

Shigeto Seno

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

6,156
citations

471509

17
h-index

214800

47
g-index

62
all docs

62
docs citations

62
times ranked

10699
citing authors

#	ARTICLE	IF	CITATIONS
1	The Transcriptional Landscape of the Mammalian Genome. <i>Science</i> , 2005, 309, 1559-1563.	12.6	3,227
2	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 2199.	7.4	2,003
3	Direct cell-cell contact between mature osteoblasts and osteoclasts dynamically controls their functions in vivo. <i>Nature Communications</i> , 2018, 9, 300.	12.8	128
4	Proinflammatory cytokine interleukin-1 β suppresses cold-induced thermogenesis in adipocytes. <i>Cytokine</i> , 2016, 77, 107-114.	3.2	88
5	Correlation between genome reduction and bacterial growth. <i>DNA Research</i> , 2016, 23, 517-525.	3.4	72
6	Gene Expression Profile Prospectively Predicts Peritoneal Relapse After Curative Surgery of Gastric Cancer. <i>Annals of Surgical Oncology</i> , 2010, 17, 1033-1042.	1.5	69
7	The hepatokine FGF21 is crucial for peroxisome proliferator-activated receptor- α agonist-induced amelioration of metabolic disorders in obese mice. <i>Journal of Biological Chemistry</i> , 2017, 292, 9175-9190.	3.4	48
8	<i>In Vivo</i> Multicolor Imaging with Fluorescent Probes Revealed the Dynamics and Function of Osteoclast Proton Pumps. <i>ACS Central Science</i> , 2019, 5, 1059-1066.	11.3	41
9	In vivo dynamic analysis of BMP-2-induced ectopic bone formation. <i>Scientific Reports</i> , 2020, 10, 4751.	3.3	41
10	Relayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. <i>Cell Stem Cell</i> , 2022, 29, 265-280.e6.	11.1	36
11	Multilevel comparative analysis of the contributions of genome reduction and heat shock to the <i>Escherichia coli</i> transcriptome. <i>BMC Genomics</i> , 2013, 14, 25.	2.8	31
12	SLPI is a critical mediator that controls PTH-induced bone formation. <i>Nature Communications</i> , 2021, 12, 2136.	12.8	28
13	Anti-inflammatory and Antioxidative Properties of Isoflavones Provide Renal Protective Effects Distinct from Those of Dietary Soy Proteins against Diabetic Nephropathy. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000015.	3.3	21
14	INFERENCE OF S-SYSTEM MODELS OF GENE REGULATORY NETWORKS USING IMMUNE ALGORITHM. <i>Journal of Bioinformatics and Computational Biology</i> , 2011, 09, 75-86.	0.8	20
15	A Phytol-enriched Diet Activates PPAR α in the Liver and Brown Adipose Tissue to Ameliorate Obesity-induced Metabolic Abnormalities. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1700688.	3.3	20
16	Directed evolution of cell size in <i>Escherichia coli</i> . <i>BMC Evolutionary Biology</i> , 2014, 14, 257.	3.2	19
17	Gene expression scaled by distance to the genome replication site. <i>Molecular BioSystems</i> , 2014, 10, 375-379.	2.9	18
18	Over-expression of PPAR α in obese mice adipose tissue improves insulin sensitivity. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 108-114.	2.1	18

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19	Evolutionary Consequence of a Trade-Off between Growth and Maintenance along with Ribosomal Damages. PLoS ONE, 2015, 10, e0135639.	2.5	17
20	Roles of Enhancer RNAs in RANKL-induced Osteoclast Differentiation Identified by Genome-wide Cap-analysis of Gene Expression using CRISPR/Cas9. Scientific Reports, 2018, 8, 7504.	3.3	15
21	Food-Derived Compounds Apigenin and Luteolin Modulate mRNA Splicing of Introns with Weak Splice Sites. IScience, 2019, 22, 336-352.	4.1	15
22	Glycerol kinase stimulates uncoupling protein 1 expression by regulating fatty acid metabolism in beige adipocytes. Journal of Biological Chemistry, 2020, 295, 7033-7045.	3.4	15
23	The dipeptidyl peptidase-4 (DPP-4) inhibitor teneligliptin enhances brown adipose tissue function, thereby preventing obesity in mice. FEBS Open Bio, 2018, 8, 1782-1793.	2.3	13
24	Development of an intravital imaging system for the synovial tissue reveals the dynamics of CTLA-4 Ig in vivo. Scientific Reports, 2020, 10, 13480.	3.3	13
25	Osteoclasts adapt to physioxia perturbation through DNA demethylation. EMBO Reports, 2021, 22, e53035.	4.5	13
26	Chromatin 3D Reconstruction from Chromosomal Contacts Using a Genetic Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1620-1626.	3.0	12
27	An estimation method for inference of gene regulatory net-work using Bayesian network with uniting of partial problems. BMC Genomics, 2012, 13, S12.	2.8	11
28	Functional specialization in regulation and quality control in thermal adaptive evolution. Genes To Cells, 2015, 20, 943-955.	1.2	9
29	Long non-coding RNA 2310069B03Rik functions as a suppressor of Ucp1 expression under prolonged cold exposure in murine beige adipocytes. Bioscience, Biotechnology and Biochemistry, 2020, 84, 305-313.	1.3	9
30	Correlated chromosomal periodicities according to the growth rate and gene expression. Scientific Reports, 2020, 10, 15531.	3.3	7
31	URH49 exports mRNA by remodeling complex formation and mediating the NXF1-dependent pathway. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2020, 1863, 194480.	1.9	7
32	An estimation method for a cellular-state-specific gene regulatory network along tree-structured gene expression profiles. Gene, 2013, 518, 17-25.	2.2	6
33	Migration arrest of chemoresistant leukemia cells mediated by MRTF-SRF pathway. Inflammation and Regeneration, 2020, 40, 15.	3.7	6
34	SC-JNMF: single-cell clustering integrating multiple quantification methods based on joint non-negative matrix factorization. PeerJ, 2021, 9, e12087.	2.0	6
35	Perfect Hamming code with a hash table for faster genome mapping. BMC Genomics, 2011, 12, S8.	2.8	5
36	Determining homologous recombination deficiency scores with whole exome sequencing and their association with responses to neoadjuvant chemotherapy in breast cancer. Translational Oncology, 2021, 14, 100986.	3.7	5

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37	Dlk1 regulates quiescence in calcitonin receptor-mutant muscle stem cells. <i>Stem Cells</i> , 2021, 39, 306-317.	3.2	5
38	A Method for Similarity Search of Genomic Positional Expression Using CAGE. <i>PLoS Genetics</i> , 2006, 2, e44.	3.5	4
39	A simple comparison of the extrinsic noise in gene expression between native and foreign regulations in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 852-857.	2.1	4
40	Bone marrow cavity segmentation using graph-cuts with wavelet-based texture feature. <i>Journal of Bioinformatics and Computational Biology</i> , 2017, 15, 1740004.	0.8	4
41	A method for clustering gene expression data based on graph structure. <i>Genome Informatics</i> , 2004, 15, 151-60.	0.4	4
42	Exploration of Potential Genomic Portraits Associated with Intrahepatic Recurrence in Human Hepatocellular Carcinoma. <i>Annals of Surgical Oncology</i> , 2010, 17, 3145-3154.	1.5	3
43	Detecting shifts in gene regulatory networks during time-course experiments at single-time-point temporal resolution. <i>Journal of Bioinformatics and Computational Biology</i> , 2015, 13, 1543002.	0.8	3
44	Analyzing Leukocyte Migration Trajectories by Deformable Image Matching. , 2019, , .		3
45	Thrombomodulin induces anti-inflammatory effects by inhibiting the rolling adhesion of leukocytes inÂvivo. <i>Journal of Pharmacological Sciences</i> , 2020, 143, 17-22.	2.5	3
46	Comparative Analysis of Transformation Methods for Gene Expression Profiles in Breast Cancer Datasets. , 2016, , .		2
47	Single-cell Transcriptome Analysis of Mouse Leukocytes in Inflammatory Stimulation. , 2019, , .		2
48	Metagenome fragment classification based on multiple motif-occurrence profiles. <i>PeerJ</i> , 2014, 2, e559.	2.0	2
49	A Combination Method of the Tanimoto Coefficient and Proximity Measure of Random Forest for Compound Activity Prediction. <i>IPSJ Digital Courier</i> , 2008, 4, 238-249.	0.3	1
50	Improved Prediction Method for Protein Interactions Using Both Structural and Functional Characteristics of Proteins. <i>IPSJ Transactions on Bioinformatics</i> , 2010, 3, 10-23.	0.2	1
51	Asymmetric Integration of Single-Cell Transcriptomic Data using Latent Dirichlet Allocation and Procrustes Analysis. , 2018, , .		1
52	Improvement of detection performance of fusion genes from RNA-seq data by clustering short reads. <i>Journal of Bioinformatics and Computational Biology</i> , 2019, 17, 1940008.	0.8	1
53	A CNN-based cell tracking method for multi-slice intravital imaging data. , 2021, , .		1
54	Retrieving Functionally Similar Bioinformatics Workflows Using TF-IDF Filtering. <i>IPSJ Digital Courier</i> , 2007, 3, 164-173.	0.3	0

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55	A Distributed-Processing System for Accelerating Biological Research Using Data-Staging. IPSJ Digital Courier, 2008, 4, 250-256.	0.3	0
56	A Method for Isoform Prediction from RNA-Seq Data by Iterative Mapping. IPSJ Transactions on Bioinformatics, 2012, 5, 27-33.	0.2	0
57	A bone marrow cavity segmentation method using wavelet-based texture feature. , 2016, , .		0
58	Detection of Fusion Genes from Human Breast Cancer Cell-Line RNA-Seq Data Using Shifted Short Read Clustering. , 2018, , .		0
59	Automated transition analysis of activated gene regulation during diauxic nutrient shift in Escherichia coli and adipocyte differentiation in mouse cells. BMC Bioinformatics, 2018, 19, 89.	2.6	0