Janis Klovins

List of Publications by Year
in descending order

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	Sex-Dependent Shared and Nonshared Genetic Architecture Across Mood and Psychotic Disorders. Biological Psychiatry, 2022, 91, 102-117.	0.7	61
2	Metformin Transport Rates Between Plasma and Red Blood Cells in Humans. Clinical Pharmacokinetics, 2022, 61, 133-142.	1.6	4
3	Impact of the pre-examination phase on multicenter metabolomic studies. New Biotechnology, 2022, 68, 37-47.	2.4	10
4	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.	1.5	1
5	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.	1.5	30
6	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.	1.1	18
7	First Report on the Latvian SARS-CoV-2 Isolate Genetic Diversity. Frontiers in Medicine, 2021, 8, 626000.	1.2	10
8	A Comparison of Ten Polygenic Score Methods for Psychiatric Disorders Applied Across Multiple Cohorts. Biological Psychiatry, 2021, 90, 611-620.	0.7	103
9	Metabolomic Fingerprints in Large Population Cohorts: Impact of Preanalytical Heterogeneity. Clinical Chemistry, 2021, 67, 1153-1155.	1.5	10
10	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.	1.7	4
11	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.	0.7	12
12	Genome-Wide Meta-analysis Identifies Genetic Variants Associated With Glycemic Response to Sulfonylureas. Diabetes Care, 2021, 44, 2673-2682.	4.3	23
13	Replication of LZTFL1 Gene Region as a Susceptibility Locus for COVID-19 in Latvian Population. Virologica Sinica, 2021, 36, 1241-1244.	1.2	6
14	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.	1.2	49
15	Whole-blood transcriptome profiling reveals signatures of metformin and its therapeutic response. PLoS ONE, 2020, 15, e0237400.	1.1	16
16	Thiopurine S-methyltransferase genetic polymorphisms in adult patients with inflammatory bowel diseases in the Latvian population. Therapeutic Advances in Gastroenterology, 2020, 13, 175628482093742.	1.4	2
17	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.	1.3	1
18	Epigenetic markers associated with metformin response and intolerance in drug-naÃ¯ve patients with type 2 diabetes. Science Translational Medicine, 2020, 12, .	5.8	34

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19	Pituispheres Contain Genetic Variants Characteristic to Pituitary Adenoma Tumor Tissue. Frontiers in Endocrinology, 2020, 11, 313.	1.5	5
20	Medication for Acromegaly Reduces Expression of MUC16, MACC1 and GRHL2 in Pituitary Neuroendocrine Tumour Tissue. Frontiers in Oncology, 2020, 10, 593760.	1.3	4
21	Case report: recurrent pituitary adenoma has increased load of somatic variants. BMC Endocrine Disorders, 2020, 20, 17.	0.9	2
22	Baseline gut microbiome composition predicts metformin therapy short-term efficacy in newly diagnosed type 2 diabetes patients. PLoS ONE, 2020, 15, e0241338.	1.1	30
23	Evaluation of the Possibility to Detect Circulating Tumor DNA From Pituitary Adenoma. Frontiers in Endocrinology, 2019, 10, 615.	1.5	5
24	Metformin strongly affects transcriptome of peripheral blood cells in healthy individuals. PLoS ONE, 2019, 14, e0224835.	1.1	19
25	Populationâ€based identityâ€byâ€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.	1.1	2
26	A widely used sampling device in colorectal cancer screening programmes allows for large-scale microbiome studies. Gut, 2019, 68, 1723-1725.	6.1	17
27	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.	1.8	22
28	Genes reveal traces of common recent demographic history for most of the Uralic-speaking populations. Genome Biology, 2018, 19, 139.	3.8	67
29	Association of metformin administration with gut microbiome dysbiosis in healthy volunteers. PLoS ONE, 2018, 13, e0204317.	1.1	96
30	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.	0.6	11
31	Estimation of Genetic Correlation via Linkage Disequilibrium Score Regression and Genomic Restricted Maximum Likelihood. American Journal of Human Genetics, 2018, 102, 1185-1194.	2.6	119
32	Genome Database of the Latvian Population (LGDB): Design, Goals, and Primary Results. Journal of Epidemiology, 2018, 28, 353-360.	1.1	61
33	Analysis of shared heritability in common disorders of the brain. Science, 2018, 360, .	6.0	1,085
34	Genomic Dissection of Bipolar Disorder and Schizophrenia, Including 28 Subphenotypes. Cell, 2018, 173, 1705-1715.e16.	13.5	623
35	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.	0.0	3
36	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.	1.4	4

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37	Variants in Pharmacokinetic Transporters and Glycemic Response to Metformin: A Metgen Metaâ€Analysis. Clinical Pharmacology and Therapeutics, 2017, 101, 763-772.	2.3	79
38	ACTH Receptor (MC2R) Specificity: What Do We Know About Underlying Molecular Mechanisms?. Frontiers in Endocrinology, 2017, 8, 13.	1.5	56
39	Functional Characteristics of Multipotent Mesenchymal Stromal Cells from Pituitary Adenomas. Stem Cells International, 2016, 2016, 1-11.	1.2	14
40	Polymorphisms in MEN1 and DRD2 genes are associated with the occurrence and characteristics of pituitary adenomas. European Journal of Endocrinology, 2016, 175, 145-153.	1.9	10
41	Variation in the glucose transporter gene SLC2A2 is associated with glycemic response to metformin. Nature Genetics, 2016, 48, 1055-1059.	9.4	165
42	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.	1.9	24
43	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. Nature Neuroscience, 2016, 19, 420-431.	7.1	204
44	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.	1.4	27
45	Many obesity-associated SNPs strongly associate with DNA methylation changes at proximal promoters and enhancers. Genome Medicine, 2015, 7, 103.	3.6	124
46	Next-generation-sequencing-based identification of familial hypercholesterolemia-related mutations in subjects with increased LDLâ€“C levels in a latvian population. BMC Medical Genetics, 2015, 16, 86.	2.1	21
47	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.	1.6	11
48	HFE-related hemochromatosis risk mutations in Latvian population. Annals of Hematology, 2015, 94, 343-344.	0.8	2
49	Modeling Linkage Disequilibrium Increases Accuracy of Polygenic Risk Scores. American Journal of Human Genetics, 2015, 97, 576-592.	2.6	1,098
50	Evaluation Of Massive Parallel Sequencing As A Diagnostic Tool For Familial Hypercholesterolemia. Proceedings of the Latvian Academy of Sciences, 2015, 69, 1-7.	0.0	0
51	Replacement of short segments within transmembrane domains of MC2R disrupts retention signal. Journal of Molecular Endocrinology, 2014, 53, 201-215.	1.1	10
52	The role of common and rare MC4R variants and FTO polymorphisms in extreme form of obesity. Molecular Biology Reports, 2014, 41, 1491-1500.	1.0	14
53	Partitioning Heritability of Regulatory and Cell-Type-Specific Variants across 11 Common Diseases. American Journal of Human Genetics, 2014, 95, 535-552.	2.6	569
54	Association between CETP, MLXIPL, and TOMM40 polymorphisms and serum lipid levels in a Latvian population. Meta Gene, 2014, 2, 565-578.	0.3	11

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55	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.	0.8	3
56	Biological insights from 108 schizophrenia-associated genetic loci. Nature, 2014, 511, 421-427.	13.7	6,934
57	Genome-wide analysis reveals DNA methylation markers that vary with both age and obesity. Gene, 2014, 548, 61-67.	1.0	83
58	Association of F11 polymorphism rs2289252 with deep vein thrombosis and related phenotypes in population of Latvia. Thrombosis Research, 2014, 134, 659-663.	0.8	16
59	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.	1.4	9
60	Genetic characterization of northeastern Italian population isolates in the context of broader European genetic diversity. European Journal of Human Genetics, 2013, 21, 659-665.	1.4	64
61	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.	1.0	23
62	Identification of glyoxalase 1 polymorphisms associated with enzyme activity. Gene, 2013, 515, 140-143.	1.0	37
63	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.	1.6	32
64	A Genome-Wide Analysis of Populations from European Russia Reveals a New Pole of Genetic Diversity in Northern Europe. PLoS ONE, 2013, 8, e58552.	1.1	32
65	The Association of Common SNPs and Haplotypes in CETP Gene with HDL Cholesterol Levels in Latvian Population. PLoS ONE, 2013, 8, e64191.	1.1	23
66	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.	0.6	6
67	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.	0.7	105
68	BCL3 gene role in facial morphology. Birth Defects Research Part A: Clinical and Molecular Teratology, 2012, 94, 918-924.	1.6	3
69	Identification and analysis of functionally important amino acids in human purinergicâ€ƒ12 receptor using a Saccharomycesâ€ƒcerevisiae expression system. FEBS Journal, 2012, 279, 180-191.	2.2	18
70	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.	1.0	15
71	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.	0.6	7
72	Identification of somatostatin receptor type 5 gene polymorphisms associated with acromegaly. European Journal of Endocrinology, 2011, 165, 517-525.	1.9	19

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73	Interleukin 18 gene promoter polymorphisms in Latvian patients with rheumatoid arthritis. Proceedings of the Latvian Academy of Sciences, 2011, 65, 1-6.	0.0	0
74	Association studies of candidate genes and cleft lip and palate taking into consideration geographical origin. European Journal of Oral Sciences, 2011, 119, 413-417.	0.7	8
75	Expression of human melanocortin 4 receptor in Saccharomyces cerevisiae. Open Life Sciences, 2011, 6, 167-175.	0.6	3
76	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
77	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.	0.9	10
78	Identification of domains responsible for specific membrane transport and ligand specificity of the ACTH receptor (MC2R). Molecular and Cellular Endocrinology, 2010, 321, 175-183.	1.6	27
79	Evidence for constitutive dimerization of niacin receptor subtypes. Biochemical and Biophysical Research Communications, 2010, 395, 281-287.	1.0	17
80	Genetic Structure of Europeans: A View from the Northâ€“East. PLoS ONE, 2009, 4, e5472.	1.1	279
81	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
82	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.	0.0	1
83	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.	0.0	2
84	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.	1.6	39
85	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.	1.0	105
86	Formation of new genes explains lower intron density in mammalian Rhodopsin G protein-coupled receptors. Molecular Phylogenetics and Evolution, 2007, 43, 864-880.	1.2	28
87	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.	2.1	34
88	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
89	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.	1.8	7
90	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.	1.8	36

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91	Unusual Genomic Structure: Melanocortin Receptors inFugu. Annals of the New York Academy of Sciences, 2005, 1040, 460-463.	1.8	11
92	Addition of a signal peptide sequence to the Î± 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.	2.7	20
93	Evolutionary conservation of the structural, pharmacological, and genomic characteristics of the melanocortin receptor subtypes. Peptides, 2005, 26, 1886-1900.	1.2	116
94	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.	1.3	50
95	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.	3.5	164
96	Cloning of two melanocortin (MC) receptors in spiny dogfish. FEBS Journal, 2004, 271, 4320-4331.	0.2	63
97	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.	0.3	98
98	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.	1.7	72
99	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
100	Functional Role, Structure, and Evolution of the Melanocortinâ€4 Receptor. Annals of the New York Academy of Sciences, 2003, 994, 74-83.	1.8	23
101	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.	1.6	42
102	Nucleotide sequence of a ssRNA phage from Acinetobacter: kinship to coliphages. Journal of General Virology, 2002, 83, 1523-1533.	1.3	58
103	A long-range pseudoknot in QÎ² RNA is essential for replication. Journal of Molecular Biology, 1999, 294, 875-884.	2.0	46
104	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.	1.6	66
105	Rescue of the RNA phage genome from RNase III cleavage. Nucleic Acids Research, 1997, 25, 4201-4208.	6.5	30
106	Rapid evolution of translational control mechanisms in RNA genomes. Journal of Molecular Biology, 1997, 265, 372-384.	2.0	36