

# Timothy A Simeone

## List of Publications by Year in descending order

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34  
papers

1,487  
citations

394421

19  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1883  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ketone bodies are protective against oxidative stress in neocortical neurons. <i>Journal of Neurochemistry</i> , 2007, 101, 1316-1326.	3.9	170
2	Ketone bodies mediate antiseizure effects through mitochondrial permeability transition. <i>Annals of Neurology</i> , 2015, 78, 77-87.	5.3	151
3	Do ketone bodies mediate the anti-seizure effects of the ketogenic diet?. <i>Neuropharmacology</i> , 2018, 133, 233-241.	4.1	111
4	Hypothalamic Hamartoma: Basic Mechanisms of Intrinsic Epileptogenesis. <i>Seminars in Pediatric Neurology</i> , 2007, 14, 51-59.	2.0	89
5	Mechanisms of seizure-induced $\alpha$ -transcriptional channelopathy <sup>TM</sup> of hyperpolarization-activated cyclic nucleotide gated (HCN) channels. <i>Neurobiology of Disease</i> , 2008, 29, 297-305.	4.4	82
6	Regulation of brain PPAR $\gamma$ 2 contributes to ketogenic diet anti-seizure efficacy. <i>Experimental Neurology</i> , 2017, 287, 54-64.	4.1	70
7	GABA <sub>A</sub> receptor-mediated activation of L-type calcium channels induces neuronal excitation in surgically resected human hypothalamic hamartomas. <i>Epilepsia</i> , 2008, 49, 861-871.	5.1	67
8	Ketone Bodies as Anti-Seizure Agents. <i>Neurochemical Research</i> , 2017, 42, 2011-2018.	3.3	67
9	Modulation by Topiramate of AMPA and Kainate Mediated Calcium Influx in Cultured Cerebral Cortical, Hippocampal and Cerebellar Neurons. <i>Neurochemical Research</i> , 2004, 29, 275-282.	3.3	64
10	Orexin Receptor Antagonism Improves Sleep and Reduces Seizures in <i>Kcna1</i> -null Mice. <i>Sleep</i> , 2016, 39, 357-368.	1.1	61
11	Subunit selectivity of topiramate modulation of heteromeric GABAA receptors. <i>Neuropharmacology</i> , 2006, 50, 845-857.	4.1	59
12	Loss of the Kv1.1 potassium channel promotes pathologic sharp waves and high frequency oscillations in in vitro hippocampal slices. <i>Neurobiology of Disease</i> , 2013, 54, 68-81.	4.4	57
13	Targeting deficiencies in mitochondrial respiratory complex I and functional uncoupling exerts anti-seizure effects in a genetic model of temporal lobe epilepsy and in a model of acute temporal lobe seizures. <i>Experimental Neurology</i> , 2014, 251, 84-90.	4.1	56
14	Molecular Biology and Ontogeny of $\gamma$ -Aminobutyric Acid (GABA) Receptors in the Mammalian Central Nervous System. <i>Journal of Child Neurology</i> , 2003, 18, 39-48.	1.4	53
15	Ketogenic diet treatment increases longevity in <i>Kcna1</i> -null mice, a model of sudden unexpected death in epilepsy. <i>Epilepsia</i> , 2016, 57, e178-82.	5.1	53
16	Respiratory dysfunction progresses with age in <i>Kcna1</i> -null mice, a model of sudden unexpected death in epilepsy. <i>Epilepsia</i> , 2018, 59, 345-357.	5.1	52
17	In vivo ketogenic diet treatment attenuates pathologic sharp waves and high frequency oscillations in in vitro hippocampal slices from epileptic <i>K<sub>v</sub>1.1</i> knockout mice. <i>Epilepsia</i> , 2014, 55, e44-e49.	5.1	39
18	Accumulation of rest deficiency precedes sudden death of epileptic Kv1.1 knockout mice, a model of sudden unexpected death in epilepsy. <i>Epilepsia</i> , 2018, 59, 92-105.	5.1	25

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19	Ketogenic diet regulates the antioxidant catalase via the transcription factor PPAR $\gamma$ <sup>3</sup> . <i>Epilepsy Research</i> , 2018, 147, 71-74.	1.6	24
20	L-Type calcium channel blockade reduces network activity in human epileptic hypothalamic hamartoma tissue. <i>Epilepsia</i> , 2011, 52, 531-540.	5.1	19
21	Progressive cardiorespiratory dysfunction in Kv1.1 knockout mice may provide temporal biomarkers of pending sudden unexpected death in epilepsy (SUDEP): The contribution of orexin. <i>Epilepsia</i> , 2020, 61, 572-588.	5.1	19
22	Topiramate modulation of $\alpha$ <sup>1</sup> - and $\alpha$ <sup>3</sup> -homomeric GABA <sub>A</sub> receptors. <i>Pharmacological Research</i> , 2011, 64, 44-52.	7.1	17
23	Synergistic protection against acute flurothyl-induced seizures by adjuvant treatment of the ketogenic diet with the type 2 diabetes drug pioglitazone. <i>Epilepsia</i> , 2017, 58, 1440-1450.	5.1	17
24	Felbamate is a subunit selective modulator of recombinant $\beta$ <sup>3</sup> -aminobutyric acid type A receptors expressed in <i>Xenopus</i> oocytes. <i>European Journal of Pharmacology</i> , 2006, 552, 31-35.	3.5	11
25	Adenosine has two faces: Regionally dichotomous adenosine tone in a model of epilepsy with comorbid sleep disorders. <i>Neurobiology of Disease</i> , 2018, 114, 45-52.	4.4	9
26	Pharmacoresponsiveness of spontaneous recurrent seizures and the comorbid sleep disorder of epileptic <i>Kcna1</i> -null mice. <i>European Journal of Pharmacology</i> , 2021, 913, 174656.	3.5	9
27	Changes in lipid profiles of epileptic mouse model. <i>Metabolomics</i> , 2020, 16, 106.	3.0	7
28	Ascorbic Acid Reduces Neurotransmission, Synaptic Plasticity, and Spontaneous Hippocampal Rhythms in In Vitro Slices. <i>Nutrients</i> , 2022, 14, 613.	4.1	7
29	cAMP-Dependent protein kinase A activity modulates topiramate potentiation of GABA <sub>A</sub> receptors. <i>Epilepsy Research</i> , 2011, 96, 176-179.	1.6	5
30	Ketogenic diet-mediated seizure reduction preserves CA1 cell numbers in epileptic <i>Kcna1</i> -null mice: An unbiased stereological assessment. <i>Epilepsia</i> , 2021, 62, e123-e128.	5.1	5
31	Aberrant energy metabolism and redox balance in seizure onset zones of epileptic patients. <i>Journal of Proteomics</i> , 2020, 223, 103812.	2.4	4
32	Carbamazepine Reduces Sharp Wave-Ripple Complexes and Exerts Synapse-Specific Inhibition of Neurotransmission in Ex Vivo Hippocampal Slices. <i>Brain Sciences</i> , 2021, 11, 787.	2.3	4
33	Functional MRI Correlates of Carbon Dioxide Chemosensing in Persons With Epilepsy. <i>Frontiers in Neurology</i> , 0, 13, .	2.4	3
34	Mechanisms of Antiepileptic Drug Action. , 2010, , 123-141.		1