# 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 | The impact of methodology on the reproducibility and rigor of DNA methylation data. Scientific Reports, 2022, 12, 380. | 3.3 | 3 |
| 2 | SMAP is a pipeline for sample matching in proteogenomics. Nature Communications, 2022, 13, 744. | 12.8 | 3 |
| 3 | Modulation of Inflammatory Signaling Molecules in Bordetella pertussis Antigen-Challenged Human Monocytes in Presence of Adrenergic Agonists. Vaccines, 2022, 10, 321. | 4.4 | 2 |
| 4 | Interferon-Î³ promotes monocyte-mediated lung injury during influenza infection. Cell Reports, 2022, 38, 110456. | 6.4 | 29 |
| 5 | Plasma Metabolomics and Lipidomics Differentiate Obese Individuals by Peripheral Neuropathy Status. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 1091-1109. | 3.6 | 17 |
| 6 | 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 |
| 7 | COVID-19 vaccine design using reverse and structural vaccinology, ontology-based literature mining and machine learning. Briefings in Bioinformatics, 2022, 23, . | 6.5 | 4 |
| 8 | Ontological modeling and analysis of experimentally or clinically verified drugs against coronavirus infection. Scientific Data, 2021, 8, 16. | 5.3 | 14 |
| 9 | 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 |
| 10 | Microbial and genetic-based framework identifies drug targets in inflammatory bowel disease. Theranostics, 2021, 11, 7491-7506. | 10.0 | 13 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Predicting Drug-Induced Liver Injury Using Machine Learning on a Diverse Set of Predictors. Frontiers in Pharmacology, 2021, 12, 648805. | 3.5 | 6 |
| 15 | Alpha-Synuclein-induced DNA Methylation and Gene Expression in Microglia. Neuroscience, 2021, 468, 186-198. | 2.3 | 8 |
| 16 | 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 |
| 17 | NADPH oxidase 5: A new player in peripheral neuropathy. Journal of the Neurological Sciences, 2021, 429, 119359. | 0.6 | 0 |
| 18 | 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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|---|---|---|---|
| 19 | Method of Microglial DNA-RNA Purification from a Single Brain of an Adult Mouse. Methods and Protocols, 2021, 4, 86. | 2.0 | 1 |
| 20 | 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 |
| 21 | oprC Impairs Host Defense by Increasing the Quorum-Sensing-Mediated Virulence of Pseudomonas aeruginosa. Frontiers in Immunology, 2020, 11, 1696. | 4.8 | 11 |
| 22 | Genome-wide profiling of DNA methylation and gene expression identifies candidate genes for human diabetic neuropathy. Clinical Epigenetics, 2020, 12, 123. | 4.1 | 26 |
| 23 | Atypical endometriosis is related to a higher recurrence rate. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2020, 254, 44-51. | 1.1 | 5 |
| 24 | Machine Learning-Based Predictive Modeling of Postpartum Depression. Journal of Clinical Medicine, 2020, 9, 2899. | 2.4 | 48 |
| 25 | Untargeted metabolomics yields insight into ALS disease mechanisms. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 1329-1338. | 1.9 | 51 |
| 26 | Cytoplasmic TDP43 Binds microRNAs: New Disease Targets in Amyotrophic Lateral Sclerosis. Frontiers in Cellular Neuroscience, 2020, 14, 117. | 3.7 | 17 |
| 27 | CIDO, a community-based ontology for coronavirus disease knowledge and data integration, sharing, and analysis. Scientific Data, 2020, 7, 181. | 5.3 | 70 |
| 28 | 2285-PUB: Hippocampal Transcriptomic Changes Due to High-Fat Diet in Prediabetic Mice. Diabetes, 2020, 69, 2285-PUB. | 0.6 | 0 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 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 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | A Computational Platform and Guide for Acceleration of Novel Medicines and Personalized Medicine. Methods in Molecular Biology, 2019, 1939, 181-198. | 0.9 | 1 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | A 2018 workshop: vaccine and drug ontology studies (VDOS 2018). BMC Bioinformatics, 2019, 20, 705. | 2.6 | 1 |
| 40 | Machine learning-based identification and rule-based normalization of adverse drug reactions in drug labels. BMC Bioinformatics, 2019, 20, 707. | 2.6 | 13 |
| 41 | Identification of Casiopeina II-gly secondary targets through a systems pharmacology approach. Computational Biology and Chemistry, 2019, 78, 127-132. | 2.3 | 10 |
| 42 | 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 |
| 43 | 31-LB: Identification of Repurposable Drug Candidate for Diabetic Peripheral Neuropathy Using High-Throughput Drug-Perturbation Data. Diabetes, 2019, 68, . | 0.6 | 0 |
| 44 | Tox21 Enricher: Webâ€based Chemical/Biological Functional Annotation Analysis Tool Based on Tox21 Toxicity Screening Platform. Molecular Informatics, 2018, 37, e1700129. | 2.5 | 7 |
| 45 | Translational Systems Pharmacologyâ€Based Predictive Assessment of Drugâ€Induced Cardiomyopathy. CPT: Pharmacometrics and Systems Pharmacology, 2018, 7, 166-174. | 2.5 | 14 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Conserved Transcriptional Signatures in Human and Murine Diabetic Peripheral Neuropathy. Scientific Reports, 2018, 8, 17678. | 3.3 | 40 |
| 51 | 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 |
| 52 | 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 |
| 53 | Exploration of the Anti-Inflammatory Drug Space Through Network Pharmacology: Applications for Drug Repurposing. Frontiers in Physiology, 2018, 9, 151. | 2.8 | 13 |
| 54 | Abnormal RNA stability in amyotrophic lateral sclerosis. Nature Communications, 2018, 9, 2845. | 12.8 | 113 |

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|---|---|---|---|
| 55 | NOX, NOX, Are You Here? The Emerging Role of NOX5 in Diabetic Neuropathy. Diabetes, 2018, 67, 30-LB. | 0.6 | 4 |
| 56 | Amelioration of Peripheral Neuropathy in Mouse Models of Diabetes by Dietary Reversal. Diabetes, 2018, 67, . | 0.6 | 6 |
| 57 | Systems Approach to Assign Expression Based Signatures to Adrenergic Drugs. FASEB Journal, 2018, 32, 690.2. | 0.5 | 0 |
| 58 | 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 |
| 59 | Large-Scale DNA Methylation Profiling of Human Diabetic Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus. Diabetes, 2018, 67, . | 0.6 | 0 |
| 60 | 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 |
| 61 | 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 |
| 62 | Ontology-based literature mining of E. coli vaccine-associated gene interaction networks. Journal of Biomedical Semantics, 2017, 8, 12. | 1.6 | 13 |
| 63 | 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 |
| 64 | 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 |
| 65 | Prediction of Gestational Diabetes Mellitus by Unconjugated Estriol Levels in Maternal Serum. International Journal of Medical Sciences, 2017, 14, 123-127. | 2.5 | 20 |
| 66 | Genetic Architecture of Group A Streptococcal Necrotizing Soft Tissue Infections in the Mouse. PLoS Pathogens, 2016, 12, e1005732. | 4.7 | 32 |
| 67 | 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 |
| 68 | Gender-specific differences in diabetic neuropathy in BTBR ob/ob mice. Journal of Diabetes and Its Complications, 2016, 30, 30-37. | 2.3 | 40 |
| 69 | Ontology-based collection, representation and analysis of drug-associated neuropathy adverse events. Journal of Biomedical Semantics, 2016, 7, 29. | 1.6 | 22 |
| 70 | 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 |
| 71 | Transcriptional networks of murine diabetic peripheral neuropathy and nephropathy: common and distinct gene expression patterns. Diabetologia, 2016, 59, 1297-1306. | 6.3 | 34 |
| 72 | 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 |

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|---|---|---|---|
| 73 | Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. JCI Insight, 2016, 1, e86976. | 5.0 | 188 |
| 74 | Literature Mining and Ontology based Analysis of Host-Brucella Geneâ€“Gene Interaction Network. Frontiers in Microbiology, 2015, 6, 1386. | 3.5 | 9 |
| 75 | GLASS: a comprehensive database for experimentally validated GPCR-ligand associations. Bioinformatics, 2015, 31, 3035-3042. | 4.1 | 92 |
| 76 | The Metabolic Syndrome and Microvascular Complications in a Murine Model of Type 2 Diabetes. Diabetes, 2015, 64, 3294-3304. | 0.6 | 49 |
| 77 | Systems Pharmacological Analysis of Drugs Inducing Stevensâ€“Johnson Syndrome and Toxic Epidermal Necrolysis. Chemical Research in Toxicology, 2015, 28, 927-934. | 3.3 | 18 |
| 78 | 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 |
| 79 | 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 |
| 80 | Early Gestational Weight Gain Rate and Adverse Pregnancy Outcomes in Korean Women. PLoS ONE, 2015, 10, e0140376. | 2.5 | 46 |
| 81 | 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 |
| 82 | Integrated Systems Pharmacology Analysis of Clinical Drugâ€Induced Peripheral Neuropathy. CPT: Pharmacometrics and Systems Pharmacology, 2014, 3, 1-11. | 2.5 | 31 |
| 83 | Updates on the web-based VIOLIN vaccine database and analysis system. Nucleic Acids Research, 2014, 42, D1124-D1132. | 14.5 | 66 |
| 84 | Intraspinal neural stem cell transplantation in amyotrophic lateral sclerosis: Phase 1 trial outcomes. Annals of Neurology, 2014, 75, 363-373. | 5.3 | 184 |
| 85 | Drug-Induced Rhabdomyolysis: From Systems Pharmacology Analysis to Biochemical Flux. Chemical Research in Toxicology, 2014, 27, 421-432. | 3.3 | 27 |
| 86 | Fluoxetine prevents dystrophic changes in a zebrafish model of Duchenne muscular dystrophy. Human Molecular Genetics, 2014, 23, 4651-4662. | 2.9 | 55 |
| 87 | 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 |
| 88 | Identification of Factors Associated With Sural Nerve Regeneration and Degeneration in Diabetic Neuropathy. Diabetes Care, 2013, 36, 4043-4049. | 8.6 | 31 |
| 89 | HbA1c is associated with sural nerve regeneration and degeneration in diabetic neuropathy. Journal of the Neurological Sciences, 2013, 333, e697-e698. | 0.6 | 0 |
| 90 | Epigenetic miRNA dysregulation as a mechanism for sporadic amyotrophic lateral sclerosis. Journal of the Neurological Sciences, 2013, 333, e698. | 0.6 | 0 |

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|---|---|---|---|
| 91 | ER-stress-induced transcriptional regulation increases protein synthesis leading to cellÂdeath. Nature Cell Biology, 2013, 15, 481-490. | 10.3 | 1,315 |
| 92 | The Role of Oxidative Stress in Nervous System Aging. PLoS ONE, 2013, 8, e68011. | 2.5 | 39 |
| 93 | Diabetic neuropathy. Current Opinion in Neurology, 2012, 25, 536-541. | 3.6 | 131 |
| 94 | Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining. Journal of Biomedical Semantics, 2012, 3, 18. | 1.6 | 26 |
| 95 | Identification of Epigenetically Altered Genes in Sporadic Amyotrophic Lateral Sclerosis. PLoS ONE, 2012, 7, e52672. | 2.5 | 132 |
| 96 | Oxidative stress and successful antioxidant treatment in models of RYR1-related myopathy. Brain, 2012, 135, 1115-1127. | 7.6 | 114 |
| 97 | Central nervous system endoplasmic reticulum stress in a murine model of type 2 diabetes. Diabetologia, 2012, 55, 2276-2284. | 6.3 | 43 |
| 98 | The identification of gene expression profiles associated with progression of human diabetic neuropathy. Brain, 2011, 134, 3222-3235. | 7.6 | 132 |
| 99 | Ontology-based Brucella vaccine literature indexing and systematic analysis of gene-vaccine association network. BMC Immunology, 2011, 12, 49. | 2.2 | 34 |
| 100 | Stem cell technology for neurodegenerative diseases. Annals of Neurology, 2011, 70, 353-361. | 5.3 | 219 |
| 101 | Transcriptional Profiling of Diabetic Neuropathy in the BKS db/db Mouse. Diabetes, 2011, 60, 1981-1989. | 0.6 | 107 |
| 102 | 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 |
| 103 | Maternal obesity and associated risk of adverse pregnancy outcomes in women with hyperglycemia. Korean Journal of Obstetrics & Gynecology, 2011, 54, 591. | 0.1 | 1 |
| 104 | Literature-based discovery of diabetes- and ROS-related targets. BMC Medical Genomics, 2010, 3, 49. | 1.5 | 29 |
| 105 | SciMiner: web-based literature mining tool for target identification and functional enrichment analysis. Bioinformatics, 2009, 25, 838-840. | 4.1 | 78 |
| 106 | PubChemSR: A search and retrieval tool for PubChem. Chemistry Central Journal, 2008, 2, 11. | 2.6 | 15 |
| 107 | Twin weight discordance and maternal weight gain in twin pregnancies. International Journal of Gynecology and Obstetrics, 2007, 96, 176-180. | 2.3 | 11 |
| 108 | A graph-theoretic modeling on GO space for biological interpretation of gene clusters. Bioinformatics, 2004, 20, 381-388. | 4.1 | 65 |