Bryony Ariya Nayagam

List of Publications by Year
in descending order

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45 papers	1,463 citations	331259 21 h-index	329751 37 g-index
46 all docs	46 docs citations	46 times ranked	1897 citing authors

#	Article	IF	Citations
1	The spiral ganglion: Connecting the peripheral and central auditory systems. Hearing Research, 2011, 278, 2-20.	0.9	167
2	Goldâ€Nanorodâ€Assisted Nearâ€Infrared Stimulation of Primary Auditory Neurons. Advanced Healthcare Materials, 2014, 3, 1862-1868.	3.9	120
3	Fate of Embryonic Stem Cells Transplanted into the Deafened Mammalian Cochlea. Cell Transplantation, 2006, 15, 369-380.	1.2	111
4	Enriched retinal ganglion cells derived from human embryonic stem cells. Scientific Reports, 2016, 6, 30552.	1.6	97
5	Survival of Partially Differentiated Mouse Embryonic Stem Cells in the Scala Media of the Guinea Pig Cochlea. JARO - Journal of the Association for Research in Otolaryngology, 2005, 6, 341-354.	0.9	83
6	ASK1 inhibition: a therapeutic strategy with multi-system benefits. Journal of Molecular Medicine, 2020, 98, 335-348.	1.7	75
7	Hair Cell Regeneration after ATOH1 Gene Therapy in the Cochlea of Profoundly Deaf Adult Guinea Pigs. PLoS ONE, 2014, 9, e102077.	1.1	71
8	Auditory hair cell explant co-cultures promote the differentiation of stem cells into bipolar neurons. Experimental Cell Research, 2007, 313, 232-243.	1.2	69
9	Neurotrophin Gene Therapy for Sustained Neural Preservation after Deafness. PLoS ONE, 2012, 7, e52338.	1.1	46
10	Concise Review: The Potential of Stem Cells for Auditory Neuron Generation and Replacement. Stem Cells, 2007, 25, 2685-2694.	1.4	45
11	A protocol for cryoembedding the adult guinea pig cochlea for fluorescence immunohistology. Journal of Neuroscience Methods, 2009, 176, 144-151.	1.3	41
12	Directing Human Induced Pluripotent Stem Cells into a Neurosensory Lineage for Auditory Neuron Replacement. BioResearch Open Access, 2014, 3, 162-175.	2.6	38
13	Phenotypic and Functional Characterization of Peripheral Sensory Neurons derived from Human Embryonic Stem Cells. Scientific Reports, 2018, 8, 603.	1.6	38
14	Electrochemical and biological performance of chronically stimulated conductive hydrogel electrodes. Journal of Neural Engineering, 2020, 17, 026018.	1.8	36
15	The Convergence of Cochlear Implantation with Induced Pluripotent Stem Cell Therapy. Stem Cell Reviews and Reports, 2012, 8, 741-754.	5.6	34
16	An In Vitro Model of Developmental Synaptogenesis Using Cocultures of Human Neural Progenitors and Cochlear Explants. Stem Cells and Development, 2013, 22, 901-912.	1.1	34
17	Generation of Neural Organoids from Human Embryonic Stem Cells Using the Rotary Cell Culture System: Effects of Microgravity on Neural Progenitor Cell Fate. Stem Cells and Development, 2018, 27, 848-857.	1.1	33
18	Generation of Vestibular Tissue-Like Organoids From Human Pluripotent Stem Cells Using the Rotary Cell Culture System. Frontiers in Cell and Developmental Biology, 2019, 7, 25.	1.8	30

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19	Functional Characterization of Friedreich Ataxia iPS-Derived Neuronal Progenitors and Their Integration in the Adult Brain. PLoS ONE, 2014, 9, e101718.	1.1	27
20	Combined application of brain-derived neurotrophic factor and neurotrophin-3 and its impact on spiral ganglion neuron firing properties and hyperpolarization-activated currents. Hearing Research, 2012, 291, 1-14.	0.9	25
21	Electrophysiological properties of neurosensory progenitors derived from human embryonic stem cells. Stem Cell Research, 2014, 12, 241-249.	0.3	24
22	Electrochemical and biological characterization of thin-film platinum-iridium alloy electrode coatings: a chronic in vivo study. Journal of Neural Engineering, 2020, 17, 036012.	1.8	22
23	Hydrogel limits stem cell dispersal in the deaf cochlea: implications for cochlear implants. Journal of Neural Engineering, 2012, 9, 065001.	1.8	20
24	Innervation of Cochlear Hair Cells by Human Induced Pluripotent Stem Cell-Derived NeuronsIn Vitro. Stem Cells International, 2016, 2016, 1-10.	1.2	19
25	Challenges for stem cells to functionally repair the damaged auditory nerve. Expert Opinion on Biological Therapy, 2013, 13, 85-101.	1.4	17
26	Organotypic Culture of Neonatal Murine Inner Ear Explants. Frontiers in Cellular Neuroscience, 2019, 13, 170.	1.8	16
27	Thermal damage threshold of neurons during infrared stimulation. Biomedical Optics Express, 2020, 11, 2224.	1.5	16
28	Viability of Long-Term Gene Therapy in the Cochlea. Scientific Reports, 2014, 4, 4733.	1.6	15
29	Graphene foam as a biocompatible scaffold for culturing human neurons. Royal Society Open Science, 2018, 5, 171364.	1.1	14
30	A comparison of in vitro treatments for directing stem cells toward a sensory neural fate. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2012, 33, 37-46.	0.6	13
31	Treating hearing disorders with cell and gene therapy. Journal of Neural Engineering, 2014, 11, 065001.	1.8	13
32	Organotypic Cocultures of Human Pluripotent Stem Cell Derived-Neurons with Mammalian Inner Ear Hair Cells and Cochlear Nucleus Slices. Stem Cells International, 2019, 2019, 1-14.	1.2	9
33	Whole Cell Patch Clamp for Investigating the Mechanisms of Infrared Neural Stimulation. Journal of Visualized Experiments, 2013, , .	0.2	7
34	Time-dependent activity of primary auditory neurons in the presence of neurotrophins and antibiotics. Hearing Research, 2017, 350, 122-132.	0.9	6
35	Review: Using diffusion-weighted magnetic resonance imaging techniques to explore the microstructure and connectivity of subcortical white matter tracts in the human auditory system. Hearing Research, 2019, 377, 1-11.	0.9	6
36	Response of primary auditory neurons to stimulation with infrared light in vitro. Journal of Neural Engineering, 2021, 18, 046003.	1.8	6

#	Article	IF	Citations
37	A Comparison of Electrical Stimulation Levels Across Ears for Children With Sequential Bilateral Cochlear Implants. Ear and Hearing, 2019, 40, 1174-1186.	1.0	5
38	Fiber-Specific Changes in White Matter Microstructure in Individuals With X-Linked Auditory Neuropathy. Ear and Hearing, 2020, 41, 1703-1714.	1.0	5
39	Stem Cells for the Replacement of Auditory Neurons. Springer Handbook of Auditory Research, 2016, , 263-286.	0.3	3
40	ASK1 is a novel molecular target for preventing aminoglycoside-induced hair cell death. Journal of Molecular Medicine, 2022, 100, 797-813.	1.7	3
41	Human stem cells ameliorate auditory evoked responses in a model of neuropathy. Stem Cell Research and Therapy, 2012, 3, 44.	2.4	2
42	Expression and Physiology of Voltage-Gated Sodium Channels in Developing Human Inner Ear. Frontiers in Neuroscience, 2021, 15, 733291.	1.4	2
43	The Auditory System. Series on Bioengineering and Biomedical Engineering, 2017, , 167-191.	0.1	0
44	Inner ear organoids derived from human pluripotent stem cells using rotary cell culture. IBRO Reports, 2019, 6, S546-S547.	0.3	0
45	Cell and Gene Therapies for the Treatment of Hearing Disorders. , 2015, , 949-964.		0