Donata Oertel

List of Publications by Year
in descending order

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	What's a cerebellar circuit doing in the auditory system?. Trends in Neurosciences, 2004, 27, 104-110.	4.2	302
2	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
3	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
4	Synaptic Inputs to Stellate Cells in the Ventral Cochlear Nucleus. Journal of Neurophysiology, 1998, 79, 51-63.	0.9	148
5	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
6	Tonotopic projection from the dorsal to the anteroventral cochlear nucleus of mice. Journal of Comparative Neurology, 1988, 268, 389-399.	0.9	132
7	Potassium Currents in Octopus Cells of the Mammalian Cochlear Nucleus. Journal of Neurophysiology, 2001, 86, 2299-2311.	0.9	128
8	Hyperpolarization-Activated, Mixed-Cation Current (<i>I</i> _h) in Octopus Cells of the Mammalian Cochlear Nucleus. Journal of Neurophysiology, 2000, 84, 806-817.	0.9	127
9	Correlation of AMPA Receptor Subunit Composition with Synaptic Input in the Mammalian Cochlear Nuclei. Journal of Neuroscience, 2001, 21, 7428-7437.	1.7	116
10	Cholinergic Modulation of Stellate Cells in the Mammalian Ventral Cochlear Nucleus. Journal of Neuroscience, 2001, 21, 7372-7383.	1.7	115
11	Maturation of synapses and electrical properties of cells in the cochlear nuclei. Hearing Research, 1987, 30, 99-110.	0.9	105
12	Octopus Cells of the Mammalian Ventral Cochlear Nucleus Sense the Rate of Depolarization. Journal of Neurophysiology, 2002, 87, 2262-2270.	0.9	103
13	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
14	The multiple functions of T stellate/multipolar/chopper cells in the ventral cochlear nucleus. Hearing Research, 2011, 276, 61-69.	0.9	99
15	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
16	Physiological Identification of the Targets of Cartwheel Cells in the Dorsal Cochlear Nucleus. Journal of Neurophysiology, 1997, 78, 248-260.	0.9	94
17	Voltage-Sensitive Conductances of Bushy Cells of the Mammalian Ventral Cochlear Nucleus. Journal of Neurophysiology, 2007, 97, 3961-3975.	0.9	89
18	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

#	Article	IF	Citations
19	Synaptic integration in dendrites: exceptional need for speed. Journal of Physiology, 2012, 590, 5563-5569.	1.3	85
20	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
21	In vitro modulation of somatic glycine-like immunoreactivity in presumed glycinergic neurons. Journal of Comparative Neurology, 1994, 339, 311-327.	0.9	57
22	Hyperpolarization-Activated Currents Regulate Excitability in Stellate Cells of the Mammalian Ventral Cochlear Nucleus. Journal of Neurophysiology, 2006, 95, 76-87.	0.9	55
23	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
24	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
25	Connections and synaptic function in the posteroventral cochlear nucleus of deaf <i>jerker</i> mice. Journal of Comparative Neurology, 2008, 510, 297-308.	0.9	40
26	Mutation of Npr2 Leads to Blurred Tonotopic Organization of Central Auditory Circuits in Mice. PLoS Genetics, 2014, 10, e1004823.	1.5	36
27	Transformation of signals by interneurones in the barnacle's visual pathway. Journal of Physiology, 1981, 311, 127-146.	1.3	30
28	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
29	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
30	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
31	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
32	Cellular Computations Underlying Detection of Gaps in Sounds and Lateralizing Sound Sources. Trends in Neurosciences, 2017, 40, 613-624.	4.2	13
33	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
34	A team of potassium channels tunes up auditory neurons. Journal of Physiology, 2009, 587, 2417-2418.	1.3	9
35	The Ventral Cochlear Nucleus. , 2020, , 517-532.		2
36	Local targets of Tâ€stellate cells in the ventral cochlear nucleus. Journal of Comparative Neurology, 2022, 530, 2820-2834.	0.9	2

#	Article	IF	Citations
37	GluA4 sustains sensing of sounds through stable, speedy, sumptuous, spineless synapses. Journal of Physiology, 2011, 589, 4089-4090.	1.3	1