

Janis Klovinš

List of Publications by Year in descending order

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106
papers

14,102
citations

101384

36
h-index

30848

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. <i>Nature</i> , 2014, 511, 421-427.	13.7	6,934
2	Modeling Linkage Disequilibrium Increases Accuracy of Polygenic Risk Scores. <i>American Journal of Human Genetics</i> , 2015, 97, 576-592.	2.6	1,098
3	Analysis of shared heritability in common disorders of the brain. <i>Science</i> , 2018, 360, .	6.0	1,085
4	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes. <i>Cell</i> , 2018, 173, 1705-1715.e16.	13.5	623
5	Partitioning Heritability of Regulatory and Cell-Type-Specific Variants across 11 Common Diseases. <i>American Journal of Human Genetics</i> , 2014, 95, 535-552.	2.6	569
6	Genetic Structure of Europeans: A View from the Northâ€œEast. <i>PLoS ONE</i> , 2009, 4, e5472.	1.1	279
7	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. <i>Nature Neuroscience</i> , 2016, 19, 420-431.	7.1	204
8	Variation in the glucose transporter gene SLC2A2 is associated with glycemic response to metformin. <i>Nature Genetics</i> , 2016, 48, 1055-1059.	9.4	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. <i>Molecular Biology and Evolution</i> , 2004, 21, 563-579.	3.5	164
10	Many obesity-associated SNPs strongly associate with DNA methylation changes at proximal promoters and enhancers. <i>Genome Medicine</i> , 2015, 7, 103.	3.6	124
11	Estimation of Genetic Correlation via Linkage Disequilibrium Score Regression and Genomic Restricted Maximum Likelihood. <i>American Journal of Human Genetics</i> , 2018, 102, 1185-1194.	2.6	119
12	Evolutionary conservation of the structural, pharmacological, and genomic characteristics of the melanocortin receptor subtypes. <i>Peptides</i> , 2005, 26, 1886-1900.	1.2	116
13	Major gender difference in association of FTO gene variant among severely obese children with obesity and obesity related phenotypes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 476-482.	1.0	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. <i>Pharmacogenetics and Genomics</i> , 2012, 22, 659-666.	0.7	105
15	A Comparison of Ten Polygenic Score Methods for Psychiatric Disorders Applied Across Multiple Cohorts. <i>Biological Psychiatry</i> , 2021, 90, 611-620.	0.7	103
16	Pharmacological Characterization of Loss of Function Mutations of the Human Melanocortin 1 Receptor That Are Associated with Red Hair. <i>Journal of Investigative Dermatology</i> , 2004, 123, 917-923.	0.3	98
17	Association of metformin administration with gut microbiome dysbiosis in healthy volunteers. <i>PLoS ONE</i> , 2018, 13, e0204317.	1.1	96
18	Genome-wide analysis reveals DNA methylation markers that vary with both age and obesity. <i>Gene</i> , 2014, 548, 61-67.	1.0	83

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19	Variants in Pharmacokinetic Transporters and Glycemic Response to Metformin: A Meta-Analysis. <i>Clinical Pharmacology and Therapeutics</i> , 2017, 101, 763-772.	2.3	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. <i>Biochemical Journal</i> , 2004, 380, 475-486.	1.7	72
21	Genes reveal traces of common recent demographic history for most of the Uralic-speaking populations. <i>Genome Biology</i> , 2018, 19, 139.	3.8	67
22	A long-range interaction in Q $\hat{1}$ ² RNA that bridges the thousand nucleotides between the M-site and the 3 \hat{a} ² end is required for replication. <i>Rna</i> , 1998, 4, 948-957.	1.6	66
23	Genetic characterization of northeastern Italian population isolates in the context of broader European genetic diversity. <i>European Journal of Human Genetics</i> , 2013, 21, 659-665.	1.4	64
24	Cloning of two melanocortin (MC) receptors in spiny dogfish. <i>FEBS Journal</i> , 2004, 271, 4320-4331.	0.2	63
25	Genome Database of the Latvian Population (LGDB): Design, Goals, and Primary Results. <i>Journal of Epidemiology</i> , 2018, 28, 353-360.	1.1	61
26	Sex-Dependent Shared and Nonshared Genetic Architecture Across Mood and Psychotic Disorders. <i>Biological Psychiatry</i> , 2022, 91, 102-117.	0.7	61
27	Nucleotide sequence of a ssRNA phage from <i>Acinetobacter</i> : kinship to coliphages. <i>Journal of General Virology</i> , 2002, 83, 1523-1533.	1.3	58
28	Functional characterization of two melanocortin (MC) receptors in lamprey showing orthology to the MC1 and MC4 receptor subtypes. <i>BMC Evolutionary Biology</i> , 2007, 7, 101.	3.2	58
29	Presence of melanocortin (MC4) receptor in spiny dogfish suggests an ancient vertebrate origin of central melanocortin system. <i>FEBS Journal</i> , 2003, 270, 213-221.	0.2	56
30	ACTH Receptor (MC2R) Specificity: What Do We Know About Underlying Molecular Mechanisms?. <i>Frontiers in Endocrinology</i> , 2017, 8, 13.	1.5	56
31	Origin of the prolactin-releasing hormone (PRLH) receptors: Evidence of coevolution between PRLH and a redundant neuropeptide Y receptor during vertebrate evolution. <i>Genomics</i> , 2005, 85, 688-703.	1.3	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. <i>Microbiology Spectrum</i> , 2021, 9, e0033821.	1.2	49
33	A long-range pseudoknot in Q $\hat{1}$ ² RNA is essential for replication. <i>Journal of Molecular Biology</i> , 1999, 294, 875-884.	2.0	46
34	High Affinity Agonistic Metal Ion Binding Sites within the Melanocortin 4 Receptor Illustrate Conformational Change of Transmembrane Region 3. <i>Journal of Biological Chemistry</i> , 2003, 278, 51521-51526.	1.6	42
35	Variation in FGF1, FOXE1, and TIMP2 genes is associated with nonsyndromic cleft lip with or without cleft palate. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 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. <i>International Journal of Obesity</i> , 2008, 32, 1730-1735.	1.6	39

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37	Identification of glyoxalase 1 polymorphisms associated with enzyme activity. <i>Gene</i> , 2013, 515, 140-143.	1.0	37
38	Rapid evolution of translational control mechanisms in RNA genomes. <i>Journal of Molecular Biology</i> , 1997, 265, 372-384.	2.0	36
39	Agouti-Related Proteins (AGRP) and Agouti-Signaling Peptide (ASIP) in Fish and Chicken. <i>Annals of the New York Academy of Sciences</i> , 2005, 1040, 363-367.	1.8	36
40	The evolutionary history and tissue mapping of GPR123: specific CNS expression pattern predominantly in thalamic nuclei and regions containing large pyramidal cells. <i>Journal of Neurochemistry</i> , 2007, 100, 1129-1142.	2.1	34
41	Epigenetic markers associated with metformin response and intolerance in drug-naïve patients with type 2 diabetes. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	34
42	Determination of the obesity-associated gene variants within the entire FTO gene by ultra-deep targeted sequencing in obese and lean children. <i>International Journal of Obesity</i> , 2013, 37, 424-431.	1.6	32
43	A Genome-Wide Analysis of Populations from European Russia Reveals a New Pole of Genetic Diversity in Northern Europe. <i>PLoS ONE</i> , 2013, 8, e58552.	1.1	32
44	Rescue of the RNA phage genome from RNase III cleavage. <i>Nucleic Acids Research</i> , 1997, 25, 4201-4208.	6.5	30
45	Metformin Strongly Affects Gut Microbiome Composition in High-Fat Diet-Induced Type 2 Diabetes Mouse Model of Both Sexes. <i>Frontiers in Endocrinology</i> , 2021, 12, 626359.	1.5	30
46	Baseline gut microbiome composition predicts metformin therapy short-term efficacy in newly diagnosed type 2 diabetes patients. <i>PLoS ONE</i> , 2020, 15, e0241338.	1.1	30
47	Formation of new genes explains lower intron density in mammalian Rhodopsin G protein-coupled receptors. <i>Molecular Phylogenetics and Evolution</i> , 2007, 43, 864-880.	1.2	28
48	Identification of domains responsible for specific membrane transport and ligand specificity of the ACTH receptor (MC2R). <i>Molecular and Cellular Endocrinology</i> , 2010, 321, 175-183.	1.6	27
49	Harmonising and linking biomedical and clinical data across disparate data archives to enable integrative cross-biobank research. <i>European Journal of Human Genetics</i> , 2016, 24, 521-528.	1.4	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. <i>European Journal of Endocrinology</i> , 2016, 175, 531-540.	1.9	24
51	Functional Role, Structure, and Evolution of the Melanocortin-4 Receptor. <i>Annals of the New York Academy of Sciences</i> , 2003, 994, 74-83.	1.8	23
52	Polymorphisms in FTO and near TMEM18 associate with type 2 diabetes and predispose to younger age at diagnosis of diabetes. <i>Gene</i> , 2013, 527, 462-468.	1.0	23
53	The Association of Common SNPs and Haplotypes in CETP Gene with HDL Cholesterol Levels in Latvian Population. <i>PLoS ONE</i> , 2013, 8, e64191.	1.1	23
54	Genome-Wide Meta-analysis Identifies Genetic Variants Associated With Glycemic Response to Sulfonylureas. <i>Diabetes Care</i> , 2021, 44, 2673-2682.	4.3	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. <i>Clinical Epigenetics</i> , 2018, 10, 156.	1.8	22
56	Next-generation-sequencing-based identification of familial hypercholesterolemia-related mutations in subjects with increased LDLâ€C levels in a latvian population. <i>BMC Medical Genetics</i> , 2015, 16, 86.	2.1	21
57	Addition of a signal peptide sequence to the β 1D -adrenoceptor gene increases the density of receptors, as determined by [³ H]-prazosin binding in the membranes. <i>British Journal of Pharmacology</i> , 2005, 144, 651-659.	2.7	20
58	Identification of somatostatin receptor type 5 gene polymorphisms associated with acromegaly. <i>European Journal of Endocrinology</i> , 2011, 165, 517-525.	1.9	19
59	Metformin strongly affects transcriptome of peripheral blood cells in healthy individuals. <i>PLoS ONE</i> , 2019, 14, e0224835.	1.1	19
60	Identification and analysis of functionally important amino acids in human purinergicâ€f12 receptor using a <i>Saccharomycesâ€f cerevisiae</i> expression system. <i>FEBS Journal</i> , 2012, 279, 180-191.	2.2	18
61	Physiologically based metformin pharmacokinetics model of mice and scale-up to humans for the estimation of concentrations in various tissues. <i>PLoS ONE</i> , 2021, 16, e0249594.	1.1	18
62	Evidence for constitutive dimerization of niacin receptor subtypes. <i>Biochemical and Biophysical Research Communications</i> , 2010, 395, 281-287.	1.0	17
63	A widely used sampling device in colorectal cancer screening programmes allows for large-scale microbiome studies. <i>Gut</i> , 2019, 68, 1723-1725.	6.1	17
64	Association between a rare SNP in the second intron of human Agouti related protein gene and increased BMI. <i>BMC Medical Genetics</i> , 2009, 10, 63.	2.1	16
65	Association of F11 polymorphism rs2289252 with deep vein thrombosis and related phenotypes in population of Latvia. <i>Thrombosis Research</i> , 2014, 134, 659-663.	0.8	16
66	Whole-blood transcriptome profiling reveals signatures of metformin and its therapeutic response. <i>PLoS ONE</i> , 2020, 15, e0237400.	1.1	16
67	Single nucleotide polymorphisms of the purinergic 1 receptor are not associated with myocardial infarction in a Latvian population. <i>Molecular Biology Reports</i> , 2012, 39, 1917-1925.	1.0	15
68	The role of common and rare MC4R variants and FTO polymorphisms in extreme form of obesity. <i>Molecular Biology Reports</i> , 2014, 41, 1491-1500.	1.0	14
69	Functional Characteristics of Multipotent Mesenchymal Stromal Cells from Pituitary Adenomas. <i>Stem Cells International</i> , 2016, 2016, 1-11.	1.2	14
70	Novel susceptibility loci identified in a genome-wide association study of type 2 diabetes complications in population of Latvia. <i>BMC Medical Genomics</i> , 2021, 14, 18.	0.7	12
71	Unusual Genomic Structure: Melanocortin Receptors in Fugu. <i>Annals of the New York Academy of Sciences</i> , 2005, 1040, 460-463.	1.8	11
72	Association between CETP, MLXIPL, and TOMM40 polymorphisms and serum lipid levels in a Latvian population. <i>Meta Gene</i> , 2014, 2, 565-578.	0.3	11

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73	Prevalence estimation of celiac disease in the general adult population of Latvia using serology and HLA genotyping. <i>United European Gastroenterology Journal</i> , 2015, 3, 190-199.	1.6	11
74	Hydroxycarboxylic Acid Receptor Ligands Modulate Proinflammatory Cytokine Expression in Human Macrophages and Adipocytes without Affecting Adipose Differentiation. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1574-1580.	0.6	11
75	A Nonsynonymous Variant I248L of the Adenosine A3 Receptor Is Associated with Coronary Heart Disease in a Latvian Population. <i>DNA and Cell Biology</i> , 2011, 30, 907-911.	0.9	10
76	Replacement of short segments within transmembrane domains of MC2R disrupts retention signal. <i>Journal of Molecular Endocrinology</i> , 2014, 53, 201-215.	1.1	10
77	Polymorphisms in MEN1 and DRD2 genes are associated with the occurrence and characteristics of pituitary adenomas. <i>European Journal of Endocrinology</i> , 2016, 175, 145-153.	1.9	10
78	First Report on the Latvian SARS-CoV-2 Isolate Genetic Diversity. <i>Frontiers in Medicine</i> , 2021, 8, 626000.	1.2	10
79	Metabolomic Fingerprints in Large Population Cohorts: Impact of Preanalytical Heterogeneity. <i>Clinical Chemistry</i> , 2021, 67, 1153-1155.	1.5	10
80	Impact of the pre-examination phase on multicenter metabolomic studies. <i>New Biotechnology</i> , 2022, 68, 37-47.	2.4	10
81	Synthesis and evaluation of (E)-2-(acrylamido)cyclohex-1-enecarboxylic acid derivatives as HCA1, HCA2, and HCA3 receptor agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 3654-3669.	1.4	9
82	Association studies of candidate genes and cleft lip and palate taking into consideration geographical origin. <i>European Journal of Oral Sciences</i> , 2011, 119, 413-417.	0.7	8
83	Pharmacological Characterization of Melanocortin Receptors in Fish Suggests an Important Role for ACTH. <i>Annals of the New York Academy of Sciences</i> , 2005, 1040, 337-339.	1.8	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. <i>Scandinavian Journal of Rheumatology</i> , 2011, 40, 491-492.	0.6	7
85	Stronger Association of Common Variants in TCF7L2 Gene with Nonobese Type 2 Diabetes in the Latvian Population. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2012, 120, 466-468.	0.6	6
86	Replication of LZTFL1 Gene Region as a Susceptibility Locus for COVID-19 in Latvian Population. <i>Virologica Sinica</i> , 2021, 36, 1241-1244.	1.2	6
87	Evaluation of the Possibility to Detect Circulating Tumor DNA From Pituitary Adenoma. <i>Frontiers in Endocrinology</i> , 2019, 10, 615.	1.5	5
88	Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue. <i>Frontiers in Endocrinology</i> , 2020, 11, 313.	1.5	5
89	Synthesis and evaluation of (E)-2-(5-phenylpent-2-en-4-ynamido)cyclohex-1-ene-1-carboxylate derivatives as HCA2 receptor agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4314-4329.	1.4	4
90	Medication for Acromegaly Reduces Expression of MUC16, MACC1 and GRHL2 in Pituitary Neuroendocrine Tumour Tissue. <i>Frontiers in Oncology</i> , 2020, 10, 593760.	1.3	4

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91	Metformin Transport Rates Between Plasma and Red Blood Cells in Humans. <i>Clinical Pharmacokinetics</i> , 2022, 61, 133-142.	1.6	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. <i>Pharmaceuticals</i> , 2021, 14, 987.	1.7	4
93	Expression of human melanocortin 4 receptor in <i>Saccharomyces cerevisiae</i> . <i>Open Life Sciences</i> , 2011, 6, 167-175.	0.6	3
94	BCL3 gene role in facial morphology. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 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. <i>Medicina (Lithuania)</i> , 2014, 50, 19-27.	0.8	3
96	Population Genetics of Latvians in the Context of Admixture between North-Eastern European Ethnic Groups. <i>Proceedings of the Latvian Academy of Sciences</i> , 2018, 72, 131-151.	0.0	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. <i>Proceedings of the Latvian Academy of Sciences</i> , 2009, 63, 174-179.	0.0	2
98	HFE-related hemochromatosis risk mutations in Latvian population. <i>Annals of Hematology</i> , 2015, 94, 343-344.	0.8	2
99	Population-based identity-by-descent mapping combined with exome sequencing to detect rare risk variants for schizophrenia. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2019, 180, 223-231.	1.1	2
100	Thiopurine S-methyltransferase genetic polymorphisms in adult patients with inflammatory bowel diseases in the Latvian population. <i>Therapeutic Advances in Gastroenterology</i> , 2020, 13, 175628482093742.	1.4	2
101	Case report: recurrent pituitary adenoma has increased load of somatic variants. <i>BMC Endocrine Disorders</i> , 2020, 20, 17.	0.9	2
102	Glucose Metabolism Disorders and Risk Factors of Type 2 Diabetes in 45-74-Years-old Population in Rāķga, Latvia. <i>Proceedings of the Latvian Academy of Sciences</i> , 2009, 63, 141-146.	0.0	1
103	The Correlation Between Abnormal Uterine Artery Flow in the First Trimester and Genetic Thrombophilic Alteration: A Prospective Case-Controlled Pilot Study. <i>Diagnostics</i> , 2020, 10, 654.	1.3	1
104	Case Report: Micro-RNAs in Plasma From Bilateral Inferior Petrosal Sinus Sampling and Peripheral Blood From Corticotroph Pituitary Neuroendocrine Tumors. <i>Frontiers in Endocrinology</i> , 2022, 13, 748152.	1.5	1
105	Interleukin 18 gene promoter polymorphisms in Latvian patients with rheumatoid arthritis. <i>Proceedings of the Latvian Academy of Sciences</i> , 2011, 65, 1-6.	0.0	0
106	Evaluation Of Massive Parallel Sequencing As A Diagnostic Tool For Familial Hypercholesterolemia. <i>Proceedings of the Latvian Academy of Sciences</i> , 2015, 69, 1-7.	0.0	0