

Shujiro Okuda

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

20,419
citations

94433

37
h-index

25787

108
g-index

118
all docs

118
docs citations

118
times ranked

34935
citing authors

#	ARTICLE	IF	CITATIONS
1	KEGG for linking genomes to life and the environment. <i>Nucleic Acids Research</i> , 2007, 36, D480-D484.	14.5	5,451
2	A metagenome-wide association study of gut microbiota in type 2 diabetes. <i>Nature</i> , 2012, 490, 55-60.	27.8	5,345
3	KAAS: an automatic genome annotation and pathway reconstruction server. <i>Nucleic Acids Research</i> , 2007, 35, W182-W185.	14.5	3,517
4	The ProteomeXchange consortium in 2017: supporting the cultural change in proteomics public data deposition. <i>Nucleic Acids Research</i> , 2017, 45, D1100-D1106.	14.5	860
5	The ProteomeXchange consortium in 2020: enabling "big data"™ approaches in proteomics. <i>Nucleic Acids Research</i> , 2020, 48, D1145-D1152.	14.5	491
6	jPOSTrepo: an international standard data repository for proteomes. <i>Nucleic Acids Research</i> , 2017, 45, D1107-D1111.	14.5	451
7	KEGG Atlas mapping for global analysis of metabolic pathways. <i>Nucleic Acids Research</i> , 2008, 36, W423-W426.	14.5	445
8	iPath2.0: interactive pathway explorer. <i>Nucleic Acids Research</i> , 2011, 39, W412-W415.	14.5	322
9	Species-function relationships shape ecological properties of the human gut microbiome. <i>Nature Microbiology</i> , 2016, 1, 16088.	13.3	279
10	p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. <i>Nature Communications</i> , 2016, 7, 12030.	12.8	253
11	The repertoire of desaturases and elongases reveals fatty acid variations in 56 eukaryotic genomes. <i>Journal of Lipid Research</i> , 2008, 49, 183-191.	4.2	150
12	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019, 10, 1567.	12.8	143
13	p62/SQSTM1-droplet serves as a platform for autophagosome formation and anti-oxidative stress response. <i>Nature Communications</i> , 2021, 12, 16.	12.8	137
14	Sharing of human milk oligosaccharides degradants within bifidobacterial communities in faecal cultures supplemented with <i>Bifidobacterium bifidum</i> . <i>Scientific Reports</i> , 2018, 8, 13958.	3.3	121
15	Next generation sequencing-based gene panel tests for the management of solid tumors. <i>Cancer Science</i> , 2019, 110, 6-15.	3.9	107
16	Molecular Insight into Evolution of Symbiosis between Breast-Fed Infants and a Member of the Human Gut Microbiome <i>Bifidobacterium longum</i> . <i>Cell Chemical Biology</i> , 2017, 24, 515-524.e5.	5.2	102
17	KEGG OC: a large-scale automatic construction of taxonomy-based ortholog clusters. <i>Nucleic Acids Research</i> , 2012, 41, D353-D357.	14.5	96
18	The jPOST environment: an integrated proteomics data repository and database. <i>Nucleic Acids Research</i> , 2019, 47, D1218-D1224.	14.5	94

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19	Senolytic vaccination improves normal and pathological age-related phenotypes and increases lifespan in progeroid mice. <i>Nature Aging</i> , 2021, 1, 1117-1126.	11.6	87
20	GlyYouCan 1.0 – The international glycan structure repository. <i>Nucleic Acids Research</i> , 2016, 44, D1237-D1242.	14.5	83
21	GlycoPOST realizes FAIR principles for glycomics mass spectrometry data. <i>Nucleic Acids Research</i> , 2021, 49, D1523-D1528.	14.5	78
22	The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. <i>Nature Methods</i> , 2020, 17, 649-650.	19.0	71
23	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019, 10, 3275.	12.8	70
24	Genomic landscape of colorectal cancer in Japan: clinical implications of comprehensive genomic sequencing for precision medicine. <i>Genome Medicine</i> , 2016, 8, 136.	8.2	64
25	Actionable gene-based classification toward precision medicine in gastric cancer. <i>Genome Medicine</i> , 2017, 9, 93.	8.2	59
26	Three-dimensional understanding of the morphological complexity of the human uterine endometrium. <i>IScience</i> , 2021, 24, 102258.	4.1	59
27	Common driver mutations and smoking history affect tumor mutation burden in lung adenocarcinoma. <i>Journal of Surgical Research</i> , 2018, 230, 181-185.	1.6	55
28	Characterization of relationships between transcriptional units and operon structures in <i>Bacillus subtilis</i> and <i>Escherichia coli</i> . <i>BMC Genomics</i> , 2007, 8, 48.	2.8	51
29	GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015, 31, 919-925.	4.1	51
30	Use of Gifu Anaerobic Medium for culturing 32 dominant species of human gut microbes and its evaluation based on short-chain fatty acids fermentation profiles. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2009-2017.	1.3	50
31	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. <i>Journal of Biomedical Semantics</i> , 2014, 5, 5.	1.6	47
32	ODB: a database of operons accumulating known operons across multiple genomes. <i>Nucleic Acids Research</i> , 2006, 34, D358-D362.	14.5	46
33	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	1.6	46
34	Extracting Sequence Motifs and the Phylogenetic Features of SNARE-Dependent Membrane Traffic. <i>Traffic</i> , 2006, 7, 1104-1118.	2.7	44
35	Growth Cone Phosphoproteomics Reveals that GAP-43 Phosphorylated by JNK Is a Marker of Axon Growth and Regeneration. <i>IScience</i> , 2018, 4, 190-203.	4.1	44
36	An adenylyl cyclase with a phosphodiesterase domain in basal plants with a motile sperm system. <i>Scientific Reports</i> , 2016, 6, 39232.	3.3	42

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37	Novel therapeutic strategy for cervical cancer harboring FGFR3-TACC3 fusions. <i>Oncogenesis</i> , 2018, 7, 4.	4.9	41
38	Mutations in <i>SDR9C7</i> gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis. <i>Human Molecular Genetics</i> , 2016, 25, ddw277.	2.9	40
39	ODB: a database for operon organizations, 2011 update. <i>Nucleic Acids Research</i> , 2011, 39, D552-D555.	14.5	38
40	Comprehensive analysis of glycosyltransferases in eukaryotic genomes for structural and functional characterization of glycans. <i>Carbohydrate Research</i> , 2009, 344, 881-887.	2.3	37
41	Comprehensive analysis of polyamine transport and biosynthesis in the dominant human gut bacteria: Potential presence of novel polyamine metabolism and transport genes. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 93, 52-61.	2.8	37
42	<i>SMAD4</i> alteration associates with invasive front pathological markers and poor prognosis in colorectal cancer. <i>Histopathology</i> , 2019, 74, 873-882.	2.9	37
43	RNA Sequencing Revealed Numerous Polyketide Synthase Genes in the Harmful Dinoflagellate <i>Karenia mikimotoi</i> . <i>PLoS ONE</i> , 2015, 10, e0142731.	2.5	37
44	Utility of comprehensive genomic sequencing for detecting HER2-positive colorectal cancer. <i>Human Pathology</i> , 2017, 66, 1-9.	2.0	31
45	Novel <i>MXD4-NUTM1</i> fusion transcript identified in primary ovarian undifferentiated small round cell sarcoma. <i>Genes Chromosomes and Cancer</i> , 2018, 57, 557-563.	2.8	28
46	Comprehensive genomic sequencing detects important genetic differences between right-sided and left-sided colorectal cancer. <i>Oncotarget</i> , 2017, 8, 93567-93579.	1.8	26
47	<i>XCL1</i> expression correlates with CD8-positive T cells infiltration and PD-L1 expression in squamous cell carcinoma arising from mature cystic teratoma of the ovary. <i>Oncogene</i> , 2020, 39, 3541-3554.	5.9	26
48	Virtual metagenome reconstruction from 16S rRNA gene sequences. <i>Nature Communications</i> , 2012, 3, 1203.	12.8	24
49	Glycoprotein nonmetastatic melanoma protein B regulates lysosomal integrity and lifespan of senescent cells. <i>Scientific Reports</i> , 2022, 12, 6522.	3.3	24
50	Clinical and Genetic Implications of Mutation Burden in Squamous Cell Carcinoma of the Lung. <i>Annals of Surgical Oncology</i> , 2018, 25, 1564-1571.	1.5	23
51	Histopathological characteristics and artificial intelligence for predicting tumor mutational burden-high colorectal cancer. <i>Journal of Gastroenterology</i> , 2021, 56, 547-559.	5.1	23
52	Impact of Concurrent Genomic Alterations Detected by Comprehensive Genomic Sequencing on Clinical Outcomes in East-Asian Patients with EGFR-Mutated Lung Adenocarcinoma. <i>Scientific Reports</i> , 2018, 8, 1005.	3.3	22
53	IMSindel: An accurate intermediate-size indel detection tool incorporating de novo assembly and gapped global-local alignment with split read analysis. <i>Scientific Reports</i> , 2018, 8, 5608.	3.3	20
54	The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. <i>Journal of Biomedical Semantics</i> , 2011, 2, 4.	1.6	19

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55	Clinical Significance of BRAF Non-V600E Mutations in Colorectal Cancer: A Retrospective Study of Two Institutions. <i>Journal of Surgical Research</i> , 2018, 232, 72-81.	1.6	19
56	Rice Endosperm Protein Administration to Juvenile Mice Regulates Gut Microbiota and Suppresses the Development of High-Fat Diet-Induced Obesity and Related Disorders in Adulthood. <i>Nutrients</i> , 2019, 11, 2919.	4.1	19
57	Electrophoretic Mobility of <i>Bacillus subtilis</i> Knockout Mutants with and without Flagella. <i>Journal of Bacteriology</i> , 2003, 185, 3711-3717.	2.2	17
58	Identification of Enzyme Genes Using Chemical Structure Alignments of Substrate-Product Pairs. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 510-516.	5.4	17
59	Inhibition of dipeptidyl peptidase-4 ameliorates cardiac ischemia and systolic dysfunction by up-regulating the FGF-2/EGR-1 pathway. <i>PLoS ONE</i> , 2017, 12, e0182422.	2.5	17
60	Direct Observation and Analysis of Bacterial Growth on an Antimicrobial Surface. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5409-5414.	3.1	16
61	Open Agile text mining for bioinformatics: the PubAnnotation ecosystem. <i>Bioinformatics</i> , 2019, 35, 4372-4380.	4.1	16
62	BRAF V600E and SRC mutations as molecular markers for predicting prognosis and conversion surgery in Stage IV colorectal cancer. <i>Scientific Reports</i> , 2019, 9, 2466.	3.3	16
63	Human T-cell leukemia virus type 1 tax oncoprotein represses the expression of the BCL11 tumor suppressor in T-cells. <i>Cancer Science</i> , 2015, 106, 461-465.	3.9	15
64	The jPOST Repository as a Public Data Repository for Shotgun Proteomics. <i>Methods in Molecular Biology</i> , 2021, 2259, 309-322.	0.9	15
65	Profiling of host genetic alterations and intra-tumor microbiomes in colorectal cancer. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3330-3338.	4.1	15
66	RNF43 mutation is associated with aggressive tumor biology along with BRAF V600E mutation in right-sided colorectal cancer. <i>Oncology Reports</i> , 2020, 43, 1853-1862.	2.6	15
67	Enhanced Translocation and Growth of <i>Rhodococcus erythropolis</i> ; PR4 in the Alkane Phase of Aqueous-Alkane Two Phase Cultures Were Mediated by GroEL2 Overexpression. <i>Microbes and Environments</i> , 2014, 29, 346-352.	1.6	14
68	Unique transcriptional profile of native persisters in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 15-22.	2.2	14
69	Extraction and Analysis of Chemical Modification Patterns in Drug Development. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 1122-1129.	5.4	12
70	Analysis of polyamine biosynthetic- and transport ability of human indigenous <i>Bifidobacterium</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 1606-1614.	1.3	12
71	Genetic profiling for diffuse type and genomically stable subtypes in gastric cancer. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3301-3308.	4.1	12
72	Novel kinase fusion transcripts found in endometrial cancer. <i>Scientific Reports</i> , 2016, 5, 18657.	3.3	11

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73	Cytotoxic Glycosylated Fatty Acid Amides from a <i>Stelletta</i> sp. Marine Sponge. <i>Journal of Natural Products</i> , 2015, 78, 2808-2813.	3.0	10
74	Development of Novel PCR Assays for Improved Detection of Enterovirus D68. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0115121.	3.9	10
75	Evolutionary analysis of proline-directed phosphorylation sites in the mammalian growth cone identified using phosphoproteomics. <i>Molecular Brain</i> , 2019, 12, 53.	2.6	9
76	Knowledge base toward understanding actionable alterations and realizing precision oncology. <i>International Journal of Clinical Oncology</i> , 2019, 24, 123-130.	2.2	9
77	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013, 23, 1422-1424.	2.5	8
78	Elucidation of the evolutionary expansion of phosphorylation signaling networks using comparative phosphomotif analysis. <i>BMC Genomics</i> , 2014, 15, 546.	2.8	8
79	AldB controls persister formation in <i>Escherichia coli</i> depending on environmental stress. <i>Microbiology and Immunology</i> , 2018, 62, 299-309.	1.4	8
80	Sphingosine Kinase 1 is Associated With Immune Cell-Related Gene Expressions in Human Breast Cancer. <i>Journal of Surgical Research</i> , 2020, 256, 645-656.	1.6	8
81	Cost-effectiveness analysis of the use of comprehensive molecular profiling before initiating monoclonal antibody therapy against metastatic colorectal cancer in Japan. <i>Journal of Cancer Policy</i> , 2017, 12, 61-66.	1.4	7
82	Identification of TRAIL-positive cells as a potent refractory population in follicular lymphomas. <i>Cancer Science</i> , 2018, 110, 443-457.	3.9	7
83	Phosphoproteomic and bioinformatic methods for analyzing signaling in vertebrate axon growth and regeneration. <i>Journal of Neuroscience Methods</i> , 2020, 339, 108723.	2.5	7
84	Large-scale analysis of the evolutionary histories of phosphorylation motifs in the human genome. <i>GigaScience</i> , 2015, 4, 21.	6.4	6
85	Rare <i>PDCD11</i> variations are not associated with risk of schizophrenia in Japan. <i>Psychiatry and Clinical Neurosciences</i> , 2017, 71, 780-788.	1.8	6
86	The Human Gut Microbiome is Structured to Optimize Molecular Interaction Networks. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1040-1046.	4.1	6
87	Network analysis of adverse drug interactions. <i>Genome Informatics</i> , 2008, 20, 252-9.	0.4	6
88	Putrescine Production by <i>Lactobacillus curvatus</i> KP 3-4 Isolated from Fermented Foods. <i>Microorganisms</i> , 2022, 10, 697.	3.6	6
89	Plasma Sphingosine-1-Phosphate Levels Are Associated with Progression of Estrogen Receptor-Positive Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13367.	4.1	6
90	In silico study on the substrate binding manner in human myo-inositol monophosphatase 2. <i>Journal of Molecular Modeling</i> , 2011, 17, 2559-2567.	1.8	5

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91	Proposing a molecular classification associated with hypercoagulation in ovarian clear cell carcinoma. <i>Gynecologic Oncology</i> , 2021, 163, 327-333.	1.4	5
92	Altered microbiota by a high-fat diet accelerates lethal myeloid hematopoiesis associated with systemic SOCS3 deficiency. <i>IScience</i> , 2021, 24, 103117.	4.1	5
93	BioHackathon 2015: Semantics of data for life sciences and reproducible research. <i>F1000Research</i> , 2020, 9, 136.	1.6	5
94	Characterisation of N-glycans in the epithelial-like tissue of the rat cochlea. <i>Scientific Reports</i> , 2019, 9, 1551.	3.3	4
95	Frequent Germline and Somatic Single Nucleotide Variants in the Promoter Region of the Ribosomal RNA Gene in Japanese Lung Adenocarcinoma Patients. <i>Cells</i> , 2020, 9, 2409.	4.1	4
96	Mutational signatures in squamous cell carcinoma of the lung. <i>Journal of Thoracic Disease</i> , 2021, 13, 1075-1082.	1.4	4
97	Activin a Receptor Type 2A Mutation Affects the Tumor Biology of Microsatellite Instability-High Gastric Cancer. <i>Journal of Gastrointestinal Surgery</i> , 2021, 25, 2231-2241.	1.7	4
98	GlycoEpitope: Database for Carbohydrate Antigen and Antibody. , 2015, , 267-273.		4
99	Verification of the Japanese staging system for rectal cancer, focusing on differences with the TNM classification. <i>Surgery Today</i> , 2020, 50, 1443-1451.	1.5	4
100	Mutations in SDR9C7 gene encoding an enzyme for vitamin A metabolism underlie autosomal recessive congenital ichthyosis. <i>Journal of Dermatological Science</i> , 2017, 86, e50.	1.9	3
101	Actionable Gene Alterations in an Asian Population With Triple-Negative Breast Cancer. <i>JCO Precision Oncology</i> , 2018, 2, 1-13.	3.0	3
102	Conservation of gene co-regulation between two prokaryotes: <i>Bacillus subtilis</i> and <i>Escherichia coli</i> . <i>Genome Informatics</i> , 2005, 16, 116-24.	0.4	3
103	Latest developments in Semantic Web technologies applied to the glycosciences. <i>Perspectives in Science</i> , 2017, 11, 18-23.	0.6	2
104	Adipose most abundant 2 protein is a predictive marker for cisplatin sensitivity in cancers. <i>Scientific Reports</i> , 2021, 11, 6255.	3.3	2
105	GlycoEpitope: A Database for Carbohydrate Antigen and Antibody. , 2014, , 1-7.		2
106	Resequencing and Association Analysis of CLN8 with Autism Spectrum Disorder in a Japanese Population. <i>PLoS ONE</i> , 2015, 10, e0144624.	2.5	2
107	Detection of Potential Markers for Lip Vermilion Epithelium in Japanese Macaques Based on the Results of Gene Expression Profile. , 2022, 1, 3-13.		2
108	Cyclin D1 Binding Protein 1 Responds to DNA Damage through the ATM-CHK2 Pathway. <i>Journal of Clinical Medicine</i> , 2022, 11, 851.	2.4	2

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109	Analysis of the differences in metabolic network expansion between prokaryotes and eukaryotes. <i>Genome Informatics</i> , 2006, 17, 230-9.	0.4	2
110	Differing impact of phosphoglycerate mutase 1-deficiency on brown and white adipose tissue. <i>IScience</i> , 2022, 25, 104268.	4.1	2
111	Functional glyco-metagenomics elucidates the role of glycan-related genes in environments. <i>BMC Bioinformatics</i> , 2021, 22, 505.	2.6	1
112	Novel gene fusions found in cervical cancer. <i>EBioMedicine</i> , 2018, 38, 13-14.	6.1	0
113	Genome-wide analysis of single nucleotide variants on phosphorylation motifs. <i>FASEB Journal</i> , 2018, 32, lb113.	0.5	0
114	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. <i>F1000Research</i> , 0, 8, 1677.	1.6	0