Donata Oertel

List of Publications by Year in descending order

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37 papers	2,988 citations	201385 27 h-index	344852 36 g-index
38 all docs	38 docs citations	38 times ranked	1171 citing authors

#	Article	IF	Citations
1	Local targets of Tâ€stellate cells in the ventral cochlear nucleus. Journal of Comparative Neurology, 2022, 530, 2820-2834.	0.9	2
2	The Ventral Cochlear Nucleus. , 2020, , 517-532.		2
3	Nitric Oxide-Mediated Plasticity of Interconnections Between T-Stellate cells of the Ventral Cochlear Nucleus Generate Positive Feedback and Constitute a Central Gain Control in the Auditory System. Journal of Neuroscience, 2019, 39, 6095-6107.	1.7	20
4	Deleting the HCN1 Subunit of Hyperpolarization-Activated Ion Channels in Mice Impairs Acoustic Startle Reflexes, Gap Detection, and Spatial Localization. JARO - Journal of the Association for Research in Otolaryngology, 2017, 18, 427-440.	0.9	11
5	Genetic perturbations suggest a role of the resting potential in regulating the expression of the ion channels of the KCNA and HCN families in octopus cells of the ventral cochlear nucleus. Hearing Research, 2017, 345, 57-68.	0.9	13
6	Cellular Computations Underlying Detection of Gaps in Sounds and Lateralizing Sound Sources. Trends in Neurosciences, 2017, 40, 613-624.	4.2	13
7	Synaptic transmission between end bulbs of Held and bushy cells in the cochlear nucleus of mice with a mutation in Otoferlin. Journal of Neurophysiology, 2014, 112, 3173-3188.	0.9	25
8	Mutation of Npr2 Leads to Blurred Tonotopic Organization of Central Auditory Circuits in Mice. PLoS Genetics, 2014, 10, e1004823.	1.5	36
9	Generating Synchrony from the Asynchronous: Compensation for Cochlear Traveling Wave Delays by the Dendrites of Individual Brainstem Neurons. Journal of Neuroscience, 2012, 32, 9301-9311.	1.7	51
10	Synaptic integration in dendrites: exceptional need for speed. Journal of Physiology, 2012, 590, 5563-5569.	1.3	85
11	The multiple functions of T stellate/multipolar/chopper cells in the ventral cochlear nucleus. Hearing Research, 2011, 276, 61-69.	0.9	99
12	The magnitudes of hyperpolarization-activated and low-voltage-activated potassium currents co-vary in neurons of the ventral cochlear nucleus. Journal of Neurophysiology, 2011, 106, 630-640.	0.9	51
13	GluA4 sustains sensing of sounds through stable, speedy, sumptuous, spineless synapses. Journal of Physiology, 2011, 589, 4089-4090.	1.3	1
14	Auditory Nerve Fibers Excite Targets Through Synapses That Vary in Convergence, Strength, and Short-Term Plasticity. Journal of Neurophysiology, 2010, 104, 2308-2320.	0.9	98
15	A team of potassium channels tunes up auditory neurons. Journal of Physiology, 2009, 587, 2417-2418.	1.3	9
16	Connections and synaptic function in the posteroventral cochlear nucleus of deaf jerker mice. Journal of Comparative Neurology, 2008, 510, 297-308.	0.9	40
17	Voltage-Sensitive Conductances of Bushy Cells of the Mammalian Ventral Cochlear Nucleus. Journal of Neurophysiology, 2007, 97, 3961-3975.	0.9	89
18	Voltage-activated Calcium Currents in Octopus Cells of the Mouse Cochlear Nucleus. JARO - Journal of the Association for Research in Otolaryngology, 2007, 8, 509-521.	0.9	24

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19	Rate thresholds determine the precision of temporal integration in principal cells of the ventral cochlear nucleus. Hearing Research, 2006, 216-217, 52-63.	0.9	87
20	Hyperpolarization-Activated Currents Regulate Excitability in Stellate Cells of the Mammalian Ventral Cochlear Nucleus. Journal of Neurophysiology, 2006, 95, 76-87.	0.9	55
21	What's a cerebellar circuit doing in the auditory system?. Trends in Neurosciences, 2004, 27, 104-110.	4.2	302
22	Octopus Cells of the Mammalian Ventral Cochlear Nucleus Sense the Rate of Depolarization. Journal of Neurophysiology, 2002, 87, 2262-2270.	0.9	103
23	Potassium Currents in Octopus Cells of the Mammalian Cochlear Nucleus. Journal of Neurophysiology, 2001, 86, 2299-2311.	0.9	128
24	Cholinergic Modulation of Stellate Cells in the Mammalian Ventral Cochlear Nucleus. Journal of Neuroscience, 2001, 21, 7372-7383.	1.7	115
25	Correlation of AMPA Receptor Subunit Composition with Synaptic Input in the Mammalian Cochlear Nuclei. Journal of Neuroscience, 2001, 21, 7428-7437.	1.7	116
26	Hyperpolarization-Activated, Mixed-Cation Current (I _h) in Octopus Cells of the Mammalian Cochlear Nucleus. Journal of Neurophysiology, 2000, 84, 806-817.	0.9	127
27	Time Course and Permeation of Synaptic AMPA Receptors in Cochlear Nuclear Neurons Correlate with Input. Journal of Neuroscience, 1999, 19, 8721-8729.	1.7	143
28	Synaptic Inputs to Stellate Cells in the Ventral Cochlear Nucleus. Journal of Neurophysiology, 1998, 79, 51-63.	0.9	148
29	Physiological Identification of the Targets of Cartwheel Cells in the Dorsal Cochlear Nucleus. Journal of Neurophysiology, 1997, 78, 248-260.	0.9	94
30	In vitro modulation of somatic glycine-like immunoreactivity in presumed glycinergic neurons. Journal of Comparative Neurology, 1994, 339, 311-327.	0.9	57
31	Tuberculoventral neurons project to the multipolar cell area but not to the octopus cell area of the posteroventral cochlear nucleus. Journal of Comparative Neurology, 1991, 313, 457-468.	0.9	66
32	Morphology and physiology of cells in slice preparations of the posteroventral cochlear nucleus of mice. Journal of Comparative Neurology, 1990, 295, 136-154.	0.9	233
33	Morphology and physiology of cells in slice preparations of the dorsal cochlear nucleus of mice. Journal of Comparative Neurology, 1989, 283, 228-247.	0.9	177
34	Tonotopic projection from the dorsal to the anteroventral cochlear nucleus of mice. Journal of Comparative Neurology, 1988, 268, 389-399.	0.9	132
35	Maturation of synapses and electrical properties of cells in the cochlear nuclei. Hearing Research, 1987, 30, 99-110.	0.9	105
36	Use of brain slices in the study of the auditory system: Spatial and temporal summation of synaptic inputs in cells in the anteroventral cochlear nucleus of the mouse. Journal of the Acoustical Society of America, 1985, 78, 328-333.	0.5	100

#	Article	IF	Citations
37	Transformation of signals by interneurones in the barnacle's visual pathway. Journal of Physiology, 1981, 311, 127-146.	1.3	30