

# Ryosuke Takahashi

## List of Publications by Year in descending order

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115  
papers

4,965  
citations

136950

32  
h-index

102487

66  
g-index

125  
all docs

125  
docs citations

125  
times ranked

7885  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Alzheimer's Disease with iPSCs Reveals Stress Phenotypes Associated with Intracellular A $\beta$ and Differential Drug Responsiveness. <i>Cell Stem Cell</i> , 2013, 12, 487-496.	11.1	652
2	Human iPSC cell-derived dopaminergic neurons function in a primate Parkinson's disease model. <i>Nature</i> , 2017, 548, 592-596.	27.8	528
3	Drug Screening for ALS Using Patient-Specific Induced Pluripotent Stem Cells. <i>Science Translational Medicine</i> , 2012, 4, 145ra104.	12.4	465
4	Cerebral hypoperfusion accelerates cerebral amyloid angiopathy and promotes cortical microinfarcts. <i>Acta Neuropathologica</i> , 2012, 123, 381-394.	7.7	211
5	Inoculation of $\alpha$ -synuclein preformed fibrils into the mouse gastrointestinal tract induces Lewy body-like aggregates in the brainstem via the vagus nerve. <i>Molecular Neurodegeneration</i> , 2018, 13, 21.	10.8	206
6	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	182
7	P301S Mutant Human Tau Transgenic Mice Manifest Early Symptoms of Human Tauopathies with Dementia and Altered Sensorimotor Gating. <i>PLoS ONE</i> , 2011, 6, e21050.	2.5	160
8	Focal Transplantation of Human iPSC-Derived Glial-Rich Neural Progenitors Improves Lifespan of ALS Mice. <i>Stem Cell Reports</i> , 2014, 3, 242-249.	4.8	131
9	The Endoplasmic Reticulum Stress Sensor, ATF6 $\alpha$ , Protects against Neurotoxin-induced Dopaminergic Neuronal Death. <i>Journal of Biological Chemistry</i> , 2011, 286, 7947-7957.	3.4	119
10	The "when" and "where" of semantic coding in the anterior temporal lobe: Temporal representational similarity analysis of electrocorticogram data. <i>Cortex</i> , 2016, 79, 1-13.	2.4	88
11	Potential interactions between pericytes and oligodendrocyte precursor cells in perivascular regions of cerebral white matter. <i>Neuroscience Letters</i> , 2015, 597, 164-169.	2.1	87
12	Phosphodiesterase III inhibitor promotes drainage of cerebrovascular $\beta$ -amyloid. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 519-533.	3.7	82
13	Japanese multicenter database of healthy controls for [123I]FP-CIT SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1405-1416.	6.4	80
14	Angiogenic and Vasoprotective Effects of Adrenomedullin on Prevention of Cognitive Decline After Chronic Cerebral Hypoperfusion in Mice. <i>Stroke</i> , 2011, 42, 1122-1128.	2.0	75
15	Intracranially recorded ictal direct current shifts may precede high frequency oscillations in human epilepsy. <i>Clinical Neurophysiology</i> , 2015, 126, 47-59.	1.5	70
16	Value of in vivo $\alpha$ -synuclein deposits in Parkinson's disease: A systematic review and meta-analysis. <i>Movement Disorders</i> , 2019, 34, 1452-1463.	3.9	70
17	$\alpha$ -Synuclein BAC transgenic mice exhibit RBD-like behaviour and hyposmia: a prodromal Parkinson's disease model. <i>Brain</i> , 2020, 143, 249-265.	7.6	66
18	Long-term Effect of Regular Physical Activity and Exercise Habits in Patients With Early Parkinson Disease. <i>Neurology</i> , 2022, 98, .	1.1	66

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19	The HOIL-1L ligase modulates immune signalling and cell death via monoubiquitination of LUBAC. <i>Nature Cell Biology</i> , 2020, 22, 663-673.	10.3	63
20	Pathological Endogenous $\hat{\pm}$ -Synuclein Accumulation in Oligodendrocyte Precursor Cells Potentially Induces Inclusions in Multiple System Atrophy. <i>Stem Cell Reports</i> , 2018, 10, 356-365.	4.8	61
21	Viable Neuronopathic Gaucher Disease Model in Medaka ( <i>Oryzias latipes</i> ) Displays Axonal Accumulation of Alpha-Synuclein. <i>PLoS Genetics</i> , 2015, 11, e1005065.	3.5	60
22	The Parkinsonâ€™s Disease-Associated Protein Kinase LRRK2 Modulates Notch Signaling through the Endosomal Pathway. <i>PLoS Genetics</i> , 2015, 11, e1005503.	3.5	59
23	Involvement of Wnt/ $\hat{\pm}$ -catenin signaling in the development of neuropathic pain. <i>Neuroscience Research</i> , 2014, 79, 34-40.	1.9	53
24	Slow Progressive Accumulation of Oligodendroglial Alpha-Synuclein ( $\hat{\pm}$ -Syn) Pathology in Synthetic $\hat{\pm}$ -Syn Fibril-Induced Mouse Models of Synucleinopathy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019, 78, 877-890.	1.7	46
25	The participation of insulin-like growth factor-binding protein 3 released by astrocytes in the pathology of Alzheimerâ€™s disease. <i>Molecular Brain</i> , 2015, 8, 82.	2.6	44
26	Modeling Alexander disease with patient iPSCs reveals cellular and molecular pathology of astrocytes. <i>Acta Neuropathologica Communications</i> , 2016, 4, 69.	5.2	44
27	Insights into the pathogenesis of multiple system atrophy: focus on glial cytoplasmic inclusions. <i>Translational Neurodegeneration</i> , 2020, 9, 7.	8.0	39
28	Phenyldiazenyl benzothiazole derivatives as probes for in vivo imaging of neurofibrillary tangles in Alzheimer's disease brains. <i>MedChemComm</i> , 2011, 2, 596.	3.4	38
29	Breathingâ€™swallowing discoordination is associated with frequent exacerbations of COPD. <i>BMJ Open Respiratory Research</i> , 2017, 4, e000202.	3.0	38
30	Low-dose perampanel improves refractory cortical myoclonus by the dispersed and suppressed paroxysmal depolarization shifts in the sensorimotor cortex. <i>Clinical Neurophysiology</i> , 2019, 130, 1804-1812.	1.5	38
31	Increased cortical hyperexcitability and exaggerated myoclonus with aging in benign adult familial myoclonus epilepsy. <i>Movement Disorders</i> , 2011, 26, 1509-1514.	3.9	36
32	Innate immune adaptor TRIF deficiency accelerates disease progression of ALS mice with accumulation of aberrantly activated astrocytes. <i>Cell Death and Differentiation</i> , 2018, 25, 2130-2146.	11.2	36
33	Gradual cerebral hypoperfusion in spontaneously hypertensive rats induces slowly evolving white matter abnormalities and impairs working memory. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1592-1602.	4.3	35
34	$\hat{\pm}$ -Synuclein Spread from Olfactory Bulb Causes Hyposmia, Anxiety, and Memory Loss in SNCA Mice. <i>Movement Disorders</i> , 2021, 36, 2036-2047.	3.9	34
35	<sup>18</sup> F-Labeled Phenyldiazenyl Benzothiazole for in Vivo Imaging of Neurofibrillary Tangles in Alzheimer's Disease Brains. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 58-62.	2.8	33
36	<i>Atf6</i> deficiency suppresses microglial activation and ameliorates pathology of experimental autoimmune encephalomyelitis. <i>Journal of Neurochemistry</i> , 2016, 139, 1124-1137.	3.9	33

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37	Pericyte-derived bone morphogenetic protein 4 underlies white matter damage after chronic hypoperfusion. <i>Brain Pathology</i> , 2018, 28, 521-535.	4.1	33
38	Induced pluripotent stem cell-based Drug Repurposing for Amyotrophic lateral sclerosis Medicine (iDReAM) study: protocol for a phase I dose escalation study of bosutinib for amyotrophic lateral sclerosis patients. <i>BMJ Open</i> , 2019, 9, e033131.	1.9	32
39	Sex-specific differences in transcriptomic profiles and cellular characteristics of oligodendrocyte precursor cells. <i>Stem Cell Research</i> , 2020, 46, 101866.	0.7	31
40	A-Kinase Anchor Protein 12 Is Required for Oligodendrocyte Differentiation in Adult White Matter. <i>Stem Cells</i> , 2018, 36, 751-760.	3.2	27
41	Nationwide survey in Japan endorsed diagnostic criteria of benign adult familial myoclonus epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2018, 61, 14-22.	2.0	27
42	Differential roles of epigenetic regulators in the survival and differentiation of oligodendrocyte precursor cells. <i>Glia</i> , 2019, 67, 718-728.	4.9	26
43	Therapeutics potentiating microglial p21-Nrf2 axis can rescue neurodegeneration caused by neuroinflammation. <i>Science Advances</i> , 2020, 6, .	10.3	26
44	Structure-Activity Relationships and in Vivo Evaluation of Quinoxaline Derivatives for PET Imaging of $\beta$ -Amyloid Plaques. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 596-600.	2.8	25
45	Limited spread of pathology within the brainstem of $\alpha$ -synuclein BAC transgenic mice inoculated with preformed fibrils into the gastrointestinal tract. <i>Neuroscience Letters</i> , 2020, 716, 134651.	2.1	25
46	Randomized, Controlled Study of Opicapone in Japanese Parkinson's Patients with Motor Fluctuations. <i>Movement Disorders</i> , 2021, 36, 415-423.	3.9	24
47	Prediction Model of Amyotrophic Lateral Sclerosis by Deep Learning with Patient Induced Pluripotent Stem Cells. <i>Annals of Neurology</i> , 2021, 89, 1226-1233.	5.3	22
48	Perampanel Inhibits $\alpha$ -Synuclein Transmission in Parkinson's Disease Models. <i>Movement Disorders</i> , 2021, 36, 1554-1564.	3.9	21
49	Epileptic network of hypothalamic hamartoma: An EEG-fMRI study. <i>Epilepsy Research</i> , 2016, 125, 1-9.	1.6	20
50	Increased GADD34 in oligodendrocytes in Alzheimer's disease. <i>Neuroscience Letters</i> , 2015, 602, 50-55.	2.1	19
51	Down-Regulation of Astrocytic Kir4.1 Channels during the Audiogenic Epileptogenesis in Leucine-Rich Glioma-Inactivated 1 (Lgi1) Mutant Rats. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1013.	4.1	19
52	Failure of DNA double-strand break repair by tau mediates Alzheimer's disease pathology in vitro. <i>Communications Biology</i> , 2022, 5, 358.	4.4	19
53	Real-world pharmacological treatment patterns of patients with young-onset Parkinson's disease in Japan: a medical claims database analysis. <i>Journal of Neurology</i> , 2019, 266, 1944-1952.	3.6	17
54	Developmental Changes in Dendritic Spine Morphology in the Striatum and Their Alteration in an A53T $\alpha$ -Synuclein Transgenic Mouse Model of Parkinson's Disease. <i>ENeuro</i> , 2020, 7, ENEURO.0072-20.2020.	1.9	17

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55	Deletion of Atf6 $\pm$ enhances kainate-induced neuronal death in mice. <i>Neurochemistry International</i> , 2016, 92, 67-74.	3.8	16
56	Neuromelanin $\pm$ -Sensitive Magnetic Resonance Imaging Using <sc>DANTE</sc> Pulse. <i>Movement Disorders</i> , 2021, 36, 874-882.	3.9	16
57	Nasal vaccine delivery attenuates brain pathology and cognitive impairment in tauopathy model mice. <i>Npj Vaccines</i> , 2020, 5, 28.	6.0	15
58	A microtubule $\pm$ -LIZP1 association around tight junction promotes epithelial cell apical constriction. <i>EMBO Journal</i> , 2021, 40, e104712.	7.8	14
59	Benign adult familial myoclonus epilepsy is a progressive disorder: no longer idiopathic generalized epilepsy. <i>Epileptic Disorders</i> , 2016, 18, 67-72.	1.3	13
60	Utility of osteopontin in cerebrospinal fluid as a diagnostic marker for neuropsychiatric systemic lupus erythematosus. <i>Lupus</i> , 2019, 28, 414-422.	1.6	13
61	Thigh muscle MRI findings in myopathy associated with anti $\pm$ -mitochondrial antibody. <i>Muscle and Nerve</i> , 2020, 61, 81-87.	2.2	13
62	A Novel Three-Dimensional Culture System for Oligodendrocyte Precursor Cells. <i>Stem Cells and Development</i> , 2017, 26, 1078-1085.	2.1	12
63	Human entorhinal cortex electrical stimulation evoked short $\pm$ -latency potentials in the broad neocortical regions: Evidence from cortico $\pm$ -cortical evoked potential recordings. <i>Brain and Behavior</i> , 2019, 9, e01366.	2.2	12
64	BCAS1-positive immature oligodendrocytes are affected by the $\pm$ -synuclein-induced pathology of multiple system atrophy. <i>Acta Neuropathologica Communications</i> , 2020, 8, 120.	5.2	12
65	Immunohistochemical localization of apoptosome-related proteins in Lewy bodies in Parkinson $\times$ 3s disease and dementia with Lewy bodies. <i>Brain Research</i> , 2014, 1571, 39-48.	2.2	11
66	Evaluation of seizure foci and genes in the Lgi1 mutant rat. <i>Neuroscience Research</i> , 2014, 80, 69-75.	1.9	11
67	Long-term follow-up of cortical hyperexcitability in Japanese Unverricht $\pm$ -Lundborg disease. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2014, 23, 746-750.	2.0	11
68	Decreased levels of PDI and P5 in oligodendrocytes in Alzheimer's disease. <i>Neuropathology</i> , 2017, 37, 495-501.	1.2	11
69	Effect of fingolimod on oligodendrocyte maturation under prolonged cerebral hypoperfusion. <i>Brain Research</i> , 2019, 1720, 146294.	2.2	11
70	Impairment of Proteasome Function in Podocytes Leads to CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 597-613.	6.1	11
71	TDP-43 regulates cholesterol biosynthesis by inhibiting sterol regulatory element-binding protein 2. <i>Scientific Reports</i> , 2022, 12, 7988.	3.3	11
72	Degradation of Macromolecules during Preservation of Lyophilized Pathological Tissues. <i>Pathology Research and Practice</i> , 1995, 191, 420-426.	2.3	10

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73	Differential roles of NF-Y transcription factor in ER chaperone expression and neuronal maintenance in the CNS. <i>Scientific Reports</i> , 2016, 6, 34575.	3.3	10
74	Degradation of amyloid $\beta$ peptide by neprilysin expressed from Borna disease virus vector. <i>Microbiology and Immunology</i> , 2018, 62, 467-472.	1.4	10
75	Clinical characteristics of autoimmune disorders in the central nervous system associated with myasthenia gravis. <i>Journal of Neurology</i> , 2019, 266, 2743-2751.	3.6	10
76	We could predict good responders to vagus nerve stimulation: A surrogate marker by slow cortical potential shift. <i>Clinical Neurophysiology</i> , 2017, 128, 1583-1589.	1.5	9
77	Novel radioiodinated 1,3,4-oxadiazole derivatives with improved in vivo properties for SPECT imaging of $\beta$ -amyloid plaques. <i>MedChemComm</i> , 2014, 5, 82-85.	3.4	8
78	Use of a new generation of adaptive servo ventilation for sleep-disordered breathing in patients with multiple system atrophy. <i>BMJ Case Reports</i> , 2015, 2015, bcr2014206372.	0.5	8
79	FKBP12-immunopositive inclusions in patients with $\alpha$ -synucleinopathies. <i>Brain Research</i> , 2018, 1680, 39-45.	2.2	8
80	Inducible Rpt3, a Proteasome Component, Knockout in Adult Skeletal Muscle Results in Muscle Atrophy. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 859.	3.7	8
81	Decreased cortical excitability in Unverricht-Lundborg disease in the long-term follow-up: A consecutive SEP study. <i>Clinical Neurophysiology</i> , 2011, 122, 1617-1621.	1.5	7
82	Synaptic Vesicle Protein 2B Negatively Regulates the Amyloidogenic Processing of $A\beta$ PP as a Novel Interaction Partner of BACE1. <i>Journal of Alzheimer's Disease</i> , 2020, 75, 173-185.	2.6	7
83	A Biomarker for Benign Adult Familial Myoclonus Epilepsy: High-Frequency Activities in Giant Somatosensory Evoked Potentials. <i>Movement Disorders</i> , 2021, 36, 2335-2345.	3.9	7
84	Lower Circulating Lymphocyte Count Predicts $\mu$ -Related Cognitive Decline in Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 2969-2971.	3.9	7
85	Toshiharu (Toshi) Nagatsu: an appreciation. <i>Journal of Neural Transmission</i> , 2018, 125, 1-2.	2.8	6
86	From in vitro to in vivo reprogramming for neural transdifferentiation: An approach for CNS tissue remodeling using stem cell technology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1739-1751.	4.3	6
87	Long-term safety and efficacy of opicapone in Japanese Parkinson's patients with motor fluctuations. <i>Journal of Neural Transmission</i> , 2021, 128, 337-344.	2.8	6
88	Insertable inductively coupled volumetric coils for MR microscopy in a human 7T MR system. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1613-1620.	3.0	6
89	Reduction of Immunoreactivity Against the C-Terminal Region of the Intracellular $\alpha$ -Synuclein by Exogenous $\alpha$ -Synuclein Aggregates: Possibility of Conformational Changes. <i>Journal of Parkinson's Disease</i> , 2016, 6, 569-579.	2.8	5
90	A Role of Aging in the Progression of Cortical Excitability in Benign Adult Familial Myoclonus Epilepsy type 1 Patients. <i>Movement Disorders</i> , 2021, 36, 2446-2448.	3.9	5

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91	Transfection of wild-type TP53 induces differentiation in human gingival carcinoma cells. <i>European Journal of Cancer</i> , 1996, 32, 533-539.	2.8	4
92	Freeze Substitution and Freeze Drying for Stable, Long-Term Preservation of Cytologic Specimens for Immunostaining. <i>Acta Cytologica</i> , 1996, 40, 396-400.	1.3	4
93	Bilateral oculomotor nerve palsy in a case of anti-aquaporin-4 antibody-positive neuromyelitis optica spectrum disorder. <i>Journal of Clinical Neuroscience</i> , 2019, 66, 271-272.	1.5	4
94	Leukoencephalopathy with a case of heterozygous POLG mutation mimicking mitochondrial neurogastrointestinal encephalomyopathy (MNGIE). <i>Journal of Clinical Neuroscience</i> , 2019, 61, 302-304.	1.5	4
95	Susceptibility to erastin-induced ferroptosis decreases during maturation in a human oligodendrocyte cell line. <i>FEBS Open Bio</i> , 2020, 10, 1758-1764.	2.3	4
96	Ser46-Phosphorylated MARCKS Is a Marker of Neurite Degeneration at the Pre-aggregation Stage in PD/DLB Pathology. <i>ENeuro</i> , 2018, 5, ENEURO.0217-18.2018.	1.9	4
97	Monoclonal gammopathy of renal significance (MGRS)-related AL amyloidosis complicated by amyloid myopathy: a case report. <i>BMC Nephrology</i> , 2021, 22, 74.	1.8	3
98	Swallow-monitoring system with acoustic analysis for dysphagia. , 2014, , .		2
99	Î±-Synuclein Propagation Mouse Models of Parkinson's Disease. <i>Methods in Molecular Biology</i> , 2021, 2322, 119-130.	0.9	2
100	Role of p53 tumor suppressor gene and Fas/Apo-1 in induction of apoptosis and differentiation of cancer cells. <i>Leukemia</i> , 1997, 11 Suppl 3, 331-3.	7.2	2
101	High Mobility Group A1 Regulates Transcription Levels of Oligodendrocyte Marker Genes in Cultured Oligodendrocyte Precursor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2236.	4.1	2
102	Polygenic burden of Parkinson's disease risk stratifies the prognosis of isolated rapid-eye-movement disorder: A preliminary observational study. <i>Parkinsonism and Related Disorders</i> , 2022, 96, 52-56.	2.2	2
103	Disease prognostication and crisis management using artificial intelligence approach-analysis of Natural Killer cell activity, mental condition and support after disaster-. , 2010, , .		1
104	Laparoscopic abdominoperineal excision following revascularization of the iliac vessels â€“ a video vignette. <i>Colorectal Disease</i> , 2020, 22, 1200-1200.	1.4	1
105	6-Deoxyjacareubin, a natural compound preventing hypoxia-induced cell death, ameliorates neurodegeneration in a mouse model of familial amyotrophic lateral sclerosis. <i>Neuroscience Research</i> , 2021, 163, 43-51.	1.9	1
106	Impact of the catechol-O-methyltransferase Val158Met polymorphism on the pharmacokinetics of l-dopa and its metabolite 3-O-methyldopa in combination with entacapone. <i>Journal of Neural Transmission</i> , 2021, 128, 27-36.	2.8	1
107	Clinical Application of MPRAGE Wave Controlled Aliasing in Parallel Imaging (Wave-CAIPI): A Comparative Study with MPRAGE GRAPPA. <i>Magnetic Resonance in Medical Sciences</i> , 2021, , .	2.0	1
108	Author Response: Long-term Effect of Regular Physical Activity and Exercise Habits in Patients With Early Parkinson Disease. <i>Neurology</i> , 2022, 99, 133-134.	1.1	1

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109	A knowledge-based approach to identify aspiration by fuzzy logic. , 2014, , .		0
110	Two cases of delayed perforating artery infarction adjacent to intracranial hemorrhage. ENeurologicalSci, 2019, 17, 100209.	1.3	0
111	Long Time Constant May Endorses Sharp Waves and Spikes Than Sharp Transients in Scalp Electroencephalography: A Comparison of Both After-Slow Among Different Time Constant and High-Frequency Activity Analysis. Frontiers in Human Neuroscience, 2021, 15, 748893.	2.0	0
112	Cell-colony hybridization on a nitrocellulose filter to identify clones expressing a transfected gene. Human Cell, 1994, 7, 215-9.	2.7	0
113	Neural Sources of Vagus Nerve Stimulationâ€œInduced Slow Cortical Potentials. Neuromodulation, 2022, 25, 407-413.	0.8	0
114	Parallel gold enhancement of quantum dots 565/655 for double-labelling correlative light and electron microscopy on human autopsied samples. Scientific Reports, 2022, 12, 6113.	3.3	0
115	A case of amyotrophic lateral sclerosis presenting with rapid progression of respiratory deterioration due to severe obesity. Clinical Neurology, 2022, , .	0.1	0