

Takanari Inoue

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,967
citations

186265
28
h-index

144013
57
g-index

74
all docs

74
docs citations

74
times ranked

6146
citing authors

#	ARTICLE	IF	CITATIONS
1	PI(3,4,5)P3 and PI(4,5)P2 Lipids Target Proteins with Polybasic Clusters to the Plasma Membrane. <i>Science</i> , 2006, 314, 1458-1461.	12.6	703
2	Rapid Chemically Induced Changes of PtdIns(4,5)P2 Gate KCNQ Ion Channels. <i>Science</i> , 2006, 314, 1454-1457.	12.6	457
3	An inducible translocation strategy to rapidly activate and inhibit small GTPase signaling pathways. <i>Nature Methods</i> , 2005, 2, 415-418.	19.0	379
4	Phosphoinositides Regulate Ciliary Protein Trafficking to Modulate Hedgehog Signaling. <i>Developmental Cell</i> , 2015, 34, 400-409.	7.0	274
5	Dynamic Remodeling of Membrane Composition Drives Cell Cycle through Primary Cilia Excision. <i>Cell</i> , 2017, 168, 264-279.e15.	28.9	273
6	A phosphorylation-dependent intramolecular interaction regulates the membrane association and activity of the tumor suppressor PTEN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 480-485.	7.1	242
7	Manipulating signaling at will: chemically-inducible dimerization (CID) techniques resolve problems in cell biology. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 409-417.	2.8	198
8	Rapid and orthogonal logic gating with a gibberellin-induced dimerization system. <i>Nature Chemical Biology</i> , 2012, 8, 465-470.	8.0	183
9	Organelle-specific, rapid induction of molecular activities and membrane tethering. <i>Nature Methods</i> , 2010, 7, 206-208.	19.0	141
10	A Photocleavable Rapamycin Conjugate for Spatiotemporal Control of Small GTPase Activity. <i>Journal of the American Chemical Society</i> , 2011, 133, 12-14.	13.7	128
11	Synthetic Activation of Endogenous PI3K and Rac Identifies an AND-Gate Switch for Cell Polarization and Migration. <i>PLoS ONE</i> , 2008, 3, e3068.	2.5	126
12	Real-Time Measurements of Protein Dynamics Using Fluorescence Activation-Coupled Protein Labeling Method. <i>Journal of the American Chemical Society</i> , 2011, 133, 6745-6751.	13.7	122
13	Altering the threshold of an excitable signal transduction network changes cell migratory modes. <i>Nature Cell Biology</i> , 2017, 19, 329-340.	10.3	121
14	Genetically encoded calcium indicator illuminates calcium dynamics in primary cilia. <i>Nature Methods</i> , 2013, 10, 1105-1107.	19.0	119
15	Chemically inducible diffusion trap at cilia reveals molecular sieve-like barrier. <i>Nature Chemical Biology</i> , 2013, 9, 437-443.	8.0	117
16	Robust Neuronal Symmetry Breaking by Ras-Triggered Local Positive Feedback. <i>Current Biology</i> , 2008, 18, 44-50.	3.9	110
17	Intracellular production of hydrogels and synthetic RNA granules by multivalent molecular interactions. <i>Nature Materials</i> , 2018, 17, 79-89.	27.5	106
18	Compartmentalized AMPK Signaling Illuminated by Genetically Encoded Molecular Sensors and Actuators. <i>Cell Reports</i> , 2015, 11, 657-670.	6.4	83

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19	Apocalmodulin Itself Promotes Ion Channel Opening and Ca ²⁺ Regulation. <i>Cell</i> , 2014, 159, 608-622.	28.9	81
20	Dissecting the role of PtdIns(4,5)P ₂ in endocytosis and recycling of the transferrin receptor. <i>Journal of Cell Science</i> , 2008, 121, 1488-1494.	2.0	73
21	Interplay between chemotaxis and contact inhibition of locomotion determines exploratory cell migration. <i>Nature Communications</i> , 2015, 6, 6619.	12.8	72
22	Wave patterns organize cellular protrusions and control cortical dynamics. <i>Molecular Systems Biology</i> , 2019, 15, e8585.	7.2	70
23	An essential role for the SHIP2-dependent negative feedback loop in neuritogenesis of nerve growth factor-stimulated PC12 cells. <i>Journal of Cell Biology</i> , 2007, 177, 817-827.	5.2	64
24	Synthetic spatially graded Rac activation drives cell polarization and movement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3668-77.	7.1	60
25	Spatiotemporal manipulation of ciliary glutamylation reveals its roles in intraciliary trafficking and Hedgehog signaling. <i>Nature Communications</i> , 2018, 9, 1732.	12.8	53
26	Rapidly Reversible Manipulation of Molecular Activity with Dual Chemical Dimerizers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6450-6454.	13.8	50
27	Triggering Actin Comets Versus Membrane Ruffles: Distinctive Effects of Phosphoinositides on Actin Reorganization. <i>Science Signaling</i> , 2011, 4, ra87.	3.6	49
28	Phospholipid-flipping activity of P4-ATPase drives membrane curvature. <i>EMBO Journal</i> , 2018, 37, .	7.8	41
29	An intelligent nano-antenna: Primary cilium harnesses TRP channels to decode polymodal stimuli. <i>Cell Calcium</i> , 2015, 58, 415-422.	2.4	34
30	A novel membrane anchor for FtsZ is linked to cell wall hydrolysis in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , 2016, 101, 265-280.	2.5	32
31	Allosteric regulators selectively prevent Ca ²⁺ -feedback of CaV and NaV channels. <i>ELife</i> , 2018, 7, .	6.0	31
32	Rational design and implementation of a chemically inducible heterotrimerization system. <i>Nature Methods</i> , 2020, 17, 928-936.	19.0	30
33	The small GTPase HRas shapes local PI3K signals through positive feedback and regulates persistent membrane extension in migrating fibroblasts. <i>Molecular Biology of the Cell</i> , 2013, 24, 2228-2237.	2.1	26
34	Following Optogenetic Dimerizers and Quantitative Prospects. <i>Biophysical Journal</i> , 2016, 111, 1132-1140.	0.5	26
35	Bin/Amphiphysin/Rvs (BAR) family members bend membranes in cells. <i>Scientific Reports</i> , 2014, 4, 4693.	3.3	25
36	Twist1-Induced Epithelial Dissemination Requires Prkd1 Signaling. <i>Cancer Research</i> , 2020, 80, 204-218.	0.9	23

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37	Harnessing biomolecular condensates in living cells. <i>Journal of Biochemistry</i> , 2019, 166, 13-27.	1.7	22
38	PIP2 determines length and stability of primary cilia by balancing membrane turnovers. <i>Communications Biology</i> , 2022, 5, 93.	4.4	22
39	Rapidly Relocating Molecules Between Organelles to Manipulate Small GTPase Activity. <i>ACS Chemical Biology</i> , 2012, 7, 1950-1955.	3.4	19
40	Opening the conformation is a master switch for the dual localization and phosphatase activity of PTEN. <i>Scientific Reports</i> , 2015, 5, 12600.	3.3	18
41	Toward total synthesis of cell function: Reconstituting cell dynamics with synthetic biology. <i>Science Signaling</i> , 2016, 9, re1.	3.6	16
42	Duplex signaling by CaM and Stac3 enhances CaV1.1 function and provides insights into congenital myopathy. <i>Journal of General Physiology</i> , 2018, 150, 1145-1161.	1.9	16
43	Visualizing molecular diffusion through passive permeability barriers in cells: conventional and novel approaches. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 663-671.	6.1	13
44	Rapidly rendering cells phagocytic through a cell surface display technique and concurrent Rac activation. <i>Science Signaling</i> , 2014, 7, rs4.	3.6	13
45	Autonomy declared by primary cilia through compartmentalization of membrane phosphoinositides. <i>Current Opinion in Cell Biology</i> , 2018, 50, 72-78.	5.4	13
46	Rapidly Reversible Manipulation of Molecular Activity with Dual Chemical Dimerizers. <i>Angewandte Chemie</i> , 2013, 125, 6578-6582.	2.0	11
47	Cellular Signaling Circuits Interfaced with Synthetic, Post-Translational, Negating Boolean Logic Devices. <i>ACS Synthetic Biology</i> , 2014, 3, 676-685.	3.8	10
48	Discovery of the Hedgehog Pathway Inhibitor Pipinib that Targets PI4KIII α . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16617-16628.	13.8	10
49	A molecular trap inside microtubules probes luminal access by soluble proteins. <i>Nature Chemical Biology</i> , 2021, 17, 888-895.	8.0	9
50	Metabolic Compartmentalization at the Leading Edge of Metastatic Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 554272.	2.8	8
51	Rational Design of a Protein Kinase A Nuclear-cytosol Translocation Reporter. <i>Scientific Reports</i> , 2020, 10, 9365.	3.3	6
52	Growth and site-specific organization of micron-scale biomolecular devices on living mammalian cells. <i>Nature Communications</i> , 2021, 12, 5729.	12.8	6
53	A Method to Rapidly Induce Organelle-Specific Molecular Activities and Membrane Tethering. <i>Methods in Molecular Biology</i> , 2014, 1174, 231-245.	0.9	5
54	Cellular Application of Genetically Encoded Sensors and Impeders of AMPK. <i>Methods in Molecular Biology</i> , 2018, 1732, 255-272.	0.9	5

#	ARTICLE	IF	CITATIONS
55	Deconvoluting AMPK dynamics. Oncotarget, 2015, 6, 30431-30432.	1.8	4
56	Controlling Enzymatic Action in Living Cells with a Kinase-Inducible Bimolecular Switch. ACS Chemical Biology, 2013, 8, 116-121.	3.4	3
57	New Biological Frontiers Illuminated by Molecular Sensors and Actuators. Biophysical Journal, 2016, 111, E01-E02.	0.5	1
58	Synthetic design of farnesyl-electrostatic peptides for development of a protein kinase A membrane translocation switch. Scientific Reports, 2021, 11, 16421.	3.3	1
59	Deconstructing and constructing innate immune functions using molecular sensors and actuators. , 2016, , .		0
60	Functional implications of Pacsin2 localization in mast cells. FASEB Journal, 2021, 35, .	0.5	0
61	Editorial: The Cytoskeleton and Cellular Compartmentation: Cilia as Specialized Cellular Domains. Frontiers in Cell and Developmental Biology, 2021, 9, 777758.	3.7	0