Ichi N Maruyama

List of Publications by Year
in descending order

61 papers	3,100 citations	218677 26 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	2929 citing authors

#	Article	IF	Citations
1	Mutation in histone deacetylase HDA-3 leads to shortened locomotor healthspan in Caenorhabditis elegans. Aging, 2020, 12, 23525-23547.	3.1	4
2	Active propagation of dendritic electrical signals in C. elegans. Scientific Reports, 2019, 9, 3430.	3.3	16
3	Forward Genetic Screen for <i>Caenorhabditis elegans</i> Mutants with a Shortened Locomotor Healthspan. G3: Genes, Genomes, Genetics, 2019, 9, 2415-2423.	1.8	30
4	Activation of Preformed EGFR Dimers by Binding of Single EGF Molecules: Negative Cooperativity. Biophysical Journal, 2018, 114, 463a.	0.5	0
5	Plate Assay to Determine Caenorhabditis elegans Response to Water Soluble and Volatile Chemicals. Bio-protocol, 2018, 8, e2740.	0.4	0
6	Activation of the EGF Receptor by Ligand Binding and Oncogenic Mutations: The â€œRotation Modelâ€. Cells, 2017, 6, 13.	4.1	118
7	Appetitive Olfactory Learning and Long-Term Associative Memory in Caenorhabditis elegans. Frontiers in Behavioral Neuroscience, 2017, 11, 80.	2.0	23
8	Association of TrkA and APP Is Promoted by NGF and Reduced by Cell Death-Promoting Agents. Frontiers in Molecular Neuroscience, 2017, 10, 15.	2.9	19
9	Receptor Guanylyl Cyclases in Sensory Processing. Frontiers in Endocrinology, 2016, 7, 173.	3.5	20
10	Activation of transmembrane cellâ€surface receptors via a common mechanism? The â€œrotation modelâ€. BioEssays, 2015, 37, 959-967.	2.5	64
11	Alkaline pH sensor molecules. Journal of Neuroscience Research, 2015, 93, 1623-1630.	2.9	8
12	Mechanisms of Activation of Receptor Tyrosine Kinases: Monomers or Dimers. Cells, 2014, 3, 304-330.	4.1	153
13	Crystallization and preliminary X-ray diffraction analysis of the periplasmic domain of the<i>Escherichia coli</i>aspartate receptor Tar and its complex with aspartate. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1219-1223.	0.8	3
14	Strongly alkaline pH avoidance mediated by ASH sensory neurons in C. elegans. Neuroscience Letters, 2013, 555, 248-252.	2.1	20
15	Environmental Alkalinity Sensing Mediated by the Transmembrane Guanylyl Cyclase GCY-14 in C.Âelegans. Current Biology, 2013, 23, 1007-1012.	3.9	28
16	Decision making in<i>C. elegans</i>chemotaxis to alkaline pH. Communicative and Integrative Biology, 2013, 6, e26633.	1.4	7
17	A G-protein Î± subunit, GOA-1, plays a role in<i>C. elegans</i>avoidance behavior of strongly alkaline pH. Communicative and Integrative Biology, 2013, 6, e26668.	1.4	5
18	Brain-derived neurotrophic factor receptor TrkB exists as a preformed dimer in living cells. Journal of Molecular Signaling, 2012, 7, 2.	0.5	40

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19	Nerve growth factor receptor TrkA exists as a preformed, yet inactive, dimer in living cells. FEBS Letters, 2011, 585, 295-299.	2.8	45
20	Aversive olfactory learning and associative long-term memory in <i>Caenorhabditis elegans</i>. Learning and Memory, 2011, 18, 654-665.	1.3	63
21	The ulcerative colitis marker protein WAFL interacts with accessory proteins in endocytosis. International Journal of Biological Sciences, 2010, 6, 163-171.	6.4	16
22	A Ubiquitin E2 Variant Protein Acts in Axon Termination and Synaptogenesis in <i>Caenorhabditis elegans</i>. Genetics, 2010, 186, 135-145.	2.9	15
23	Identification of ADAMTS13 peptide sequences binding to von Willebrand factor. Biochemical and Biophysical Research Communications, 2010, 391, 783-788.	2.1	7
24	All EGF(ErbB) receptors have preformed homo- and heterodimeric structures in living cells. Journal of Cell Science, 2008, 121, 3207-3217.	2.0	180
25	Multifunctional fluorescence correlation microscope for intracellular and microfluidic measurements. Review of Scientific Instruments, 2007, 78, 053711.	1.3	28
26	Spatially Resolved Total Internal Reflection Fluorescence Correlation Microscopy Using an Electron Multiplying Charge-Coupled Device Camera. Analytical Chemistry, 2007, 79, 4463-4470.	6.5	94
27	ASB-1, a germline-specific isoform of mitochondrial ATP synthase b subunit, is required to maintain the rate of germline development in Caenorhabditis elegans. Mechanisms of Development, 2007, 124, 237-251.	1.7	20
28	Investigation of the Dimerization of Proteins from the Epidermal Growth Factor Receptor Family by Single Wavelength Fluorescence Cross-Correlation Spectroscopy. Biophysical Journal, 2007, 93, 684-698.	0.5	160
29	Identification of ADAMTS13 Epitopes Required for Binding to von Willebrand Factor Using Lambda Phage Surface Display.. Blood, 2007, 110, 2707-2707.	1.4	0
30	Electron Multiplying Charge-Coupled Device Camera Based Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2006, 78, 3444-3451.	6.5	83
31	Efficient isolation of cDNA clones encoding rheumatoid arthritis autoantigens by lambda phage surface display. Journal of Biotechnology, 2004, 114, 55-58.	3.8	9
32	Affinity Selection of DNA-Binding Proteins from Yeast Genomic DNA Libraries by Improved Â Phage Display Vector. Journal of Biochemistry, 2002, 132, 975-982.	1.7	12
33	Activation of preformed EGF receptor dimers by ligand-induced rotation of the transmembrane domain11Edited by B. Holland. Journal of Molecular Biology, 2001, 311, 1011-1026.	4.2	310
34	Synaptic exocytosis and nervous system development impaired in Caenorhabditis elegans unc-13 mutants. Neuroscience, 2001, 104, 287-297.	2.3	12
35	Affinity Selection of DNA-Binding Proteins Displayed on Bacteriophage Â. Journal of Biochemistry, 2000, 127, 1057-1063.	1.7	8
36	Cyborg Lectins: Novel Leguminous Lectins with Unique Specificities. Journal of Biochemistry, 2000, 127, 137-142.	1.7	21

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37	Expression of Multiple UNC-13 Proteins in the<i>Caenorhabditis elegans</i>Nervous System. Molecular Biology of the Cell, 2000, 11, 3441-3452.	2.1	80
38	Affinity selection of cDNA libraries by Î» phage surface display. Gene, 2000, 256, 229-236.	2.2	27
39	Mapping of the minimal domain encoding a conformational epitope by Î» phage surface display: factor VIII inhibitor antibodies from haemophilia A patients. Journal of Immunological Methods, 1999, 224, 89-99.	1.4	31
40	Inversion of thermosensing property of the bacterial receptor tar by mutations in the second transmembrane region 1 1Edited by I. B. Holland. Journal of Molecular Biology, 1999, 286, 1275-1284.	4.2	23
41	Protein Domain Mapping by Î» Phage Display: The Minimal Lactose-Binding Domain of Galectin-3. Biochemical and Biophysical Research Communications, 1999, 265, 291-296.	2.1	17
42	Efficient epitope mapping by bacteriophage Î» surface display. Nature Biotechnology, 1997, 15, 74-78.	17.5	37
43	cRACE: a simple method for identification of the 5â€² end of mRNAs. Nucleic Acids Research, 1995, 23, 3796-3797.	14.5	123
44	A Model for Transmembrane Signalling by the Aspartate Receptor Based on Random-cassette Mutagenesis and Site-directed Disulphide Cross-linking. Journal of Molecular Biology, 1995, 253, 530-546.	4.2	47
45	Lambda foo: a lambda phage vector for the expression of foreign proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8273-8277.	7.1	137
46	A bacteriophage T7-based expression vector, pBT7, with color selection for the recombinant. Gene, 1993, 131, 79-82.	2.2	3
47	The <i>Caenorhabditis elegans unc-13</i> gene product is a phospholipid-dependent high-affinity phorbol ester receptor. Biochemical Journal, 1992, 287, 995-999.	3.7	76
48	A selective Î» phage cloning vector with automatic excision of the insert in a plasmid. Gene, 1992, 120, 135-141.	2.2	12
49	A phorbol ester/diacylglycerol-binding protein encoded by the unc-13 gene of Caenorhabditis elegans.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 5729-5733.	7.1	242
50	Myosin heavy chain gene amplification as a suppressor mutation in Caenorhabditis elegans. Molecular Genetics and Genomics, 1989, 219, 113-118.	2.4	28
51	A synthetic translation-terminator gene. Gene Analysis Techniques, 1989, 6, 57-61.	1.0	5
52	Sequence analysis of the complete Caenorhabditis elegans myosin heavy chain gene family. Journal of Molecular Biology, 1989, 205, 603-613.	4.2	113
53	Overexpression, solubilization and refolding of a genetically engineered derivative of the penicillin-binding protein 3 of Escherichia coli K12. Molecular Microbiology, 1988, 2, 519-525.	2.5	20
54	Determination of gene products and coding regions from the murE-murF region of Escherichia coli. Journal of Bacteriology, 1988, 170, 3786-3788.	2.2	17

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55	On the process of cellular division in Escherichia coli: Nucleotide sequence of the gene for penicillin-binding protein 3. Molecular Genetics and Genomics, 1983, 191, 1-9.	2.4	130
56	Structure of a neothramycin-2â€²-deoxyguanosine adduct. Biochemical and Biophysical Research Communications, 1981, 98, 970-975.	2.1	20
57	Fluorospectrometric studies on neothramycin and its reaction with DNA.. Journal of Antibiotics, 1981, 34, 427-435.	2.0	7
58	Mechanism of action of neothramycin. II. Interaction with DNA.. Journal of Antibiotics, 1979, 32, 928-934.	2.0	10
59	Mechanism of action of neothramycin. I. The effect on macromolecular syntheses.. Journal of Antibiotics, 1978, 31, 761-768.	2.0	15
60	Isolation of a mutant of Escherichia coli lacking penicillin-sensitive D-alanine carboxypeptidase IA.. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 2631-2635.	7.1	98
61	Mutants of Escherichia coli lacking in highly penicillin-sensitive D-alanine carboxypeptidase activity.. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 2976-2979.	7.1	141