

# Junguk Hur

## List of Publications by Year in descending order

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Version: 2024-02-01

108  
papers

4,730  
citations

136885

32  
h-index

106281

65  
g-index

114  
all docs

114  
docs citations

114  
times ranked

8110  
citing authors

#	ARTICLE	IF	CITATIONS
1	ER-stress-induced transcriptional regulation increases protein synthesis leading to cell death. <i>Nature Cell Biology</i> , 2013, 15, 481-490.	4.6	1,315
2	Stem cell technology for neurodegenerative diseases. <i>Annals of Neurology</i> , 2011, 70, 353-361.	2.8	219
3	Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. <i>JCI Insight</i> , 2016, 1, e86976.	2.3	188
4	Intraspinal neural stem cell transplantation in amyotrophic lateral sclerosis: Phase 1 trial outcomes. <i>Annals of Neurology</i> , 2014, 75, 363-373.	2.8	184
5	The identification of gene expression profiles associated with progression of human diabetic neuropathy. <i>Brain</i> , 2011, 134, 3222-3235.	3.7	132
6	Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2012, 7, e52672.	1.1	132
7	Diabetic neuropathy. <i>Current Opinion in Neurology</i> , 2012, 25, 536-541.	1.8	131
8	Oxidative stress and successful antioxidant treatment in models of RYR1-related myopathy. <i>Brain</i> , 2012, 135, 1115-1127.	3.7	114
9	Abnormal RNA stability in amyotrophic lateral sclerosis. <i>Nature Communications</i> , 2018, 9, 2845.	5.8	113
10	Transcriptional Profiling of Diabetic Neuropathy in the BKS <i>db/db</i> Mouse. <i>Diabetes</i> , 2011, 60, 1981-1989.	0.3	107
11	GLASS: a comprehensive database for experimentally validated GPCR-ligand associations. <i>Bioinformatics</i> , 2015, 31, 3035-3042.	1.8	92
12	SciMiner: web-based literature mining tool for target identification and functional enrichment analysis. <i>Bioinformatics</i> , 2009, 25, 838-840.	1.8	78
13	Expression of microRNAs in human post-mortem amyotrophic lateral sclerosis spinal cords provides insight into disease mechanisms. <i>Molecular and Cellular Neurosciences</i> , 2016, 71, 34-45.	1.0	76
14	CIDO, a community-based ontology for coronavirus disease knowledge and data integration, sharing, and analysis. <i>Scientific Data</i> , 2020, 7, 181.	2.4	70
15	BTBR ob/ob mice as a novel diabetic neuropathy model: Neurological characterization and gene expression analyses. <i>Neurobiology of Disease</i> , 2015, 73, 348-355.	2.1	68
16	Updates on the web-based VIOLIN vaccine database and analysis system. <i>Nucleic Acids Research</i> , 2014, 42, D1124-D1132.	6.5	66
17	A graph-theoretic modeling on GO space for biological interpretation of gene clusters. <i>Bioinformatics</i> , 2004, 20, 381-388.	1.8	65
18	Fluoxetine prevents dystrophic changes in a zebrafish model of Duchenne muscular dystrophy. <i>Human Molecular Genetics</i> , 2014, 23, 4651-4662.	1.4	55

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19	Untargeted metabolomics yields insight into ALS disease mechanisms. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 1329-1338.	0.9	51
20	Temporal evolution of the microbiome, immune system, and epigenome with disease progression in ALS mice. <i>DMM Disease Models and Mechanisms</i> , 2019, 13, .	1.2	50
21	The Metabolic Syndrome and Microvascular Complications in a Murine Model of Type 2 Diabetes. <i>Diabetes</i> , 2015, 64, 3294-3304.	0.3	49
22	Machine Learning-Based Predictive Modeling of Postpartum Depression. <i>Journal of Clinical Medicine</i> , 2020, 9, 2899.	1.0	48
23	Early Gestational Weight Gain Rate and Adverse Pregnancy Outcomes in Korean Women. <i>PLoS ONE</i> , 2015, 10, e0140376.	1.1	46
24	Comparative RNA-Seq transcriptome analyses reveal distinct metabolic pathways in diabetic nerve and kidney disease. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2140-2152.	1.6	45
25	Central nervous system endoplasmic reticulum stress in a murine model of type 2 diabetes. <i>Diabetologia</i> , 2012, 55, 2276-2284.	2.9	43
26	Transcriptional networks of progressive diabetic peripheral neuropathy in the db/db mouse model of type 2 diabetes: An inflammatory story. <i>Experimental Neurology</i> , 2018, 305, 33-43.	2.0	42
27	Integrated lipidomic and transcriptomic analyses identify altered nerve triglycerides in mouse models of prediabetes and type 2 diabetes. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	1.2	42
28	Gender-specific differences in diabetic neuropathy in BTBR ob/ob mice. <i>Journal of Diabetes and Its Complications</i> , 2016, 30, 30-37.	1.2	40
29	Conserved Transcriptional Signatures in Human and Murine Diabetic Peripheral Neuropathy. <i>Scientific Reports</i> , 2018, 8, 17678.	1.6	40
30	The Role of Oxidative Stress in Nervous System Aging. <i>PLoS ONE</i> , 2013, 8, e68011.	1.1	39
31	Pre-Pregnancy Body Mass Index Is Associated with Dietary Inflammatory Index and C-Reactive Protein Concentrations during Pregnancy. <i>Nutrients</i> , 2017, 9, 351.	1.7	39
32	Toll-like receptors and inflammation in metabolic neuropathy; a role in early versus late disease?. <i>Experimental Neurology</i> , 2019, 320, 112967.	2.0	38
33	Ontology-based Brucella vaccine literature indexing and systematic analysis of gene-vaccine association network. <i>BMC Immunology</i> , 2011, 12, 49.	0.9	34
34	Transcriptional networks of murine diabetic peripheral neuropathy and nephropathy: common and distinct gene expression patterns. <i>Diabetologia</i> , 2016, 59, 1297-1306.	2.9	34
35	Genetic Architecture of Group A Streptococcal Necrotizing Soft Tissue Infections in the Mouse. <i>PLoS Pathogens</i> , 2016, 12, e1005732.	2.1	32
36	Identification of Factors Associated With Sural Nerve Regeneration and Degeneration in Diabetic Neuropathy. <i>Diabetes Care</i> , 2013, 36, 4043-4049.	4.3	31

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37	Integrated Systems Pharmacology Analysis of Clinical Drug-Induced Peripheral Neuropathy. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2014, 3, 1-11.	1.3	31
38	Literature-based discovery of diabetes- and ROS-related targets. <i>BMC Medical Genomics</i> , 2010, 3, 49.	0.7	29
39	Interferon- $\beta$ promotes monocyte-mediated lung injury during influenza infection. <i>Cell Reports</i> , 2022, 38, 110456.	2.9	29
40	Acute Biophysical Responses and Psychological Effects of Different Types of Forests in Patients With Metabolic Syndrome. <i>Environment and Behavior</i> , 2018, 50, 298-323.	2.1	28
41	Pathway crosstalk perturbation network modeling for identification of connectivity changes induced by diabetic neuropathy and pioglitazone. <i>BMC Systems Biology</i> , 2019, 13, 1.	3.0	28
42	Genome-wide DNA methylation profiling of human diabetic peripheral neuropathy in subjects with type 2 diabetes mellitus. <i>Epigenetics</i> , 2019, 14, 766-779.	1.3	28
43	Drug-Induced Rhabdomyolysis: From Systems Pharmacology Analysis to Biochemical Flux. <i>Chemical Research in Toxicology</i> , 2014, 27, 421-432.	1.7	27
44	Assessment of the DNA damaging potential of environmental chemicals using a quantitative high-throughput screening approach to measure p53 activation. <i>Environmental and Molecular Mutagenesis</i> , 2017, 58, 494-507.	0.9	27
45	Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining. <i>Journal of Biomedical Semantics</i> , 2012, 3, 18.	0.9	26
46	Genome-wide profiling of DNA methylation and gene expression identifies candidate genes for human diabetic neuropathy. <i>Clinical Epigenetics</i> , 2020, 12, 123.	1.8	26
47	Transcriptional changes and developmental abnormalities in a zebrafish model of myotonic dystrophy type 1. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 143-55.	1.2	25
48	Development and application of an interaction network ontology for literature mining of vaccine-associated gene-gene interactions. <i>Journal of Biomedical Semantics</i> , 2015, 6, 2.	0.9	23
49	Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. <i>Journal of Biomedical Semantics</i> , 2016, 7, 29.	0.9	22
50	Prediction of Gestational Diabetes Mellitus by Unconjugated Estriol Levels in Maternal Serum. <i>International Journal of Medical Sciences</i> , 2017, 14, 123-127.	1.1	20
51	Systems Pharmacological Analysis of Drugs Inducing Stevensâ€”Johnson Syndrome and Toxic Epidermal Necrolysis. <i>Chemical Research in Toxicology</i> , 2015, 28, 927-934.	1.7	18
52	Trends of self-reported sleep duration in Korean Adults: results from the Korea National Health and Nutrition Examination Survey 2007â€”2015. <i>Sleep Medicine</i> , 2018, 52, 103-106.	0.8	17
53	Cytoplasmic TDP43 Binds microRNAs: New Disease Targets in Amyotrophic Lateral Sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 117.	1.8	17
54	Extracellular Vesicles in Serum and Central Nervous System Tissues Contain microRNA Signatures in Sporadic Amyotrophic Lateral Sclerosis. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 739016.	1.4	17

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55	Plasma Metabolomics and Lipidomics Differentiate Obese Individuals by Peripheral Neuropathy Status. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 1091-1109.	1.8	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 2007-2015. <i>Journal of Korean Medical Science</i> , 2018, 33, e345.	1.1	16
57	PubChemSR: A search and retrieval tool for PubChem. <i>Chemistry Central Journal</i> , 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 2005-2014. <i>Journal of Korean Medical Science</i> , 2017, 32, 1984.	1.1	14
59	Translational Systems Pharmacology-Based Predictive Assessment of Drug-Induced Cardiomyopathy. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2018, 7, 166-174.	1.3	14
60	Ontological modeling and analysis of experimentally or clinically verified drugs against coronavirus infection. <i>Scientific Data</i> , 2021, 8, 16.	2.4	14
61	Epigenetic Reprogramming Mediated by Maternal Diet Rich in Omega-3 Fatty Acids Protects From Breast Cancer Development in F1 Offspring. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 682593.	1.8	14
62	Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. <i>Journal of Biomedical Semantics</i> , 2017, 8, 12.	0.9	13
63	Exploration of the Anti-Inflammatory Drug Space Through Network Pharmacology: Applications for Drug Repurposing. <i>Frontiers in Physiology</i> , 2018, 9, 151.	1.3	13
64	Machine learning-based identification and rule-based normalization of adverse drug reactions in drug labels. <i>BMC Bioinformatics</i> , 2019, 20, 707.	1.2	13
65	Microbial and genetic-based framework identifies drug targets in inflammatory bowel disease. <i>Theranostics</i> , 2021, 11, 7491-7506.	4.6	13
66	Network-Based Assessment of Adverse Drug Reaction Risk in Polypharmacy Using High-Throughput Screening Data. <i>International Journal of Molecular Sciences</i> , 2019, 20, 386.	1.8	12
67	Twin weight discordance and maternal weight gain in twin pregnancies. <i>International Journal of Gynecology and Obstetrics</i> , 2007, 96, 176-180.	1.0	11
68	oprC Impairs Host Defense by Increasing the Quorum-Sensing-Mediated Virulence of <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Immunology</i> , 2020, 11, 1696.	2.2	11
69	Identification of Casiopeina II-gly secondary targets through a systems pharmacology approach. <i>Computational Biology and Chemistry</i> , 2019, 78, 127-132.	1.1	10
70	Gene expression profiles of diabetic kidney disease and neuropathy in eNOS knockout mice: Predictors of pathology and RAS blockade effects. <i>FASEB Journal</i> , 2021, 35, e21467.	0.2	10
71	Literature Mining and Ontology based Analysis of Host-Brucella Gene-Gene Interaction Network. <i>Frontiers in Microbiology</i> , 2015, 6, 1386.	1.5	9
72	Advances in omics for informed pharmaceutical research and development in the era of systems medicine. <i>Expert Opinion on Drug Discovery</i> , 2018, 13, 1-4.	2.5	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 cow's milk allergy. <i>Brain, Behavior, and Immunity</i> , 2021, 95, 122-141.	2.0	8
74	Alpha-Synuclein-induced DNA Methylation and Gene Expression in Microglia. <i>Neuroscience</i> , 2021, 468, 186-198.	1.1	8
75	The Interaction Network Ontology-supported modeling and mining of complex interactions represented with multiple keywords in biomedical literature. <i>BioData Mining</i> , 2016, 9, 41.	2.2	7
76	Tox21 Enricher: Web-based Chemical/Biological Functional Annotation Analysis Tool Based on Tox21 Toxicity Screening Platform. <i>Molecular Informatics</i> , 2018, 37, e1700129.	1.4	7
77	Ontology-based literature mining and class effect analysis of adverse drug reactions associated with neuropathy-inducing drugs. <i>Journal of Biomedical Semantics</i> , 2018, 9, 17.	0.9	7
78	Predicting Drug-Induced Liver Injury Using Machine Learning on a Diverse Set of Predictors. <i>Frontiers in Pharmacology</i> , 2021, 12, 648805.	1.6	6
79	Amelioration of Peripheral Neuropathy in Mouse Models of Diabetes by Dietary Reversal. <i>Diabetes</i> , 2018, 67, .	0.3	6
80	Atypical endometriosis is related to a higher recurrence rate. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2020, 254, 44-51.	0.5	5
81	RBMS1 Methylation and mRNA Expression Are Differentially Regulated in Placenta Tissue from Obese Women (P11-131-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz048.P11-131-19.	0.1	4
82	A Network Pharmacology Approach for the Identification of Common Mechanisms of Drug-Induced Peripheral Neuropathy. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 211-219.	1.3	4
83	NOX, NOX, Are You Here? The Emerging Role of NOX5 in Diabetic Neuropathy. <i>Diabetes</i> , 2018, 67, 30-LB.	0.3	4
84	COVID-19 vaccine design using reverse and structural vaccinology, ontology-based literature mining and machine learning. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	4
85	Repurposable drugs for SARS-CoV-2 and influenza sepsis with scRNA-seq data targeting post-transcription modifications. <i>Precision Clinical Medicine</i> , 2021, 4, 215-230.	1.3	3
86	The impact of methodology on the reproducibility and rigor of DNA methylation data. <i>Scientific Reports</i> , 2022, 12, 380.	1.6	3
87	SMAP is a pipeline for sample matching in proteogenomics. <i>Nature Communications</i> , 2022, 13, 744.	5.8	3
88	Computational Approaches to Accelerating Novel Medicine and Better Patient Care from Bedside to Benchtop. <i>Advances in Protein Chemistry and Structural Biology</i> , 2016, 102, 147-179.	1.0	2
89	Predictability of Macrosomic Birth based on Maternal Factors and Fetal Aneuploidy Screening Biochemical Markers in Hyperglycemic Mothers. <i>International Journal of Medical Sciences</i> , 2021, 18, 2653-2660.	1.1	2
90	Modulation of Inflammatory Signaling Molecules in Bordetella pertussis Antigen-Challenged Human Monocytes in Presence of Adrenergic Agonists. <i>Vaccines</i> , 2022, 10, 321.	2.1	2

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91	A Computational Platform and Guide for Acceleration of Novel Medicines and Personalized Medicine. <i>Methods in Molecular Biology</i> , 2019, 1939, 181-198.	0.4	1
92	A 2018 workshop: vaccine and drug ontology studies (VDOS 2018). <i>BMC Bioinformatics</i> , 2019, 20, 705.	1.2	1
93	Maternal obesity and associated risk of adverse pregnancy outcomes in women with hyperglycemia. <i>Korean Journal of Obstetrics &amp; Gynecology</i> , 2011, 54, 591.	0.1	1
94	Method of Microglial DNA-RNA Purification from a Single Brain of an Adult Mouse. <i>Methods and Protocols</i> , 2021, 4, 86.	0.9	1
95	HbA1c is associated with sural nerve regeneration and degeneration in diabetic neuropathy. <i>Journal of the Neurological Sciences</i> , 2013, 333, e697-e698.	0.3	0
96	Epigenetic miRNA dysregulation as a mechanism for sporadic amyotrophic lateral sclerosis. <i>Journal of the Neurological Sciences</i> , 2013, 333, e698.	0.3	0
97	Predictive Modeling of Postpartum Depression Using Machine Learning Approaches (P18-130-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz039.P18-130-19.	0.1	0
98	NADPH oxidase 5: A new player in peripheral neuropathy. <i>Journal of the Neurological Sciences</i> , 2021, 429, 119359.	0.3	0
99	Pregnancy outcomes and relationship between maternal weight gain and fetal birth weight in Korean pregnant women at risk for gestational diabetes. <i>Journal of Women S Medicine</i> , 2011, 4, 35.	0.1	0
100	A systems pharmacology approach to model tyrosine kinase inhibitor-induced cardiotoxicity gene interaction networks (844.17). <i>FASEB Journal</i> , 2014, 28, 844.17.	0.2	0
101	Systems Approach to Assign Expression Based Signatures to Adrenergic Drugs. <i>FASEB Journal</i> , 2018, 32, 690.2.	0.2	0
102	Two-Way Orthogonal Partial Least Squares (O2PLS) Analysis of the Lipidome and Transcriptome in Prediabetic and Diabetic Neuropathy. <i>Diabetes</i> , 2018, 67, 548-P.	0.3	0
103	Large-Scale DNA Methylation Profiling of Human Diabetic Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus. <i>Diabetes</i> , 2018, 67, .	0.3	0
104	Post-transcriptional processing at the promoter proximal RNA polymerase II pausing. A possible mechanism for premature termination. <i>FASEB Journal</i> , 2019, 33, 458.13.	0.2	0
105	31-LB: Identification of Repurposable Drug Candidate for Diabetic Peripheral Neuropathy Using High-Throughput Drug-Perturbation Data. <i>Diabetes</i> , 2019, 68, .	0.3	0
106	2285-PUB: Hippocampal Transcriptomic Changes Due to High-Fat Diet in Prediabetic Mice. <i>Diabetes</i> , 2020, 69, 2285-PUB.	0.3	0
107	537-P: Dietary Reversal Improves Peripheral Neuropathy and Gut Microbiota Profile in a Murine Model of Prediabetes and Obesity. <i>Diabetes</i> , 2020, 69, .	0.3	0
108	Characterization of Prostanoids Response to Bordetella pertussis Antigen BscF and Tdap in LPS-challenged monocytes. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2022, , 102452.	1.0	0