Junguk Hur

List of Publications by Year
in descending order

108	4,730	136950	106344
papers	citations	32 h-index	65 g-index

114	114	114	8110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ER-stress-induced transcriptional regulation increases protein synthesis leading to cellÂdeath. Nature Cell Biology, 2013, 15, 481-490.	10.3	1,315
2	Stem cell technology for neurodegenerative diseases. Annals of Neurology, 2011, 70, 353-361.	5.3	219
3	Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. JCI Insight, 2016, 1, e86976.	5.0	188
4	Intraspinal neural stem cell transplantation in amyotrophic lateral sclerosis: Phase 1 trial outcomes. Annals of Neurology, 2014, 75, 363-373.	5.3	184
5	The identification of gene expression profiles associated with progression of human diabetic neuropathy. Brain, 2011, 134, 3222-3235.	7.6	132
6	Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. PLoS ONE, 2012, 7, e52672.	2.5	132
7	Diabetic neuropathy. Current Opinion in Neurology, 2012, 25, 536-541.	3.6	131
8	Oxidative stress and successful antioxidant treatment in models of RYR1-related myopathy. Brain, 2012, 135, 1115-1127.	7.6	114
9	Abnormal RNA stability in amyotrophic lateral sclerosis. Nature Communications, 2018, 9, 2845.	12.8	113
10	Transcriptional Profiling of Diabetic Neuropathy in the BKS db/db Mouse. Diabetes, 2011, 60, 1981-1989.	0.6	107
11	GLASS: a comprehensive database for experimentally validated GPCR-ligand associations. Bioinformatics, 2015, 31, 3035-3042.	4.1	92
12	SciMiner: web-based literature mining tool for target identification and functional enrichment analysis. Bioinformatics, 2009, 25, 838-840.	4.1	78
13	Expression of microRNAs in human post-mortem amyotrophic lateral sclerosis spinal cords provides insight into disease mechanisms. Molecular and Cellular Neurosciences, 2016, 71, 34-45.	2.2	76
14	CIDO, a community-based ontology for coronavirus disease knowledge and data integration, sharing, and analysis. Scientific Data, 2020, 7, 181.	5.3	70
15	BTBR ob/ob mice as a novel diabetic neuropathy model: Neurological characterization and gene expression analyses. Neurobiology of Disease, 2015, 73, 348-355.	4.4	68
16	Updates on the web-based VIOLIN vaccine database and analysis system. Nucleic Acids Research, 2014, 42, D1124-D1132.	14.5	66
17	A graph-theoretic modeling on GO space for biological interpretation of gene clusters. Bioinformatics, 2004, 20, 381-388.	4.1	65
18	Fluoxetine prevents dystrophic changes in a zebrafish model of Duchenne muscular dystrophy. Human Molecular Genetics, 2014, 23, 4651-4662.	2.9	55

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19	Untargeted metabolomics yields insight into ALS disease mechanisms. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 1329-1338.	1.9	51
20	Temporal evolution of the microbiome, immune system, and epigenome with disease progression in ALS mice. DMM Disease Models and Mechanisms, 2019, 13, .	2.4	50
21	The Metabolic Syndrome and Microvascular Complications in a Murine Model of Type 2 Diabetes. Diabetes, 2015, 64, 3294-3304.	0.6	49
22	Machine Learning-Based Predictive Modeling of Postpartum Depression. Journal of Clinical Medicine, 2020, 9, 2899.	2.4	48
23	Early Gestational Weight Gain Rate and Adverse Pregnancy Outcomes in Korean Women. PLoS ONE, 2015, 10, e0140376.	2.5	46
24	Comparative RNAâ€Seq transcriptome analyses reveal distinct metabolic pathways in diabetic nerve and kidney disease. Journal of Cellular and Molecular Medicine, 2017, 21, 2140-2152.	3.6	45
25	Central nervous system endoplasmic reticulum stress in a murine model of type 2 diabetes. Diabetologia, 2012, 55, 2276-2284.	6.3	43
26	Transcriptional networks of progressive diabetic peripheral neuropathy in the db/db mouse model of type 2 diabetes: An inflammatory story. Experimental Neurology, 2018, 305, 33-43.	4.1	42
27	Integrated lipidomic and transcriptomic analyses identify altered nerve triglycerides in mouse models of prediabetes and type 2 diabetes. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	42
28	Gender-specific differences in diabetic neuropathy in BTBR ob/ob mice. Journal of Diabetes and Its Complications, 2016, 30, 30-37.	2.3	40
29	Conserved Transcriptional Signatures in Human and Murine Diabetic Peripheral Neuropathy. Scientific Reports, 2018, 8, 17678.	3.3	40
30	The Role of Oxidative Stress in Nervous System Aging. PLoS ONE, 2013, 8, e68011.	2.5	39
31	Pre-Pregnancy Body Mass Index Is Associated with Dietary Inflammatory Index and C-Reactive Protein Concentrations during Pregnancy. Nutrients, 2017, 9, 351.	4.1	39
32	Toll-like receptors and inflammation in metabolic neuropathy; a role in early versus late disease?. Experimental Neurology, 2019, 320, 112967.	4.1	38
33	Ontology-based Brucella vaccine literature indexing and systematic analysis of gene-vaccine association network. BMC Immunology, 2011, 12, 49.	2.2	34
34	Transcriptional networks of murine diabetic peripheral neuropathy and nephropathy: common and distinct gene expression patterns. Diabetologia, 2016, 59, 1297-1306.	6.3	34
35	Genetic Architecture of Group A Streptococcal Necrotizing Soft Tissue Infections in the Mouse. PLoS Pathogens, 2016, 12, e1005732.	4.7	32
36	Identification of Factors Associated With Sural Nerve Regeneration and Degeneration in Diabetic Neuropathy. Diabetes Care, 2013, 36, 4043-4049.	8.6	31

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37	Integrated Systems Pharmacology Analysis of Clinical Drugâ€Induced Peripheral Neuropathy. CPT: Pharmacometrics and Systems Pharmacology, 2014, 3, 1-11.	2.5	31
38	Literature-based discovery of diabetes- and ROS-related targets. BMC Medical Genomics, 2010, 3, 49.	1.5	29
39	Interferon-Î³ promotes monocyte-mediated lung injury during influenza infection. Cell Reports, 2022, 38, 110456.	6.4	29
40	Acute Biophysical Responses and Psychological Effects of Different Types of Forests in Patients With Metabolic Syndrome. Environment and Behavior, 2018, 50, 298-323.	4.7	28
41	Pathway crosstalk perturbation network modeling for identification of connectivity changes induced by diabetic neuropathy and pioglitazone. BMC Systems Biology, 2019, 13, 1.	3.0	28
42	Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. Epigenetics, 2019, 14, 766-779.	2.7	28
43	Drug-Induced Rhabdomyolysis: From Systems Pharmacology Analysis to Biochemical Flux. Chemical Research in Toxicology, 2014, 27, 421-432.	3.3	27
44	Assessment of the DNA damaging potential of environmental chemicals using a quantitative highâ€throughput screening approach to measure p53 activation. Environmental and Molecular Mutagenesis, 2017, 58, 494-507.	2.2	27
45	Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining. Journal of Biomedical Semantics, 2012, 3, 18.	1.6	26
46	Genome-wide profiling of DNA methylation and gene expression identifies candidate genes for human diabetic neuropathy. Clinical Epigenetics, 2020, 12, 123.	4.1	26
47	Transcriptional changes and developmental abnormalities in a zebrafish model of myotonic dystrophy type 1. DMM Disease Models and Mechanisms, 2014, 7, 143-55.	2.4	25
48	Development and application of an interaction network ontology for literature mining of vaccine-associated gene-gene interactions. Journal of Biomedical Semantics, 2015, 6, 2.	1.6	23
49	Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. Journal of Biomedical Semantics, 2016, 7, 29.	1.6	22
50	Prediction of Gestational Diabetes Mellitus by Unconjugated Estriol Levels in Maternal Serum. International Journal of Medical Sciences, 2017, 14, 123-127.	2.5	20
51	Systems Pharmacological Analysis of Drugs Inducing Stevensâ€“Johnson Syndrome and Toxic Epidermal Necrolysis. Chemical Research in Toxicology, 2015, 28, 927-934.	3.3	18
52	Trends of self-reported sleep duration in Korean Adults: results from the Korea National Health and Nutrition Examination Survey 2007â€“2015. Sleep Medicine, 2018, 52, 103-106.	1.6	17
53	Cytoplasmic TDP43 Binds microRNAs: New Disease Targets in Amyotrophic Lateral Sclerosis. Frontiers in Cellular Neuroscience, 2020, 14, 117.	3.7	17
54	Extracellular Vesicles in Serum and Central Nervous System Tissues Contain microRNA Signatures in Sporadic Amyotrophic Lateral Sclerosis. Frontiers in Molecular Neuroscience, 2021, 14, 739016.	2.9	17

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55	Plasma Metabolomics and Lipidomics Differentiate Obese Individuals by Peripheral Neuropathy Status. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 1091-1109.	3.6	17
56	Association of Sleep Duration and Obesity According to Gender and Age in Korean Adults: Results from the Korea National Health and Nutrition Examination Survey 2007â€“2015. Journal of Korean Medical Science, 2018, 33, e345.	2.5	16
57	PubChemSR: A search and retrieval tool for PubChem. Chemistry Central Journal, 2008, 2, 11.	2.6	15
58	Prevalences and Management of Diabetes and Pre-diabetes among Korean Teenagers and Young Adults: Results from the Korea National Health and Nutrition Examination Survey 2005â€“2014. Journal of Korean Medical Science, 2017, 32, 1984.	2.5	14
59	Translational Systems Pharmacologyâ€Based Predictive Assessment of Drugâ€Induced Cardiomyopathy. CPT: Pharmacometrics and Systems Pharmacology, 2018, 7, 166-174.	2.5	14
60	Ontological modeling and analysis of experimentally or clinically verified drugs against coronavirus infection. Scientific Data, 2021, 8, 16.	5.3	14
61	Epigenetic Reprogramming Mediated by Maternal Diet Rich in Omega-3 Fatty Acids Protects From Breast Cancer Development in F1 Offspring. Frontiers in Cell and Developmental Biology, 2021, 9, 682593.	3.7	14
62	Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. Journal of Biomedical Semantics, 2017, 8, 12.	1.6	13
63	Exploration of the Anti-Inflammatory Drug Space Through Network Pharmacology: Applications for Drug Repurposing. Frontiers in Physiology, 2018, 9, 151.	2.8	13
64	Machine learning-based identification and rule-based normalization of adverse drug reactions in drug labels. BMC Bioinformatics, 2019, 20, 707.	2.6	13
65	Microbial and genetic-based framework identifies drug targets in inflammatory bowel disease. Theranostics, 2021, 11, 7491-7506.	10.0	13
66	Network-Based Assessment of Adverse Drug Reaction Risk in Polypharmacy Using High-Throughput Screening Data. International Journal of Molecular Sciences, 2019, 20, 386.	4.1	12
67	Twin weight discordance and maternal weight gain in twin pregnancies. International Journal of Gynecology and Obstetrics, 2007, 96, 176-180.	2.3	11
68	oprC Impairs Host Defense by Increasing the Quorum-Sensing-Mediated Virulence of Pseudomonas aeruginosa. Frontiers in Immunology, 2020, 11, 1696.	4.8	11
69	Identification of Casiopeina II-gly secondary targets through a systems pharmacology approach. Computational Biology and Chemistry, 2019, 78, 127-132.	2.3	10
70	Gene expression profiles of diabetic kidney disease and neuropathy in eNOS knockout mice: Predictors of pathology and RAS blockade effects. FASEB Journal, 2021, 35, e21467.	0.5	10
71	Literature Mining and Ontology based Analysis of Host-Brucella Geneâ€“Gene Interaction Network. Frontiers in Microbiology, 2015, 6, 1386.	3.5	9
72	Advances in omics for informed pharmaceutical research and development in the era of systems medicine. Expert Opinion on Drug Discovery, 2018, 13, 1-4.	5.0	8

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73	Anxiety-like behavior and intestinal microbiota changes as strain-and sex-dependent sequelae of mild food allergy in mouse models of cowâ€™s milk allergy. Brain, Behavior, and Immunity, 2021, 95, 122-141.	4.1	8
74	Alpha-Synuclein-induced DNA Methylation and Gene Expression in Microglia. Neuroscience, 2021, 468, 186-198.	2.3	8
75	The Interaction Network Ontology-supported modeling and mining of complex interactions represented with multiple keywords in biomedical literature. BioData Mining, 2016, 9, 41.	4.0	7
76	Tox21 Enricher: Webâ€based Chemical/Biological Functional Annotation Analysis Tool Based on Tox21 Toxicity Screening Platform. Molecular Informatics, 2018, 37, e1700129.	2.5	7
77	Ontology-based literature mining and class effect analysis of adverse drug reactions associated with neuropathy-inducing drugs. Journal of Biomedical Semantics, 2018, 9, 17.	1.6	7
78	Predicting Drug-Induced Liver Injury Using Machine Learning on a Diverse Set of Predictors. Frontiers in Pharmacology, 2021, 12, 648805.	3.5	6
79	Amelioration of Peripheral Neuropathy in Mouse Models of Diabetes by Dietary Reversal. Diabetes, 2018, 67, .	0.6	6
80	Atypical endometriosis is related to a higher recurrence rate. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2020, 254, 44-51.	1.1	5
81	RBMS1 Methylation and mRNA Expression Are Differentially Regulated in Placenta Tissue from Obese Women (P11-131-19). Current Developments in Nutrition, 2019, 3, nzz048.P11-131-19.	0.3	4
82	A Network Pharmacology Approach for the Identification of Common Mechanisms of Drugâ€Induced Peripheral Neuropathy. CPT: Pharmacometrics and Systems Pharmacology, 2019, 8, 211-219.	2.5	4
83	NOX, NOX, Are You Here? The Emerging Role of NOX5 in Diabetic Neuropathy. Diabetes, 2018, 67, 30-LB.	0.6	4
84	COVID-19 vaccine design using reverse and structural vaccinology, ontology-based literature mining and machine learning. Briefings in Bioinformatics, 2022, 23, .	6.5	4
85	Repurposable drugs for SARS-CoV-2 and influenza sepsis with scRNA-seq data targeting post-transcription modifications. Precision Clinical Medicine, 2021, 4, 215-230.	3.3	3
86	The impact of methodology on the reproducibility and rigor of DNA methylation data. Scientific Reports, 2022, 12, 380.	3.3	3
87	SMAP is a pipeline for sample matching in proteogenomics. Nature Communications, 2022, 13, 744.	12.8	3
88	Computational Approaches to Accelerating Novel Medicine and Better Patient Care from Bedside to Benchtop. Advances in Protein Chemistry and Structural Biology, 2016, 102, 147-179.	2.3	2
89	Predictability of Macrosomic Birth based on Maternal Factors and Fetal Aneuploidy Screening Biochemical Markers in Hyperglycemic Mothers. International Journal of Medical Sciences, 2021, 18, 2653-2660.	2.5	2
90	Modulation of Inflammatory Signaling Molecules in Bordetella pertussis Antigen-Challenged Human Monocytes in Presence of Adrenergic Agonists. Vaccines, 2022, 10, 321.	4.4	2

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91	A Computational Platform and Guide for Acceleration of Novel Medicines and Personalized Medicine. Methods in Molecular Biology, 2019, 1939, 181-198.	0.9	1
92	A 2018 workshop: vaccine and drug ontology studies (VDOS 2018). BMC Bioinformatics, 2019, 20, 705.	2.6	1
93	Maternal obesity and associated risk of adverse pregnancy outcomes in women with hyperglycemia. Korean Journal of Obstetrics & Gynecology, 2011, 54, 591.	0.1	1
94	Method of Microglial DNA-RNA Purification from a Single Brain of an Adult Mouse. Methods and Protocols, 2021, 4, 86.	2.0	1
95	HbA1c is associated with sural nerve regeneration and degeneration in diabetic neuropathy. Journal of the Neurological Sciences, 2013, 333, e697-e698.	0.6	0
96	Epigenetic miRNA dysregulation as a mechanism for sporadic amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 2013, 333, e698.	0.6	0
97	Predictive Modeling of Postpartum Depression Using Machine Learning Approaches (P18-130-19). Current Developments in Nutrition, 2019, 3, nzz039.P18-130-19.	0.3	0
98	NADPH oxidase 5: A new player in peripheral neuropathy. Journal of the Neurological Sciences, 2021, 429, 119359.	0.6	0
99	Pregnancy outcomes and relationship between maternal weight gain and fetal birth weight in Korean pregnant women at risk for gestational diabetes. Journal of Women S Medicine, 2011, 4, 35.	0.1	0
100	A systems pharmacology approach to model tyrosine kinase inhibitorâ€induced cardiotoxicity gene interaction networks (844.17). FASEB Journal, 2014, 28, 844.17.	0.5	0
101	Systems Approach to Assign Expression Based Signatures to Adrenergic Drugs. FASEB Journal, 2018, 32, 690.2.	0.5	0
102	Two-Way Orthogonal Partial Least Squares (O2PLS) Analysis of the Lipidome and Transcriptome in Prediabetic and Diabetic Neuropathy. Diabetes, 2018, 67, 548-P.	0.6	0
103	Large-Scale DNA Methylation Profiling of Human Diabetic Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus. Diabetes, 2018, 67, .	0.6	0
104	Postâ€transcriptional processing at the promoter proximal RNA polymerase II pausing. A possible mechanism for premature termination. FASEB Journal, 2019, 33, 458.13.	0.5	0
105	31-LB: Identification of Repurposable Drug Candidate for Diabetic Peripheral Neuropathy Using High-Throughput Drug-Perturbation Data. Diabetes, 2019, 68, .	0.6	0
106	2285-PUB: Hippocampal Transcriptomic Changes Due to High-Fat Diet in Prediabetic Mice. Diabetes, 2020, 69, 2285-PUB.	0.6	0
107	537-P: Dietary Reversal Improves Peripheral Neuropathy and Gut Microbiota Profile in a Murine Model of Prediabetes and Obesity. Diabetes, 2020, 69, .	0.6	0
108	Characterization of Prostanoids Response to Bordetella pertussis Antigen BscF and Tdap in LPS-challenged monocytes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2022, , 102452.	2.2	0