# Jeong Rae Kim

List of Publications by Year
in descending order



| 41 | 1,266 | 394421 | 361022 |
|---|---|---|---|
| papers | citations | 19 h-index | 35 g-index |

| 42 | 42 | 42 | 1879 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cooperative Activation of PI3K by Ras and Rho Family Small GTPases. Molecular Cell, 2012, 47, 281-290. | 9.7 | 146 |
| 2 | Coupled Feedback Loops Form Dynamic Motifs of Cellular Networks. Biophysical Journal, 2008, 94, 359-365. | 0.5 | 120 |
| 3 | Reverse engineering of gene regulatory networks. IET Systems Biology, 2007, 1, 149-163. | 1.5 | 100 |
| 4 | The biphasic behavior of incoherent feedâ€forward loops in biomolecular regulatory networks. BioEssays, 2008, 30, 1204-1211. | 2.5 | 93 |
| 5 | Coupled positive and negative feedback circuits form an essential building block of cellular signaling pathways. BioEssays, 2007, 29, 85-90. | 2.5 | 72 |
| 6 | The multi-step phosphorelay mechanism of unorthodox two-component systems in E. coli realizes ultrasensitivity to stimuli while maintaining robustness to noises. Computational Biology and Chemistry, 2006, 30, 438-444. | 2.3 | 65 |
| 7 | Heterozygous mutations in cyclic AMP phosphodiesterase-4D (PDE4D) and protein kinase A (PKA) provide new insights into the molecular pathology of acrodysostosis. Cellular Signalling, 2014, 26, 2446-2459. | 3.6 | 56 |
| 8 | Deubiquitinase YOD1 potentiates YAP/TAZ activities through enhancing ITCH stability. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4691-4696. | 7.1 | 56 |
| 9 | A design principle underlying the synchronization of oscillations in cellular systems. Journal of Cell Science, 2010, 123, 537-543. | 2.0 | 55 |
| 10 | Reduction of Complex Signaling Networks to a Representative Kernel. Science Signaling, 2011, 4, ra35. | 3.6 | 54 |
| 11 | Hub genes with positive feedbacks function as master switches in developmental gene regulatory networks. Bioinformatics, 2009, 25, 1898-1904. | 4.1 | 48 |
| 12 | A hidden incoherent switch regulates RCAN1 in the calcineurinâ€“NFAT signaling network. Journal of Cell Science, 2011, 124, 82-90. | 2.0 | 45 |
| 13 | Switching feedback mechanisms realize the dual role of MCIP in the regulation of calcineurin activity. FEBS Letters, 2006, 580, 5965-5973. | 2.8 | 34 |
| 14 | Biphasic RLRâ€“IFN-Î² Response Controls the Balance between Antiviral Immunity and Cell Damage. Journal of Immunology, 2013, 190, 1192-1200. | 0.8 | 27 |
| 15 | The co-regulation mechanism of transcription factors in the human gene regulatory network. Nucleic Acids Research, 2012, 40, 8849-8861. | 14.5 | 26 |
| 16 | The reverse control of irreversible biological processes. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 366-377. | 6.6 | 26 |
| 17 | Robustness and Evolvability of the Human Signaling Network. PLoS Computational Biology, 2014, 10, e1003763. | 3.2 | 23 |
| 18 | Network Inference Analysis Identifies SETDB1 as a Key Regulator for Reverting Colorectal Cancer Cells into Differentiated Normal-Like Cells. Molecular Cancer Research, 2020, 18, 118-129. | 3.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Red Chinese Cabbage Transcriptome Analysis Reveals Structural Genes and Multiple Transcription Factors Regulating Reddish Purple Color. International Journal of Molecular Sciences, 2020, 21, 2901. | 4.1 | 21 |
| 20 | Multiple roles of the NFâ€?B signaling pathway regulated by coupled negative feedback circuits. FASEB Journal, 2009, 23, 2796-2802. | 0.5 | 20 |
| 21 | Spatiotemporal network motif reveals the biological traits of developmental gene regulatory networks in Drosophila melanogaster. BMC Systems Biology, 2012, 6, 31. | 3.0 | 20 |
| 22 | The core regulation module of stress-responsive regulatory networks in yeast. Nucleic Acids Research, 2012, 40, 8793-8802. | 14.5 | 18 |
| 23 | Dynamic network rewiring determines temporal regulatory functions in Drosophilamelanogaster development processes. BioEssays, 2010, 32, 505-513. | 2.5 | 16 |
| 24 | Evolutionary design principles of modules that control cellular differentiation: consequences for hysteresis and multistationarity. Bioinformatics, 2008, 24, 1516-1522. | 4.1 | 13 |
| 25 | Pja2 Inhibits Wnt/Î²-catenin Signaling by Reducing the Level of TCF/LEF1. International Journal of Stem Cells, 2018, 11, 242-247. | 1.8 | 12 |
| 26 | Inferring biomolecular regulatory networks from phase portraits of time-series expression profiles. FEBS Letters, 2006, 580, 3511-3518. | 2.8 | 10 |
| 27 | A system-level investigation into the cellular toxic response mechanism mediated by AhR signal transduction pathway. Bioinformatics, 2010, 26, 2169-2175. | 4.1 | 10 |
| 28 | Stage-Dependent Gene Expression Profiling in Colorectal Cancer. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1685-1692. | 3.0 | 7 |
| 29 | Topological Difference of Core Regulatory Networks Induces Different Entrainment Characteristics of Plant and Animal Circadian Clocks. Biophysical Journal, 2007, 93, L01-L03. | 0.5 | 6 |
| 30 | Why have serine/threonine/tyrosine kinases been evolutionarily selected in eukaryotic signaling cascades?. Computational Biology and Chemistry, 2008, 32, 218-221. | 2.3 | 6 |
| 31 | The regulatory circuits for hysteretic switching in cellular signal transduction pathways. FEBS Journal, 2012, 279, 3329-3337. | 4.7 | 6 |
| 32 | Integrative systems analysis of diet-induced obesity identified a critical transition in the transcriptomes of the murine liver and epididymal white adipose tissue. International Journal of Obesity, 2016, 40, 338-345. | 3.4 | 6 |
| 33 | Comprehensive analysis of CCCH zinc-finger-type transcription factors in the Brassica rapa genome. Horticulture Environment and Biotechnology, 2018, 59, 729-747. | 2.1 | 6 |
| 34 | Analyses of the TCR repertoire of MHC class II-restricted innate CD4+ T cells. Experimental and Molecular Medicine, 2015, 47, e154-e154. | 7.7 | 5 |
| 35 | The core regulatory network in human cells. Biochemical and Biophysical Research Communications, 2017, 484, 348-353. | 2.1 | 4 |
| 36 | Identification and characterization of the leaf specific networks of inner and rosette leaves in Brassica rapa. Biochemical and Biophysical Research Communications, 2017, 490, 821-826. | 2.1 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | An IBNRâ€“RBNS insurance risk model with marked Poisson arrivals. Insurance: Mathematics and Economics, 2018, 79, 26-42. | 1.2 | 3 |
| 38 | Identification of Gene Networks with Time Delayed Regulation Based on Temporal Expression Profiles. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 1161-1168. | 3.0 | 2 |
| 39 | Dynamics of the gene regulatory networks of the inner and rosette leaves in Brassica rapa. Horticulture Environment and Biotechnology, 2020, 61, 317-326. | 2.1 | 1 |
| 40 | Characterization of the Alzheimer's disease-related network based on the dynamic network approach. Journal of Korean Institute of Intelligent Systems, 2015, 25, 529-535. | 0.1 | 1 |
| 41 | Cover Image, Volume 8, Issue 5. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, i-i. | 6.6 | 0 |