

# Ichi N Maruyama

## List of Publications by Year in descending order

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61  
papers

3,100  
citations

218592

26  
h-index

161767

54  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of preformed EGF receptor dimers by ligand-induced rotation of the transmembrane domain. Edited by B. Holland. <i>Journal of Molecular Biology</i> , 2001, 311, 1011-1026.	2.0	310
2	A phorbol ester/diacylglycerol-binding protein encoded by the <i>unc-13</i> gene of <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 5729-5733.	3.3	242
3	All EGF(ErbB) receptors have preformed homo- and heterodimeric structures in living cells. <i>Journal of Cell Science</i> , 2008, 121, 3207-3217.	1.2	180
4	Investigation of the Dimerization of Proteins from the Epidermal Growth Factor Receptor Family by Single Wavelength Fluorescence Cross-Correlation Spectroscopy. <i>Biophysical Journal</i> , 2007, 93, 684-698.	0.2	160
5	Mechanisms of Activation of Receptor Tyrosine Kinases: Monomers or Dimers. <i>Cells</i> , 2014, 3, 304-330.	1.8	153
6	Mutants of <i>Escherichia coli</i> lacking in highly penicillin-sensitive D-alanine carboxypeptidase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977, 74, 2976-2979.	3.3	141
7	Lambda phage: a lambda phage vector for the expression of foreign proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 8273-8277.	3.3	137
8	On the process of cellular division in <i>Escherichia coli</i> : Nucleotide sequence of the gene for penicillin-binding protein 3. <i>Molecular Genetics and Genomics</i> , 1983, 191, 1-9.	2.4	130
9	cRACE: a simple method for identification of the 5' end of mRNAs. <i>Nucleic Acids Research</i> , 1995, 23, 3796-3797.	6.5	123
10	Activation of the EGF Receptor by Ligand Binding and Oncogenic Mutations: The "Rotation Model". <i>Cells</i> , 2017, 6, 13.	1.8	118
11	Sequence analysis of the complete <i>Caenorhabditis elegans</i> myosin heavy chain gene family. <i>Journal of Molecular Biology</i> , 1989, 205, 603-613.	2.0	113
12	Isolation of a mutant of <i>Escherichia coli</i> lacking penicillin-sensitive D-alanine carboxypeptidase IA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978, 75, 2631-2635.	3.3	98
13	Spatially Resolved Total Internal Reflection Fluorescence Correlation Microscopy Using an Electron Multiplying Charge-Coupled Device Camera. <i>Analytical Chemistry</i> , 2007, 79, 4463-4470.	3.2	94
14	Electron Multiplying Charge-Coupled Device Camera Based Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2006, 78, 3444-3451.	3.2	83
15	Expression of Multiple UNC-13 Proteins in the <i>Caenorhabditis elegans</i> Nervous System. <i>Molecular Biology of the Cell</i> , 2000, 11, 3441-3452.	0.9	80
16	The <i>Caenorhabditis elegans unc-13</i> gene product is a phospholipid-dependent high-affinity phorbol ester receptor. <i>Biochemical Journal</i> , 1992, 287, 995-999.	1.7	76
17	Activation of transmembrane cell surface receptors via a common mechanism? The "rotation model". <i>BioEssays</i> , 2015, 37, 959-967.	1.2	64
18	Aversive olfactory learning and associative long-term memory in <i>Caenorhabditis elegans</i> . <i>Learning and Memory</i> , 2011, 18, 654-665.	0.5	63

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19	A Model for Transmembrane Signalling by the Aspartate Receptor Based on Random-cassette Mutagenesis and Site-directed Disulphide Cross-linking. <i>Journal of Molecular Biology</i> , 1995, 253, 530-546.	2.0	47
20	Nerve growth factor receptor TrkA exists as a preformed, yet inactive, dimer in living cells. <i>FEBS Letters</i> , 2011, 585, 295-299.	1.3	45
21	Brain-derived neurotrophic factor receptor TrkB exists as a preformed dimer in living cells. <i>Journal of Molecular Signaling</i> , 2012, 7, 2.	0.5	40
22	Efficient epitope mapping by bacteriophage $\lambda$ surface display. <i>Nature Biotechnology</i> , 1997, 15, 74-78.	9.4	37
23	Mapping of the minimal domain encoding a conformational epitope by $\lambda$ phage surface display: factor VIII inhibitor antibodies from haemophilia A patients. <i>Journal of Immunological Methods</i> , 1999, 224, 89-99.	0.6	31
24	Forward Genetic Screen for <i>Caenorhabditis elegans</i> Mutants with a Shortened Locomotor Healthspan. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 2415-2423.	0.8	30
25	Myosin heavy chain gene amplification as a suppressor mutation in <i>Caenorhabditis elegans</i> . <i>Molecular Genetics and Genomics</i> , 1989, 219, 113-118.	2.4	28
26	Multifunctional fluorescence correlation microscope for intracellular and microfluidic measurements. <i>Review of Scientific Instruments</i> , 2007, 78, 053711.	0.6	28
27	Environmental Alkalinity Sensing Mediated by the Transmembrane Guanylyl Cyclase GCY-14 in <i>C.Âelegans</i> . <i>Current Biology</i> , 2013, 23, 1007-1012.	1.8	28
28	Affinity selection of cDNA libraries by $\lambda$ phage surface display. <i>Gene</i> , 2000, 256, 229-236.	1.0	27
29	Inversion of thermosensing property of the bacterial receptor tar by mutations in the second transmembrane region 1 Edited by I. B. Holland. <i>Journal of Molecular Biology</i> , 1999, 286, 1275-1284.	2.0	23
30	Appetitive Olfactory Learning and Long-Term Associative Memory in <i>Caenorhabditis elegans</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 80.	1.0	23
31	Cyborg Lectins: Novel Leguminous Lectins with Unique Specificities. <i>Journal of Biochemistry</i> , 2000, 127, 137-142.	0.9	21
32	Structure of a neothramycin-2â€²-deoxyguanosine adduct. <i>Biochemical and Biophysical Research Communications</i> , 1981, 98, 970-975.	1.0	20
33	Overexpression, solubilization and refolding of a genetically engineered derivative of the penicillin-binding protein 3 of <i>Escherichia coli</i> K12. <i>Molecular Microbiology</i> , 1988, 2, 519-525.	1.2	20
34	ASB-1, a germline-specific isoform of mitochondrial ATP synthase b subunit, is required to maintain the rate of germline development in <i>Caenorhabditis elegans</i> . <i>Mechanisms of Development</i> , 2007, 124, 237-251.	1.7	20
35	Strongly alkaline pH avoidance mediated by ASH sensory neurons in <i>C. elegans</i> . <i>Neuroscience Letters</i> , 2013, 555, 248-252.	1.0	20
36	Receptor Guanylyl Cyclases in Sensory Processing. <i>Frontiers in Endocrinology</i> , 2016, 7, 173.	1.5	20

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37	Association of TrkA and APP Is Promoted by NGF and Reduced by Cell Death-Promoting Agents. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 15.	1.4	19
38	Determination of gene products and coding regions from the murE-murF region of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 3786-3788.	1.0	17
39	Protein Domain Mapping by $\lambda$ Phage Display: The Minimal Lactose-Binding Domain of Galectin-3. <i>Biochemical and Biophysical Research Communications</i> , 1999, 265, 291-296.	1.0	17
40	The ulcerative colitis marker protein WAFL interacts with accessory proteins in endocytosis. <i>International Journal of Biological Sciences</i> , 2010, 6, 163-171.	2.6	16
41	Active propagation of dendritic electrical signals in <i>C. elegans</i> . <i>Scientific Reports</i> , 2019, 9, 3430.	1.6	16
42	Mechanism of action of neothramycin. I. The effect on macromolecular syntheses.. <i>Journal of Antibiotics</i> , 1978, 31, 761-768.	1.0	15
43	A Ubiquitin E2 Variant Protein Acts in Axon Termination and Synaptogenesis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2010, 186, 135-145.	1.2	15
44	A selective $\lambda$ phage cloning vector with automatic excision of the insert in a plasmid. <i>Gene</i> , 1992, 120, 135-141.	1.0	12
45	Synaptic exocytosis and nervous system development impaired in <i>Caenorhabditis elegans</i> unc-13 mutants. <i>Neuroscience</i> , 2001, 104, 287-297.	1.1	12
46	Affinity Selection of DNA-Binding Proteins from Yeast Genomic DNA Libraries by Improved $\lambda$ Phage Display Vector. <i>Journal of Biochemistry</i> , 2002, 132, 975-982.	0.9	12
47	Mechanism of action of neothramycin. II. Interaction with DNA.. <i>Journal of Antibiotics</i> , 1979, 32, 928-934.	1.0	10
48	Efficient isolation of cDNA clones encoding rheumatoid arthritis autoantigens by lambda phage surface display. <i>Journal of Biotechnology</i> , 2004, 114, 55-58.	1.9	9
49	Affinity Selection of DNA-Binding Proteins Displayed on Bacteriophage $\lambda$ . <i>Journal of Biochemistry</i> , 2000, 127, 1057-1063.	0.9	8
50	Alkaline pH sensor molecules. <i>Journal of Neuroscience Research</i> , 2015, 93, 1623-1630.	1.3	8
51	Fluorometric studies on neothramycin and its reaction with DNA.. <i>Journal of Antibiotics</i> , 1981, 34, 427-435.	1.0	7
52	Identification of ADAMTS13 peptide sequences binding to von Willebrand factor. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 783-788.	1.0	7
53	Decision making in <i>C. elegans</i> chemotaxis to alkaline pH. <i>Communicative and Integrative Biology</i> , 2013, 6, e26633.	0.6	7
54	A synthetic translation-terminator gene. <i>Gene Analysis Techniques</i> , 1989, 6, 57-61.	1.1	5

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55	A G-protein $\hat{\pm}$ subunit, GOA-1, plays a role in <i>C. elegans</i> avoidance behavior of strongly alkaline pH. Communicative and Integrative Biology, 2013, 6, e26668.	0.6	5
56	Mutation in histone deacetylase HDA-3 leads to shortened locomotor healthspan in <i>Caenorhabditis elegans</i> . Aging, 2020, 12, 23525-23547.	1.4	4
57	A bacteriophage T7-based expression vector, pBT7, with color selection for the recombinant. Gene, 1993, 131, 79-82.	1.0	3
58	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.	0.4	3
59	Activation of Preformed EGFR Dimers by Binding of Single EGF Molecules: Negative Cooperativity. Biophysical Journal, 2018, 114, 463a.	0.2	0
60	Identification of ADAMTS13 Epitopes Required for Binding to von Willebrand Factor Using Lambda Phage Surface Display.. Blood, 2007, 110, 2707-2707.	0.6	0
61	Plate Assay to Determine <i>Caenorhabditis elegans</i> Response to Water Soluble and Volatile Chemicals. Bio-protocol, 2018, 8, e2740.	0.2	0