent Mesenchymal Stromal Cells from Pituitary Adenomas. Stem Cells International, 2016, 2016, 1-11.	2.5	14
70	Novel susceptibility loci identified in a genome-wide association study of type 2 diabetes complications in population of Latvia. BMC Medical Genomics, 2021, 14, 18.	1.5	12
71	Unusual Genomic Structure: Melanocortin Receptors inFugu. Annals of the New York Academy of Sciences, 2005, 1040, 460-463.	3.8	11
72	Association between CETP, MLXIPL, and TOMM40 polymorphisms and serum lipid levels in a Latvian population. Meta Gene, 2014, 2, 565-578.	0.6	11

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73	Prevalence estimation of celiac disease in the general adult population of Latvia using serology and HLA genotyping. United European Gastroenterology Journal, 2015, 3, 190-199.	3.8	11
74	Hydroxycarboxylic Acid Receptor Ligands Modulate Proinflammatory Cytokine Expression in Human Macrophages and Adipocytes without Affecting Adipose Differentiation. Biological and Pharmaceutical Bulletin, 2018, 41, 1574-1580.	1.4	11
75	A Nonsynonymous Variant I248L of the Adenosine A3 Receptor Is Associated with Coronary Heart Disease in a Latvian Population. DNA and Cell Biology, 2011, 30, 907-911.	1.9	10
76	Replacement of short segments within transmembrane domains of MC2R disrupts retention signal. Journal of Molecular Endocrinology, 2014, 53, 201-215.	2.5	10
77	Polymorphisms in MEN1 and DRD2 genes are associated with the occurrence and characteristics of pituitary adenomas. European Journal of Endocrinology, 2016, 175, 145-153.	3.7	10
78	First Report on the Latvian SARS-CoV-2 Isolate Genetic Diversity. Frontiers in Medicine, 2021, 8, 626000.	2.6	10
79	Metabolomic Fingerprints in Large Population Cohorts: Impact of Preanalytical Heterogeneity. Clinical Chemistry, 2021, 67, 1153-1155.	3.2	10
80	Impact of the pre-examination phase on multicenter metabolomic studies. New Biotechnology, 2022, 68, 37-47.	4.4	10
81	Synthesis and evaluation of (E)-2-(acrylamido)cyclohex-1-enecarboxylic acid derivatives as HCA1, HCA2, and HCA3 receptor agonists. Bioorganic and Medicinal Chemistry, 2014, 22, 3654-3669.	3.0	9
82	Association studies of candidate genes and cleft lip and palate taking into consideration geographical origin. European Journal of Oral Sciences, 2011, 119, 413-417.	1.5	8
83	Pharmacological Characterization of Melanocortin Receptors in Fish Suggests an Important Role for ACTH. Annals of the New York Academy of Sciences, 2005, 1040, 337-339.	3.8	7
84	Association of protein tyrosine phosphatase non-receptor 22 (PTPN22) rs2476601 and Kruppel-like factor 12 (KLF12) rs1324913 single nucleotide polymorphisms with rheumatoid arthritis in a Latvian population. Scandinavian Journal of Rheumatology, 2011, 40, 491-492.	1.1	7
85	Stronger Association of Common Variants in TCF7L2 Gene with Nonobese Type 2 Diabetes in the Latvian Population. Experimental and Clinical Endocrinology and Diabetes, 2012, 120, 466-468.	1.2	6
86	Replication of LZTFL1 Gene Region as a Susceptibility Locus for COVID-19 in Latvian Population. Virologica Sinica, 2021, 36, 1241-1244.	3.0	6
87	Evaluation of the Possibility to Detect Circulating Tumor DNA From Pituitary Adenoma. Frontiers in Endocrinology, 2019, 10, 615.	3.5	5
88	Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue. Frontiers in Endocrinology, 2020, 11, 313.	3.5	5
89	Synthesis and evaluation of (E)-2-(5-phenylpent-2-en-4-ynamido)cyclohex-1-ene-1-carboxylate derivatives as HCA2 receptor agonists. Bioorganic and Medicinal Chemistry, 2017, 25, 4314-4329.	3.0	4
90	Medication for Acromegaly Reduces Expression of MUC16, MACC1 and GRHL2 in Pituitary Neuroendocrine Tumour Tissue. Frontiers in Oncology, 2020, 10, 593760.	2.8	4

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91	Metformin Transport Rates Between Plasma and Red Blood Cells in Humans. Clinical Pharmacokinetics, 2022, 61, 133-142.	3.5	4
92	The Specificity and Broad Multitarget Properties of Ligands for the Free Fatty Acid Receptors FFA3/GPR41 and FFA2/GPR43 and the Related Hydroxycarboxylic Acid Receptor HCA2/GPR109A. Pharmaceuticals, 2021, 14, 987.	3.8	4
93	Expression of human melanocortin 4 receptor in Saccharomyces cerevisiae. Open Life Sciences, 2011, 6, 167-175.	1.4	3
94	BCL3 gene role in facial morphology. Birth Defects Research Part A: Clinical and Molecular Teratology, 2012, 94, 918-924.	1.6	3
95	Role of genetic factors on the effect of additional loading doses and two maintenance doses used to overcome clopidogrel hyporesponsiveness. Medicina (Lithuania), 2014, 50, 19-27.	2.0	3
96	Population Genetics of Latvians in the Context of Admixture between North-Eastern European Ethnic Groups. Proceedings of the Latvian Academy of Sciences, 2018, 72, 131-151.	0.1	3
97	Analysis of Polymorphisms at the Adiponectin Gene Locus in Association with Type 2 Diabetes, Body Mass Index and Cardiovascular Traits in Latvian Population. Proceedings of the Latvian Academy of Sciences, 2009, 63, 174-179.	0.1	2
98	HFE-related hemochromatosis risk mutations in Latvian population. Annals of Hematology, 2015, 94, 343-344.	1.8	2
99	Population‐based identity‐by‐descent mapping combined with exome sequencing to detect rare risk variants for schizophrenia. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2019, 180, 223-231.	1.7	2
100	Thiopurine S-methyltransferase genetic polymorphisms in adult patients with inflammatory bowel diseases in the Latvian population. Therapeutic Advances in Gastroenterology, 2020, 13, 175628482093742.	3.2	2
101	Case report: recurrent pituitary adenoma has increased load of somatic variants. BMC Endocrine Disorders, 2020, 20, 17.	2.2	2
102	Glucose Metabolism Disorders and Risk Factors of Type 2 Diabetes in 45-74-Years-old Population in RÄ«ga, Latvia. Proceedings of the Latvian Academy of Sciences, 2009, 63, 141-146.	0.1	1
103	The Correlation Between Abnormal Uterine Artery Flow in the First Trimester and Genetic Thrombophilic Alteration: A Prospective Case-Controlled Pilot Study. Diagnostics, 2020, 10, 654.	2.6	1
104	Case Report: Micro-RNAs in Plasma From Bilateral Inferior Petrosal Sinus Sampling and Peripheral Blood From Corticotroph Pituitary Neuroendocrine Tumors. Frontiers in Endocrinology, 2022, 13, 748152.	3.5	1
105	Interleukin 18 gene promoter polymorphisms in Latvian patients with rheumatoid arthritis. Proceedings of the Latvian Academy of Sciences, 2011, 65, 1-6.	0.1	0
106	Evaluation Of Massive Parallel Sequencing As A Diagnostic Tool For Familial Hypercholesterolemia. Proceedings of the Latvian Academy of Sciences, 2015, 69, 1-7.	0.1	0