Sen Takeda

List of Publications by Year
in descending order

89 papers	6,633 citations	136950 32 h-index	64796 79 g-index
99 all docs	99 docs citations	99 times ranked	6494 citing authors

#	Article	IF	Citations
1	Randomization of Leftâ€“Right Asymmetry due to Loss of Nodal Cilia Generating Leftward Flow of Extraembryonic Fluid in Mice Lacking KIF3B Motor Protein. Cell, 1998, 95, 829-837.	28.9	1,489
2	Charcot-Marie-Tooth Disease Type 2A Caused by Mutation in a Microtubule Motor KIF1BÎ². Cell, 2001, 105, 587-597.	28.9	725
3	Targeted Disruption of Mouse Conventional Kinesin Heavy Chain kif5B, Results in Abnormal Perinuclear Clustering of Mitochondria. Cell, 1998, 93, 1147-1158.	28.9	590
4	Nodal Flow and the Generation of Left-Right Asymmetry. Cell, 2006, 125, 33-45.	28.9	497
5	Mechanism of Nodal Flow: A Conserved Symmetry Breaking Event in Left-Right Axis Determination. Cell, 2005, 121, 633-644.	28.9	424
6	Left-Right Asymmetry and Kinesin Superfamily Protein KIF3A: New Insights in Determination of Laterality and Mesoderm Induction by kif3Aâ^'/â^' Mice Analysis. Journal of Cell Biology, 1999, 145, 825-836.	5.2	419
7	Kinesin Superfamily Protein 3 (Kif3) Motor Transports Fodrin-Associating Vesicles Important for Neurite Building. Journal of Cell Biology, 2000, 148, 1255-1266.	5.2	179
8	Synapsin I deficiency results in the structural change in the presynaptic terminals in the murine nervous system.. Journal of Cell Biology, 1995, 131, 1789-1800.	5.2	155
9	Genetically encoded calcium indicator illuminates calcium dynamics in primary cilia. Nature Methods, 2013, 10, 1105-1107.	19.0	119
10	Slow axonal transport: the subunit transport model. Trends in Cell Biology, 1997, 7, 384-388.	7.9	109
11	Ambient imaging mass spectrometry by electrospray ionization using solid needle as sampling probe. Journal of Mass Spectrometry, 2009, 44, 1469-1477.	1.6	105
12	Gene Targeting Studies Begin to Reveal the Function of Neurofilament Proteins. Journal of Cell Biology, 1998, 143, 1-4.	5.2	83
13	Multiple Primary Cilia Modulate the Fluid Transcytosis in Choroid Plexus Epithelium. Traffic, 2010, 11, 287-301.	2.7	83
14	Characteristics of Probe Electrospray Generated from a Solid Needle. Journal of Physical Chemistry B, 2008, 112, 11164-11170.	2.6	79
15	Role of KIFC3 motor protein in Golgi positioning and integration. Journal of Cell Biology, 2002, 158, 293-303.	5.2	77
16	Proteomic analysis of multiple primary cilia reveals a novel mode of ciliary development in mammals. Biology Open, 2012, 1, 815-825.	1.2	68
17	Application of probe electrospray to direct ambient analysis of biological samples. Rapid Communications in Mass Spectrometry, 2008, 22, 2366-2374.	1.5	66
18	Cilia in the choroid plexus: their roles in hydrocephalus and beyond. Frontiers in Cellular Neuroscience, 2015, 9, 39.	3.7	66

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19	Structure and function of vertebrate cilia, towards a new taxonomy. Differentiation, 2012, 83, S4-S11.	1.9	64
20	Tubulin dynamics in neuronal axons of living zebrafish embryos. Neuron, 1995, 14, 1257-1264.	8.1	63
21	Differential dynamics of neurofilament-H protein and neurofilament-L protein in neurons.. Journal of Cell Biology, 1994, 127, 173-185.	5.2	62
22	Analysis of Renal Cell Carcinoma as a First Step for Developing Mass Spectrometry-Based Diagnostics. Journal of the American Society for Mass Spectrometry, 2012, 23, 1741-1749.	2.8	61
23	Physical properties of the probe electrospray ionization (PESI) needle applied to the biological samples. Journal of Mass Spectrometry, 2009, 44, 978-985.	1.6	59
24	Application of Probe Electrospray Ionization Mass Spectrometry (PESI-MS) to Clinical Diagnosis: Solvent Effect on Lipid Analysis. Journal of the American Society for Mass Spectrometry, 2012, 23, 2043-2047.	2.8	49
25	Modulation of primary cilia length by melanin-concentrating hormone receptor 1. Cellular Signalling, 2016, 28, 572-584.	3.6	44
26	Active transport of photoactivated tubulin molecules in growing axons revealed by a new electron microscopic analysis.. Journal of Cell Biology, 1996, 133, 1347-1353.	5.2	41
27	Differential Neuroprotective Activity of Two Different Grape Seed Extracts. PLoS ONE, 2011, 6, e14575.	2.5	41
28	TRPV4 regulates the integrity of the bloodâ€cerebrospinal fluid barrier and modulates transepithelial protein transport. FASEB Journal, 2015, 29, 2247-2259.	0.5	40
29	Real-time diagnosis of chemically induced hepatocellular carcinoma using a novel mass spectrometry-based technique. Analytical Biochemistry, 2013, 441, 32-37.	2.4	39
30	Real-time analysis of living animals by electrospray ionization mass spectrometry. Analytical Biochemistry, 2011, 417, 195-201.	2.4	38
31	Association of nonsense mutation in GABRG2 with abnormal trafficking of GABAA receptors in severe epilepsy. Epilepsy Research, 2014, 108, 420-432.	1.6	38
32	Biomolecular analysis and cancer diagnostics by negative mode probe electrospray ionization. Analyst, The, 2013, 138, 1682.	3.5	37
33	CFAP70 Is a Novel Axoneme-Binding Protein That Localizes at the Base of the Outer Dynein Arm and Regulates Ciliary Motility. Cells, 2018, 7, 124.	4.1	36
34	Signaling through the primary cilium affects glial cell survival under a stressed environment. Glia, 2011, 59, 333-344.	4.9	35
35	Dynamic Changes in Ultrastructure of the Primary Cilium in Migrating Neuroblasts in the Postnatal Brain. Journal of Neuroscience, 2019, 39, 9967-9988.	3.6	35
36	Developmental changes in ciliary motility on choroid plexus epithelial cells during the perinatal period. Cytoskeleton, 2013, 70, 797-803.	2.0	33

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37	Hedgehog signaling regulates myelination in the peripheral nervous system through primary cilia. Differentiation, 2012, 83, S78-S85.	1.9	30
38	Solid probe assisted nanoelectrospray ionization mass spectrometry for biological tissue diagnostics. Analyst, The, 2012, 137, 4658.	3.5	29
39	Rapid automated diagnosis of primary hepatic tumour by mass spectrometry and artificial intelligence. Liver International, 2020, 40, 3117-3124.	3.9	27
40	Characterization of ciliary targeting sequence of rat melanin-concentrating hormone receptor 1. General and Comparative Endocrinology, 2013, 188, 159-165.	1.8	22
41	Construction of mass spectra database and diagnosis algorithm for head and neck squamous cell carcinoma. Oral Oncology, 2017, 75, 111-119.	1.5	22
42	Identification of lymphatic endothelium in cranial arachnoid granulation-like dural gap. Microscopy (Oxford, England), 2020, 69, 391-400.	1.5	22
43	A new rapid diagnostic system with ambient mass spectrometry and machine learning for colorectal liver metastasis. BMC Cancer, 2021, 21, 262.	2.6	18
44	Probe Electrospray Ionization (PESI) and Its Modified Versions: Dipping PESI (dPESI), Sheath-Flow PESI (sfPESI) and Adjustable sfPESI (ad-sfPESI). Mass Spectrometry, 2020, 9, A0092-A0092.	0.6	17
45	Detection of potential new biomarkers of atherosclerosis by probe electrospray ionization mass spectrometry. Metabolomics, 2018, 14, 38.	3.0	16
46	Estrogen and EGFR Pathways Regulate Notch Signaling in Opposing Directions for Multi-Ciliogenesis in the Fallopian Tube. Cells, 2019, 8, 933.	4.1	16
47	Biomolecular Analysis and Biological Tissue Diagnostics by Electrospray Ionization with a Metal Wire Inserted Gel-Loading Tip. Analytical Chemistry, 2014, 86, 987-992.	6.5	15
48	Involvement of FKBP6 in hepatitis C virus replication. Scientific Reports, 2015, 5, 16699.	3.3	14
49	Odontoblast differentiation is regulated by an interplay between primary cilia and the canonical Wnt pathway. Bone, 2021, 150, 116001.	2.9	13
50	Large-caliber persistent sciatic artery with aneurysm. Anatomical Science International, 2008, 83, 301-306.	1.0	12
51	In vivo endoscopic mass spectrometry using a moving string sampling probe. Analyst, The, 2017, 142, 2735-2740.	3.5	12
52	Direct analysis of lipids in mouse brain using electrospray droplet impact/SIMS. Journal of Mass Spectrometry, 2010, 45, 437-443.	1.6	11
53	Direct Electrospray Ionization Mass Spectrometric Profiling of Real-World Samples via a Solid Sampling Probe. Journal of the American Society for Mass Spectrometry, 2013, 24, 1612-1615.	2.8	11
54	Development of Non-proximate Probe Electrospray Ionization for Real-Time Analysis of Living Animal. Mass Spectrometry, 2015, 3, S0048-S0048.	0.6	11

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55	Sonic hedgehog enhances calcium oscillations in hippocampal astrocytes. Journal of Biological Chemistry, 2019, 294, 16034-16048.	3.4	11
56	9 + 0 and 9 + 2 cilia are randomly dispersed in the mouse node. Microscopy (Oxford, England), 2016, 65, 119-126.	1.5	10
57	Hepatitis B virus prevents excessive viral production via reduction of cell death-inducing DFF45-like effectors. Journal of General Virology, 2017, 98, 1762-1773.	2.9	10
58	Anatomy of the levator claviculae, with an overview and a literature survey. Anatomical Science International, 2012, 87, 203-211.	1.0	9
59	Desorption in Mass Spectrometry. Mass Spectrometry, 2017, 6, S0059-S0059.	0.6	9
60	Fallopian Tube Basal Stem Cells Reproducing the Epithelial Sheets In Vitroâ€”Stem Cell of Fallopian Epithelium. Biomolecules, 2020, 10, 1270.	4.0	9
61	Lipidome-based rapid diagnosis with machine learning for detection of TGF-Î² signalling activated area in head and neck cancer. British Journal of Cancer, 2020, 122, 995-1004.	6.4	9
62	Arima syndrome caused by CEP290 specific variant and accompanied with pathological cilium; clinical comparison with Joubert syndrome and its related diseases. Brain and Development, 2018, 40, 259-267.	1.1	8
63	Sample Preparation for Probe Electrospray Ionization Mass Spectrometry. Journal of Visualized Experiments, 2020, , .	0.3	8
64	Diagnostic significance of plasma lipid markers and machine learningâ€based algorithm for gastric cancer. Oncology Letters, 2021, 21, 405.	1.8	8
65	Direct and Real-Time Surface Analysis and Imaging of Biological Samples by Probe Electrospray. Journal of Surface Analysis (Online), 2009, 15, 279-282.	0.1	8
66	Using probe electrospray ionization mass spectrometry and machine learning for detecting pancreatic cancer with high performance. American Journal of Translational Research (discontinued), 2020, 12, 171-179.	0.0	8
67	Discovery of a Vertebrate-Specific Factor that Processes Flagellar Glycolytic Enolase during Motile Ciliogenesis. IScience, 2020, 23, 100992.	4.1	7
68	High-performance Collective Biomarker from Liquid Biopsy for Diagnosis of Pancreatic Cancer Based on Mass Spectrometry and Machine Learning. Journal of Cancer, 2021, 12, 7477-7487.	2.5	7
69	Real-time analysis of living animals and rapid screening of human fluid samples using remote sampling electrospray ionization mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2019, 172, 372-378.	2.8	6
70	Observation of the Ciliary Movement of Choroid Plexus Epithelial Cells Ex Vivo. Journal of Visualized Experiments, 2015, , e52991.	0.3	5
71	Randomization of Leftâ€“Right Asymmetry due to Loss of Nodal Cilia Generating Leftward Flow of Extraembryonic Fluid in Mice Lacking KIF3B Motor Protein. Cell, 1999, 99, 116.	28.9	4
72	Rare multiple combined anomaly of the vertebral vessels and bronchial artery. Anatomical Science International, 2008, 83, 267-272.	1.0	4

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73	Histochemical Analysis of Renal Dysplasia with Ureteral Atresia. Acta Histochemica Et Cytochemica, 2009, 42, 65-71.	1.6	4
74	Ambient mass spectrometry-based detection system for tumor cells in human blood. Translational Cancer Research, 2018, 7, 758-764.	1.0	4
75	Versatile Mass Spectrometry-Based Intraoperative Diagnosis of Liver Tumor in a Multiethnic Cohort. Applied Sciences (Switzerland), 2022, 12, 4244.	2.5	3
76	Untreated and dried sample analysis by solid probe assisted nanoelectrospray ionization mass spectrometry. Analytical Methods, 2015, 7, 2630-2635.	2.7	2
77	Ultrastructural evidence for an unusual mode of ciliogenesis in mouse multiciliated epithelia. Microscopy (Oxford, England), 2021, 70, 308-315.	1.5	2
78	Prediction of Pathological and Radiological Nature of Glioma by Mass Spectrometry Combined With Machine Learning. Neurosurgery Open, 2021, 2, .	0.2	2
79	New strategy for evaluating pancreatic tissue specimens from endoscopic ultrasoundâ€guided fine needle aspiration and surgery. JGH Open, 2021, 5, 953-958.	1.6	2
80	Secondary Ion Mass Spectrometry Analysis of Renal Cell Carcinoma with Electrospray Droplet Ion Beams. Mass Spectrometry, 2017, 6, A0053-A0053.	0.6	2
81	Towards Practical Endoscopic Mass Spectrometry. Mass Spectrometry, 2017, 6, S0070-S0070.	0.6	2
82	In vitro Time-lapse Imaging of Primary Cilium in Migrating Neuroblasts. Bio-protocol, 2020, 10, e3823.	0.4	2
83	Natural Herbal Estrogen-Mimetics (Phytoestrogens) Promote the Differentiation of Fallopian Tube Epithelium into Multi-Ciliated Cells via Estrogen Receptor Beta. Molecules, 2021, 26, 722.	3.8	1
84	Depletion of Ift88 in thymic epithelial cells affects thymic synapse and T-cell differentiation in aged mice. Anatomical Science International, 2022, , 1.	1.0	1
85	Physiological role of primary cilia in glial cells as a biosensor for the Hh signaling pathway. Neuroscience Research, 2009, 65, S88.	1.9	0
86	608 PROBE ELECTROSPRAY IONIZATION-MASS SPECTROMETRY AND BAYESIAN STATISTICS: A POTENTIAL OF NOVEL CANCER DIAGNOSTICS SYSTEM IN RENAL CELL CARCINOMA. Journal of Urology, 2013, 189, .	0.4	0
87	Transport Across the Choroid Plexus: How to Culture Choroid Plexus Cells and Establish a Functional Assay System. Neuromethods, 2019, , 163-173.	0.3	0
88	CO-01 Prediction of pathological and radiological nature of glioma by mass spectrometry combined with machine learning. Neuro-Oncology Advances, 2020, 2, ii6-ii6.	0.7	0
89	Hic gaudent mortui viventes docere. Anatomical Science International, 2022, 97, 233-234.	1.0	0