Jong M Rho

List of Publications by Year
in descending order

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138 papers	8,474 citations	50244 46 h-index	48277 88 g-index
140 all docs	140 docs citations	140 times ranked	7052 citing authors

#	Article	IF	Citations
1	Optimal clinical management of children receiving the ketogenic diet: Recommendations of the International Ketogenic Diet Study Group. Epilepsia, 2009, 50, 304-317.	2.6	505
2	The neuroprotective properties of calorie restriction, the ketogenic diet, and ketone bodies. Brain Research Reviews, 2009, 59, 293-315.	9.1	463
3	Optimal clinical management of children receiving dietary therapies for epilepsy: Updated recommendations of the International Ketogenic Diet Study Group. Epilepsia Open, 2018, 3, 175-192.	1.3	412
4	Anticonvulsant Mechanisms of the Ketogenic Diet. Epilepsia, 2007, 48, 43-58.	2.6	411
5	The Ketogenic Diet as a Treatment Paradigm for Diverse Neurological Disorders. Frontiers in Pharmacology, 2012, 3, 59.	1.6	347
6	The ketogenic diet increases mitochondrial uncoupling protein levels and activity. Annals of Neurology, 2004, 55, 576-580.	2.8	345
7	Mechanisms of Action of Antiseizure Drugs and the Ketogenic Diet. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a022780.	2.9	233
8	The Ketogenic Diet Is an Effective Adjuvant to Radiation Therapy for the Treatment of Malignant Glioma. PLoS ONE, 2012, 7, e36197.	1.1	221
9	Ketogenic diet modifies the gut microbiota in a murine model of autism spectrum disorder. Molecular Autism, 2016, 7, 37.	2.6	204
10	Inflammation-Mediated Memory Dysfunction and Effects of a Ketogenic Diet in a Murine Model of Multiple Sclerosis. PLoS ONE, 2012, 7, e35476.	1.1	202
11	Ketogenic diets, mitochondria, and neurological diseases. Journal of Lipid Research, 2014, 55, 2211-2228.	2.0	190
12	Ketone bodies are protective against oxidative stress in neocortical neurons. Journal of Neurochemistry, 2007, 101, 1316-1326.	2.1	170
13	The Pharmacologic Basis of Antiepileptic Drug Action. Epilepsia, 1999, 40, 1471-1483.	2.6	162
14	How does the ketogenic diet induce anti-seizure effects?. Neuroscience Letters, 2017, 637, 4-10.	1.0	158
15	Acetoacetate, Acetone, and Dibenzylamine (a Contaminant in l-(+)-Î²-Hydroxybutyrate) Exhibit Direct Anticonvulsant Actions in Vivo. Epilepsia, 2002, 43, 358-361.	2.6	153
16	Fasting is neuroprotective following traumatic brain injury. Journal of Neuroscience Research, 2008, 86, 1812-1822.	1.3	152
17	Ketone bodies mediate antiseizure effects through mitochondrial permeability transition. Annals of Neurology, 2015, 78, 77-87.	2.8	151
18	Ketogenic Diets: An Update for Child Neurologists. Journal of Child Neurology, 2009, 24, 979-988.	0.7	139

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19	Ketogenic Diet Improves Core Symptoms of Autism in BTBR Mice. PLoS ONE, 2013, 8, e65021.	1.1	136
20	Calorie Restriction and Ketogenic Diet Diminish Neuronal Excitability in Rat Dentate Gyrus In Vivo. Epilepsia, 2003, 44, 752-760.	2.6	127
21	Do ketone bodies mediate the anti-seizure effects of the ketogenic diet?. Neuropharmacology, 2018, 133, 233-241.	2.0	111
22	Developmental Seizure Susceptibility of Kv1.1 Potassium Channel Knockout Mice. Developmental Neuroscience, 1999, 21, 320-327.	1.0	106
23	Metabolic Dysfunction Underlying Autism Spectrum Disorder and Potential Treatment Approaches. Frontiers in Molecular Neuroscience, 2017, 10, 34.	1.4	96
24	Molecular Biology and Ontogeny of Glutamate Receptors in the Mammalian Central Nervous System. Journal of Child Neurology, 2004, 19, 343-360.	0.7	93
25	Age-dependent differences in flurothyl seizure sensitivity in mice treated with a ketogenic diet. Epilepsy Research, 1999, 37, 233-240.	0.8	91
26	Lamotrigine-Induced Tic Disorder: Report of Five Pediatric Cases. Epilepsia, 2000, 41, 862-867.	2.6	91
27	Ketogenic Diets: Evidence for Short- and Long-term Efficacy. Neurotherapeutics, 2009, 6, 406-414.	2.1	90
28	Hypothalamic Hamartoma: Basic Mechanisms of Intrinsic Epileptogenesis. Seminars in Pediatric Neurology, 2007, 14, 51-59.	1.0	89
29	Ketones prevent synaptic dysfunction induced by mitochondrial respiratory complex inhibitors. Journal of Neurochemistry, 2010, 114, 130-141.	2.1	89
30	Norepinephrine is required for the anticonvulsant effect of the ketogenic diet. Developmental Brain Research, 2001, 129, 211-214.	2.1	84
31	Finding a better drug for epilepsy: Antiepileptogenesis targets. Epilepsia, 2012, 53, 1868-1876.	2.6	82
32	The Ketogenic Diet Modifies Social and Metabolic Alterations Identified in the Prenatal Valproic Acid Model of Autism Spectrum Disorder. Developmental Neuroscience, 2014, 36, 371-380.	1.0	77
33	Enhanced glycolytic metabolism supports transmigration of brain-infiltrating macrophages in multiple sclerosis. Journal of Clinical Investigation, 2019, 129, 3277-3292.	3.9	75
34	Electrophysiological properties of human hypothalamic hamartomas. Annals of Neurology, 2005, 58, 371-382.	2.8	73
35	Ketogenic diet treatment abolishes seizure periodicity and improves diurnal rhythmicity in epileptic Kcna1â€null mice. Epilepsia, 2009, 50, 2027-2034.	2.6	73
36	A cDNA microarray analysis of gene expression profiles in rat hippocampus following a ketogenic diet. Molecular Brain Research, 2004, 129, 80-87.	2.5	69

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37	Genotype-phenotype correlations in SCN8A-related disorders reveal prognostic and therapeutic implications. Brain, 2022, 145, 2991-3009.	3.7	69
38	The metabolic basis of epilepsy. Nature Reviews Neurology, 2022, 18, 333-347.	4.9	68
39	GABA_A receptorâ€mediated activation of Lâ€type calcium channels induces neuronal excitation in surgically resected human hypothalamic hamartomas. Epilepsia, 2008, 49, 861-871.	2.6	67
40	Ketone Bodies as Anti-Seizure Agents. Neurochemical Research, 2017, 42, 2011-2018.	1.6	67
41	Oxidative impairment of hippocampal longâ€term potentiation involves activation of protein phosphatase 2A and is prevented by ketone bodies. Journal of Neuroscience Research, 2008, 86, 3322-3330.	1.3	59
42	Loss of the Kv1.1 potassium channel promotes pathologic sharp waves and high frequency oscillations in in vitro hippocampal slices. Neurobiology of Disease, 2013, 54, 68-81.	2.1	57
43	Brief history of antiâ€seizure drug development. Epilepsia Open, 2018, 3, 114-119.	1.3	55
44	A novel metabolism-based phenotypic drug discovery platform in zebrafish uncovers HDACs 1 and 3 as a potential combined anti-seizure drug target. Brain, 2018, 141, 744-761.	3.7	54
45	Molecular Biology and Ontogeny of Î³-Aminobutyric Acid (GABA) Receptors in the Mammalian Central Nervous System. Journal of Child Neurology, 2003, 18, 39-48.	0.7	53
46	Ketogenic diet treatment increases longevity in Kcna1â€null mice, a model of sudden unexpected death in epilepsy. Epilepsia, 2016, 57, e178-82.	2.6	53
47	Metabolism and epilepsy: Ketogenic diets as a homeostatic link. Brain Research, 2019, 1703, 26-30.	1.1	50
48	Epigenetics and epilepsy prevention: The therapeutic potential of adenosine and metabolic therapies. Neuropharmacology, 2020, 167, 107741.	2.0	50
49	Anticonvulsant effects of the selective melatonin receptor agonist ramelteon. Epilepsy and Behavior, 2009, 16, 52-57.	0.9	49
50	Ketones Prevent Oxidative Impairment of Hippocampal Synaptic Integrity through KATP Channels. PLoS ONE, 2015, 10, e0119316.	1.1	48
51	Metabolomic Modeling To Monitor Host Responsiveness to Gut Microbiota Manipulation in the BTBR^{T+tf/j} Mouse. Journal of Proteome Research, 2016, 15, 1143-1150.	1.8	43
52	The ketogenic diet: What has science taught us?. Epilepsy Research, 2012, 100, 210-217.	0.8	42
53	The relationship between <scp>d</scp>â€betaâ€hydroxybutyrate blood concentrations and seizure control in children treated with the ketogenic diet for medically intractable epilepsy. Epilepsia Open, 2017, 2, 317-321.	1.3	42
54	Dendritic overgrowth and elevated ERK signaling during neonatal development in a mouse model of autism. PLoS ONE, 2017, 12, e0179409.	1.1	41

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55	Pediatric stroke. Child's Nervous System, 2011, 27, 1375-1390.	0.6	40
56	Clinical Experience With Zonisamide Monotherapy and Adjunctive Therapy in Children With Epilepsy at a Tertiary Care Referral Center. Journal of Child Neurology, 2005, 20, 212-219.	0.7	39
57	Ketone Administration for Seizure Disorders: History and Rationale for Ketone Esters and Metabolic Alternatives. Frontiers in Neuroscience, 2019, 13, 1041.	1.4	39
58	Pharmacokinetics and central accumulation of delta-9-tetrahydrocannabinol (THC) and its bioactive metabolites are influenced by route of administration and sex in rats. Scientific Reports, 2021, 11, 23990.	1.6	39
59	ER-stress mobilization of death-associated protein kinase-1â€“dependent xenophagy counteracts mitochondria stressâ€“induced epithelial barrier dysfunction. Journal of Biological Chemistry, 2018, 293, 3073-3087.	1.6	35
60	Efficacy of Intravenous Immunoglobulin in a Cohort of Children With Drug-Resistant Epilepsy. Pediatric Neurology, 2015, 52, 509-516.	1.0	34
61	Clinical studies and antiâ€inflammatory mechanisms of treatments. Epilepsia, 2017, 58, 69-82.	2.6	34
62	Genetic modifications associated with ketogenic diet treatment in the BTBR^{T+Tf/J} mouse model of autism spectrum disorder. Autism Research, 2017, 10, 456-471.	2.1	34
63	Aberrant Mitochondrial Morphology and Function in the BTBR Mouse Model of Autism Is Improved by Two Weeks of Ketogenic Diet. International Journal of Molecular Sciences, 2020, 21, 3266.	1.8	34
64	Altered circadian rhythms and oscillation of clock genes and sirtuin 1 in a model of sudden unexpected death in epilepsy. Epilepsia, 2018, 59, 1527-1539.	2.6	32
65	Tissue Specific Impacts of a Ketogenic Diet on Mitochondrial Dynamics in the BTBRT+tf/j Mouse. Frontiers in Physiology, 2016, 7, 654.	1.3	30
66	2-Deoxyglucose and Beta-Hydroxybutyrate: Metabolic Agents for Seizure Control. Frontiers in Cellular Neuroscience, 2019, 13, 172.	1.8	30
67	Ketogenic diet restores aberrant cortical motor maps and excitation-to-inhibition imbalance in the BTBR mouse model of autism spectrum disorder. Behavioural Brain Research, 2016, 304, 67-70.	1.2	29
68	Bicarbonate contributes to GABAA receptor-mediated neuronal excitation in surgically resected human hypothalamic hamartomas. Epilepsy Research, 2009, 83, 89-93.	0.8	26
69	Voltage-Dependent Block of N-Methyl-d-Aspartate Receptors by the Novel Anticonvulsant Dibenzylamine, a Bioactive Constituent of l-(+)-Î²-Hydroxybutyrate. Epilepsia, 2003, 44, 1274-1279.	2.6	25
70	Inhibition of Lactate Dehydrogenase to Treat Epilepsy. New England Journal of Medicine, 2015, 373, 187-189.	13.9	25
71	Seizure modulation by the gut microbiota and tryptophan-kynurenine metabolism in an animal model of infantile spasms. EBioMedicine, 2022, 76, 103833.	2.7	25
72	Differential effects of duration of sleep fragmentation on spatial learning and synaptic plasticity in pubertal mice. Brain Research, 2015, 1615, 116-128.	1.1	24

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73	Precocious myelination in a mouse model of autism. Translational Psychiatry, 2019, 9, 251.	2.4	24
74	Metabolic epilepsies amenable to ketogenic therapies: Indications, contraindications, and underlying mechanisms. Journal of Inherited Metabolic Disease, 2021, 44, 42-53.	1.7	24
75	Electrophysiological Properties and Subunit Composition of GABAA Receptors in Patients With Gelastic Seizures and Hypothalamic Hamartoma. Journal of Neurophysiology, 2007, 98, 5-15.	0.9	23
76	Metabolic Framework for the Improvement of Autism Spectrum Disorders by a Modified Ketogenic Diet: A Pilot Study. Journal of Proteome Research, 2020, 19, 382-390.	1.8	23
77	Mechanisms of ketogenic diet action. Epilepsia, 2010, 51, 85-85.	2.6	22
78	Glycolytic inhibition: A novel approach toward controlling neuronal excitability and seizures. Epilepsia Open, 2018, 3, 191-197.	1.3	20
79	Comorbid epilepsy in autism spectrum disorder: Implications of postnatal inflammation for brain excitability. Epilepsia, 2018, 59, 1316-1326.	2.6	20
80	L-Type calcium channel blockade reduces network activity in human epileptic hypothalamic hamartoma tissue. Epilepsia, 2011, 52, 531-540.	2.6	19
81	Ketogenic diet in the treatment of seizures associated with hypothalamic hamartomas. Epilepsy Research, 2011, 94, 218-221.	0.8	19
82	Ndel1 and Reelin Maintain Postnatal CA1 Hippocampus Integrity. Journal of Neuroscience, 2016, 36, 6538-6552.	1.7	18
83	Prebiotic, Probiotic, and Synbiotic Consumption Alter Behavioral Variables and Intestinal Permeability and Microbiota in BTBR Mice. Microorganisms, 2021, 9, 1833.	1.6	17
84	Reversible Lamotrigine-Induced Neurobehavioral Disturbances in Children With Epilepsy. Journal of Child Neurology, 2010, 25, 182-187.	0.7	16
85	Stoichiometric expression of mtHsp40 and mtHsp70 modulates mitochondrial morphology and cristae structure via Opa1_L cleavage. Molecular Biology of the Cell, 2015, 26, 2156-2167.	0.9	16
86	Probiotics counteract hepatic steatosis caused by ketogenic diet and upregulate AMPK signaling in a model of infantile epilepsy. EBioMedicine, 2022, 76, 103838.	2.7	16
87	Intravenous Immunoglobulin as Adjunctive Therapy for Juvenile Spasms. Journal of Child Neurology, 2003, 18, 379-382.	0.7	14
88	Atypical visual processing in a mouse model of autism. Scientific Reports, 2020, 10, 12390.	1.6	14
89	The link between brain acidosis, breathing and seizures: a novel mechanism of action for the ketogenic diet in a model of infantile spasms. Brain Communications, 2021, 3, fcab189.	1.5	14
90	Disruption of visual circuit formation and refinement in a mouse model of autism. Autism Research, 2017, 10, 212-223.	2.1	13

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91	Single-center experience with Beta-propeller protein-associated neurodegeneration (BPAN); expanding the phenotypic spectrum. Molecular Genetics and Metabolism Reports, 2019, 20, 100483.	0.4	13
92	Ictal EEG Patterns in Band Heterotopia. Epilepsia, 2002, 43, 403-407.	2.6	12
93	Clinical and electrographic features of epileptic spasms persisting beyond the second year of life. Epilepsia, 2002, 43, 623-30.	2.6	12
94	Ketogenic diet leads to O-GlcNAc modification in the BTBRT+tf/j mouse model of autism. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2274-2281.	1.8	11
95	Need for new review of article on ketogenic dietary regimes for cancerÂpatients. Medical Oncology, 2017, 34, 108.	1.2	11
96	Ketogenic diet-induced extension of longevity in epileptic Kcna1 -null mice is influenced by gender and age at treatment onset. Epilepsy Research, 2018, 140, 53-55.	0.8	11
97	Targeted gut microbiota manipulation attenuates seizures in a model of infantile spasms syndrome. JCI Insight, 2022, 7, .	2.3	11
98	Adrenocorticotropic hormone protects learning and memory function in epileptic Kcna1 -null mice. Neuroscience Letters, 2017, 645, 14-18.	1.0	10
99	Metabolism-based drug discovery in zebrafish: An emerging strategy to uncover new anti-seizure therapies. Neuropharmacology, 2020, 167, 107988.	2.0	10
100	A ketogenic diet affects brain volume and metabolome in juvenile mice. NeuroImage, 2021, 244, 118542.	2.1	10
101	Selective Probiotic Treatment Positively Modulates the Microbiotaâ€“Gutâ€“Brain Axis in the BTBR Mouse Model of Autism. Brain Sciences, 2022, 12, 781.	1.1	10
102	The Ketogenic Diet: Stoking the Powerhouse of the Cell. Epilepsy Currents, 2007, 7, 58-60.	0.4	9
103	A â€œHappyâ€•Toddler Presenting With Sudden, Life-Threatening Seizures. Seminars in Pediatric Neurology, 2010, 17, 35-38.	1.0	9
104	The New Ketone Alphabet Soup: BHB, HCA, and HDAC. Epilepsy Currents, 2014, 14, 355-357.	0.4	9
105	Abnormal oxidative metabolism in the cuprizone mouse model of demyelination: An in vivo NIRS-MRI study. NeuroImage, 2022, 250, 118935.	2.1	9
106	Age-Dependent Differences in Flurothyl-Induced c-fos and c-jun mRNA Expression in the Mouse Brain. Developmental Neuroscience, 2002, 24, 294-299.	1.0	8
107	Position Statement on the Use of Medical Cannabis for the Treatment of Epilepsy in Canada. Canadian Journal of Neurological Sciences, 2019, 46, 645-652.	0.3	8
108	Inchworming: A Novel Motor Stereotypy in the BTBR T⁺ Itpr3^{tf}J Mouse Model of Autism. Journal of Visualized Experiments, 2014, , .	0.2	7

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109	The ketogenic diet raises brain oxygen levels, attenuates postictal hypoxia, and protects against learning impairments. Neurobiology of Disease, 2021, 154, 105335.	2.1	7
110	Impaired Motor Control in Patients With Benign Focal Epilepsy of Childhood. Journal of Child Neurology, 2006, 21, 157-160.	0.7	6
111	Unilateral Foot Drop as an Initial Presentation of a Brain Tumor in a Child. Journal of Child Neurology, 2014, 29, 955-958.	0.7	6
112	Reelin Improves Cognition and Extends the Lifespan of Mutant Ndel1 Mice with Postnatal CA1 Hippocampus Deterioration. Cerebral Cortex, 2020, 30, 4964-4978.	1.6	6
113	Metabolismâ€based therapies for epilepsy: new directions for future cures. Annals of Clinical and Translational Neurology, 2021, 8, 1730-1737.	1.7	6
114	Gene-Targeted Therapies in Pediatric Neurology: Challenges and Opportunities in Diagnosis and Delivery. Pediatric Neurology, 2021, 125, 53-57.	1.0	6
115	Behavioral Deficits in Mice with Postnatal Disruption ofNdel1in Forebrain Excitatory Neurons: Implications for Epilepsy and Neuropsychiatric Disorders. Cerebral Cortex Communications, 2021, 2, tgaa096.	0.7	6
116	Gut-based manipulations spur hippocampal mitochondrial bioenergetics in a model of pediatric epilepsy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166446.	1.8	6
117	Carisbamate blockade of Tâ€type voltageâ€gated calcium channels. Epilepsia, 2017, 58, 617-626.	2.6	5
118	Highlights From the Annual Meeting of the American Epilepsy Society 2018. Epilepsy Currents, 2019, 19, 152-158.	0.4	5
119	Ketogenic dietâ€“mediated seizure reduction preserves CA1 cell numbers in epileptic Kcna1â€null mice: An unbiased stereological assessment. Epilepsia, 2021, 62, e123-e128.	2.6	5
120	Molecular Ontogeny of Major Neurotransmitter Receptor Systems in the Mammalian Central Nervous System: Norepinephrine, Dopamine, Serotonin, Acetylcholine, and Glycine. Journal of Child Neurology, 2001, 16, 271.	0.7	5
121	Lack of long-term histopathologic changes in brain and skeletal muscle of mice treated with a ketogenic diet. Journal of Child Neurology, 2004, 19, 555-7.	0.7	5
122	Electrophysiological characterization of a mitochondrial inner membrane chloride channel in rat brain. FEBS Letters, 2018, 592, 1545-1553.	1.3	4
123	Postnatal Role of the Cytoskeleton in Adult Epileptogenesis. Cerebral Cortex Communications, 2020, 1, tgaa024.	0.7	4
124	Pediatric Neurology Research in the Twenty-First Century: Status, Challenges, and Future Directions Postâ€“COVID-19. Pediatric Neurology, 2020, 113, 2-12.	1.0	4
125	Circadian Responses to Light in the BTBR Mouse. Journal of Biological Rhythms, 2022, 37, 498-515.	1.4	4
126	A team science approach to discover novel targets for infantile spasms (IS). Epilepsia Open, 2021, 6, 49-61.	1.3	3

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127	Creation and implementation of an electronic health record note for quality improvement in pediatric epilepsy: Practical considerations and lessons learned. Epilepsia Open, 2021, 6, 345-358.	1.3	3
128	How Does Altered Metabolism Lead to Seizure Control? Partially Filling the Knowledge Gap. Epilepsy Currents, 2010, 10, 159-161.	0.4	2
129	Sweets Are BAD for Seizures. Epilepsy Currents, 2012, 12, 218-219.	0.4	2
130	Infantile Epileptic Encephalopathy With Multiple Genetic Mutations: How Important are Variants of Undetermined Significance?. Seminars in Pediatric Neurology, 2018, 26, 33-36.	1.0	2
131	Rodent Sleep Assessment with a Trainable Video-based Approach. , 2019, , .		2
132	Substantia(ting) Ketone Body Effects on Neuronal Excitability. Epilepsy Currents, 2007, 7, 142-144.	0.4	1
133	Another Look at Early GABAergic Neurotransmission: Maybe It's Not So Exciting after All!. Epilepsy Currents, 2010, 10, 128-130.	0.4	1
134	Addition of Prebiotics to the Ketogenic Diet Improves Metabolic Profile but Does Not Affect Seizures in a Rodent Model of Infantile Spasms Syndrome. Nutrients, 2022, 14, 2210.	1.7	1
135	Can Reducing Sugar Retard Kindling?. Epilepsy Currents, 2008, 8, 83-84.	0.4	0
136	Arresting a Seizure by Dropping a Little Acid. Epilepsy Currents, 2009, 9, 55-56.	0.4	0
137	Adenosine: A Fundamental Factor Formed from Fatty Feasts for Fighting Fits?. Epilepsy Currents, 2012, 12, 19-21.	0.4	0
138	â€œTinkle Tinkle Little Girl, How We Wonder Why You Canâ€™tâ€¦ An Unusual AIDP-like Syndrome in a Toddler. Canadian Journal of Neurological Sciences, 2015, 42, 274-277.	0.3	0