

# David K Ryugo

## List of Publications by Year in descending order

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130  
papers

8,642  
citations

34105

52  
h-index

51608

86  
g-index

132  
all docs

132  
docs citations

132  
times ranked

3820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Widespread expression of Huntington's disease gene (IT15) protein product. <i>Neuron</i> , 1995, 14, 1065-1074.	8.1	485
2	Hair-Cell Innervation by Spiral Ganglion Cells in Adult Cats. <i>Science</i> , 1982, 217, 175-177.	12.6	280
3	The central projections of intracellularly labeled auditory nerve fibers in cats. <i>Journal of Comparative Neurology</i> , 1984, 229, 432-450.	1.6	222
4	Morphology of primary axosomatic endings in the anteroventral cochlear nucleus of the cat: A study of the endbulbs of Held. <i>Journal of Comparative Neurology</i> , 1982, 210, 239-257.	1.6	190
5	Intracellular marking of physiologically characterized cells in the ventral cochlear nucleus of the cat. <i>Journal of Comparative Neurology</i> , 1984, 225, 167-186.	1.6	190
6	Mossy fiber projections from the cuneate nucleus to the cochlear nucleus in the rat. <i>Journal of Comparative Neurology</i> , 1996, 365, 159-172.	1.6	176
7	Brainstem branches from olivocochlear axons in cats and rodents. <i>Journal of Comparative Neurology</i> , 1988, 278, 591-603.	1.6	167
8	The spiral ganglion: Connecting the peripheral and central auditory systems. <i>Hearing Research</i> , 2011, 278, 2-20.	2.0	167
9	Anomalous organization of thalamocortical projections consequent to vibrissae removal in the newborn rat and mouse. <i>Brain Research</i> , 1976, 104, 309-315.	2.2	159
10	Synaptic connections of the auditory nerve in cats: Relationship between endbulbs of held and spherical bushy cells. <i>Journal of Comparative Neurology</i> , 1991, 305, 35-48.	1.6	156
11	Effects of sensory deprivation on the developing mouse olfactory system: a light and electron microscopic, morphometric analysis. <i>Journal of Neuroscience</i> , 1984, 4, 638-653.	3.6	153
12	Central trajectories of type II spiral ganglion neurons. <i>Journal of Comparative Neurology</i> , 1988, 278, 581-590.	1.6	150
13	Hair cell innervation by spiral ganglion neurons in the mouse. <i>Journal of Comparative Neurology</i> , 1987, 255, 560-570.	1.6	148
14	Differential plasticity of morphologically distinct neuron populations in the medial geniculate body of the cat during classical conditioning. <i>Behavioral Biology</i> , 1978, 22, 275-301.	2.2	146
15	The central projections of intracellularly labeled auditory nerve fibers in cats: An analysis of terminal morphology. <i>Journal of Comparative Neurology</i> , 1986, 249, 261-278.	1.6	138
16	Ultrastructural analysis of primary endings in deaf white cats: Morphologic alterations in endbulbs of held. , 1997, 385, 230-244.		137
17	Synaptic alterations at inner hair cells precede spiral ganglion cell loss in aging C57BL/6J mice. <i>Hearing Research</i> , 2006, 221, 104-118.	2.0	136
18	Human neural stem cell grafts in the spinal cord of SOD1 transgenic rats: Differentiation and structural integration into the segmental motor circuitry. <i>Journal of Comparative Neurology</i> , 2009, 514, 297-309.	1.6	136

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19	Progressive Cerebellar, Auditory, and Esophageal Dysfunction Caused by Targeted Disruption of the <i>frizzled4</i> Gene. <i>Journal of Neuroscience</i> , 2001, 21, 4761-4771.	3.6	135
20	Projections from the ventral cochlear nucleus to the dorsal cochlear nucleus in rats. <i>Journal of Comparative Neurology</i> , 1997, 385, 245-264.	1.6	132
21	Differential telencephalic projections of the medial and ventral divisions of the medial geniculate body of the rat. <i>Brain Research</i> , 1974, 82, 173-177.	2.2	130
22	Restoration of Auditory Nerve Synapses in Cats by Cochlear Implants. <i>Science</i> , 2005, 310, 1490-1492.	12.6	129
23	Projections from auditory cortex to the cochlear nucleus in rats: Synapses on granule cell dendrites. <i>Journal of Comparative Neurology</i> , 1996, 371, 311-324.		127
24	Differential afferent projections to the inferior colliculus from the cochlear nucleus in the albino mouse. <i>Brain Research</i> , 1981, 210, 342-349.	2.2	126
25	Primary innervation of the avian and mammalian cochlear nucleus. <i>Brain Research Bulletin</i> , 2003, 60, 435-456.	3.0	121
26	Endbulbs of held and spherical bushy cells in cats: Morphological correlates with physiological properties. <i>Journal of Comparative Neurology</i> , 1989, 280, 553-562.	1.6	113
27	Physiology and morphology of complex spiking neurons in the guinea pig dorsal cochlear nucleus. <i>Journal of Comparative Neurology</i> , 1994, 348, 261-276.	1.6	113
28	Pyramidal cells in primary auditory cortex project to cochlear nucleus in rat. <i>Brain Research</i> , 1996, 706, 97-102.	2.2	113
29	The dorsal cochlear nucleus of the mouse: A light microscopic analysis of neurons that project to the inferior colliculus. <i>Journal of Comparative Neurology</i> , 1985, 242, 381-396.	1.6	104
30	Glycine immunoreactivity of multipolar neurons in the ventral cochlear nucleus which project to the dorsal cochlear nucleus. <i>Journal of Comparative Neurology</i> , 1999, 408, 515-531.	1.6	100
31	Corticofugal modulation of the medial geniculate body. <i>Experimental Neurology</i> , 1976, 51, 377-391.	4.1	99
32	Single unit recordings in the auditory nerve of congenitally deaf white cats: Morphological correlates in the cochlea and cochlear nucleus. <i>Journal of Comparative Neurology</i> , 1998, 397, 532-548.	1.6	97
33	Neurofilament antibodies and spiral ganglion neurons of the mammalian cochlea. <i>Journal of Comparative Neurology</i> , 1991, 306, 393-408.	1.6	91
34	Projections from the spinal trigeminal nucleus to the cochlear nucleus in the rat. <i>Journal of Comparative Neurology</i> , 2005, 484, 191-205.	1.6	86
35	Hearing loss caused by progressive degeneration of cochlear hair cells in mice deficient for the <i>Barhl1</i> homeobox gene. <i>Development (Cambridge)</i> , 2002, 129, 3523-3532.	2.5	86
36	Morphological changes in the cochlear nucleus of congenitally deaf white cats. <i>Brain Research</i> , 1996, 736, 315-328.	2.2	85

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37	Development of Primary Axosomatic Endings in the Anteroventral Cochlear Nucleus of Mice. JARO - Journal of the Association for Research in Otolaryngology, 2000, 1, 103-119.	1.8	85
38	Ultrastructural study of the granule cell domain of the cochlear nucleus in rats: Mossy fiber endings and their targets. , 1996, 369, 345-360.		84
39	Activity-related features of synapse morphology: A study of endbulbs of Held. , 1996, 365, 141-158.		81
40	Central projections of intracellularly labeled auditory nerve fibers in cats: Morphometric correlations with physiological properties. Journal of Comparative Neurology, 1988, 271, 130-142.	1.6	79
41	Neural Coding of Interaural Time Differences with Bilateral Cochlear Implants: Effects of Congenital Deafness. Journal of Neuroscience, 2010, 30, 14068-14079.	3.6	79
42	Multimodal inputs to the granule cell domain of the cochlear nucleus. Experimental Brain Research, 2003, 153, 477-485.	1.5	77
43	The source of corticocollicular and corticobulbar projections in area Te1 of the rat. Experimental Brain Research, 2003, 153, 461-466.	1.5	76
44	The projections of intracellularly labeled auditory nerve fibers to the dorsal cochlear nucleus of cats. Journal of Comparative Neurology, 1993, 329, 20-35.	1.6	75
45	Neuronal inositol 1,4,5-trisphosphate receptor localized to the plasma membrane of olfactory cilia. Neuroscience, 1993, 57, 339-352.	2.3	75
46	Four Independent Mutations in the Feline Fibroblast Growth Factor 5 Gene Determine the Long-Haired Phenotype in Domestic Cats. Journal of Heredity, 2007, 98, 555-566.	2.4	71
47	Increased spine density in auditory cortex following visual or somatic deafferentation. Brain Research, 1975, 90, 143-146.	2.2	70
48	The Auditory Nerve: Peripheral Innervation, Cell Body Morphology, and Central Projections. Springer Handbook of Auditory Research, 1992, , 23-65.	0.7	70
49	Projections of the second cervical dorsal root ganglion to the cochlear nucleus in rats. Journal of Comparative Neurology, 2006, 496, 335-348.	1.6	68
50	Frequency organization of the dorsal cochlear nucleus in cats. Journal of Comparative Neurology, 1993, 329, 36-52.	1.6	67
51	The effects of congenital deafness on auditory nerve synapses and globular bushy cells in cats. Hearing Research, 2000, 147, 160-174.	2.0	66
52	Endogenous Retrovirus Insertion in the <i>KIT</i> Oncogene Determines <i>White</i> and <i>White spotting</i> in Domestic Cats. G3: Genes, Genomes, Genetics, 2014, 4, 1881-1891.	1.8	66
53	Efferent synapses return to inner hair cells in the aging cochlea. Neurobiology of Aging, 2012, 33, 2892-2902.	3.1	62
54	Immunocytochemical localization of the mGluR1? metabotropic glutamate receptor in the dorsal cochlear nucleus. , 1996, 364, 729-745.		58

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55	The cellular origin of corticofugal projections to the superior olivary complex in the rat. <i>Brain Research</i> , 2002, 925, 28-41.	2.2	56
56	3D model of frequency representation in the cochlear nucleus of the CBA/J mouse. <i>Journal of Comparative Neurology</i> , 2013, 521, 1510-1532.	1.6	56
57	Axonal pathways to the lateral superior olive labeled with biotinylated dextran amine injections in the dorsal cochlear nucleus of rats. <i>Journal of Comparative Neurology</i> , 2003, 461, 452-465.	1.6	55
58	Descending Connections of Auditory Cortex to the Midbrain and Brain Stem. , 2011, , 189-208.		55
59	Differential effect of enucleation on two populations of layer V pyramidal cells. <i>Brain Research</i> , 1975, 88, 554-559.	2.2	54
60	Projections of the pontine nuclei to the cochlear nucleus in rats. <i>Journal of Comparative Neurology</i> , 2001, 436, 290-303.	1.6	54
61	A monoclonal antibody labels type II neurons of the spiral ganglion. <i>Brain Research</i> , 1986, 383, 327-332.	2.2	53
62	Effects of congenital deafness in the cochlear nuclei of Shaker-2 mice: An ultrastructural analysis of synapse morphology in the endbulbs of Held. <i>Journal of Neurocytology</i> , 2003, 32, 229-243.	1.5	53
63	Long-Term, Stable Differentiation of Human Embryonic Stem Cell-Derived Neural Precursors Grafted into the Adult Mammalian Neostriatum. <i>Stem Cells</i> , 2009, 27, 2414-2426.	3.2	52
64	Central projections of cochlear nerve fibers in the alligator lizard. <i>Journal of Comparative Neurology</i> , 1990, 295, 530-547.	1.6	50
65	Progress in Low-LET Heavy Particle Therapy: Intracranial and Paracranial Tumors and Uveal Melanomas. <i>Radiation Research</i> , 1985, 104, S219.	1.5	47
66	Structural and functional classes of multipolar cells in the ventral cochlear nucleus. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 331-344.	2.0	46
67	Diabetes mellitus and hearing loss: A review. <i>Ageing Research Reviews</i> , 2021, 71, 101423.	10.9	46
68	Morphological Characterization of Bushy Cells and Their Inputs in the Laboratory Mouse (Mus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.5	46
69	Revealing the molecular layer of the primate dorsal cochlear nucleus. <i>Neuroscience</i> , 2008, 154, 99-113.	2.3	45
70	Inositol 1,4,5-trisphosphate receptors: Immunocytochemical localization in the dorsal cochlear nucleus. <i>Journal of Comparative Neurology</i> , 1995, 358, 102-118.	1.6	42
71	Synaptic morphology and the influence of auditory experience. <i>Hearing Research</i> , 2011, 279, 118-130.	2.0	42
72	Bilateral effects of unilateral cochlear implantation in congenitally deaf cats. <i>Journal of Comparative Neurology</i> , 2010, 518, 2382-2404.	1.6	41

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73	Unmyelinated axons of the auditory nerve in cats. <i>Journal of Comparative Neurology</i> , 1991, 308, 209-223.	1.6	40
74	Projections from auditory cortex to cochlear nucleus: A comparative analysis of rat and mouse. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 397-408.	2.0	40
75	A modified Golgi staining protocol for use in the human brain stem and cerebellum. <i>Journal of Neuroscience Methods</i> , 2006, 150, 90-95.	2.5	39
76	Projections of low spontaneous rate, high threshold auditory nerve fibers to the small cell cap of the cochlear nucleus in cats. <i>Neuroscience</i> , 2008, 154, 114-126.	2.3	39
77	Postnatal development of a large auditory nerve terminal: The endbulb of Held in cats. <i>Hearing Research</i> , 2006, 216-217, 100-115.	2.0	38
78	Synaptic plasticity after chemical deafening and electrical stimulation of the auditory nerve in cats. <i>Journal of Comparative Neurology</i> , 2010, 518, 1046-1063.	1.6	38
79	Changes in pyramidal cell density consequent to vibrissae removal in the newborn rat. <i>Brain Research</i> , 1975, 96, 82-87.	2.2	37
80	Two types of afferent terminals innervate cochlear inner hair cells in C57BL/6J mice. <i>Brain Research</i> , 2004, 1016, 182-194.	2.2	37
81	Synaptic plasticity in the medial superior olive of hearing, deaf, and cochlear-implanted cats. <i>Journal of Comparative Neurology</i> , 2012, 520, 2202-2217.	1.6	37
82	Commissural glycinergic inhibition of bushy and stellate cells in the anteroventral cochlear nucleus. <i>NeuroReport</i> , 2002, 13, 555-558.	1.2	35
83	Discharge properties of identified cochlear nucleus neurons and auditory nerve fibers in response to repetitive electrical stimulation of the auditory nerve. <i>Experimental Brain Research</i> , 2003, 153, 452-460.	1.5	33
84	Separate forms of pathology in the cochlea of congenitally deaf white cats. <i>Hearing Research</i> , 2003, 181, 73-84.	2.0	30
85	Postnatal development of the endbulb of Held in congenitally deaf cats. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 19.	1.7	30
86	Descending projections from the inferior colliculus to medial olivocochlear efferents: Mice with normal hearing, early onset hearing loss, and congenital deafness. <i>Hearing Research</i> , 2017, 343, 34-49.	2.0	30
87	The functional age of hearing loss in a mouse model of presbycusis. II. Neuroanatomical correlates. <i>Hearing Research</i> , 2003, 183, 29-36.	2.0	28
88	Hearing molecules: contributions from genetic deafness. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 566-580.	5.4	28
89	Feline Deafness. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2012, 42, 1179-1207.	1.5	28
90	The Effect of Cochlear-Implant-Mediated Electrical Stimulation on Spiral Ganglion Cells in Congenitally Deaf White Cats. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010, 11, 587-603.	1.8	27

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91	Regulation of auditory plasticity during critical periods and following hearing loss. <i>Hearing Research</i> , 2020, 397, 107976.	2.0	27
92	An Animal Model for Cochlear Implants. <i>JAMA Otolaryngology</i> , 2004, 130, 499.	1.2	26
93	Hidden hearing loss and endbulbs of Held: Evidence for central pathology before detection of ABR threshold increases. <i>Hearing Research</i> , 2018, 364, 104-117.	2.0	26
94	Immunocytochemical localization of glycine in a subset of cartwheel cells of the dorsal cochlear nucleus in rats. <i>Hearing Research</i> , 1996, 96, 157-166.	2.0	25
95	The Effects of Congenital Deafness on Auditory Nerve Synapses: Type I and Type II Multipolar Cells in the Anteroventral Cochlear Nucleus of Cats. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2002, 3, 403-417.	1.8	25
96	Projections of the lateral reticular nucleus to the cochlear nucleus in rats. <i>Journal of Comparative Neurology</i> , 2007, 504, 583-598.	1.6	25
97	Auditory and Vestibular Efferents. <i>Springer Handbook of Auditory Research</i> , 2011, , .	0.7	25
98	Cytosolic Recognition of RNA Drives the Immune Response to Heterologous Erythrocytes. <i>Cell Reports</i> , 2017, 21, 1624-1638.	6.4	25
99	Inhibitory synaptic interactions between cochlear nuclei. <i>NeuroReport</i> , 1999, 10, 1913-1917.	1.2	24
100	Tonotopic organization of vertical cells in the dorsal cochlear nucleus of the CBA/J mouse. <i>Journal of Comparative Neurology</i> , 2014, 522, 937-949.	1.6	22
101	Central trajectories of type II (thin) fibers of the auditory nerve in cats. <i>Hearing Research</i> , 1994, 79, 74-82.	2.0	20
102	Auditory nerve synapses persist in ventral cochlear nucleus long after loss of acoustic input in mice with early-onset progressive hearing loss. <i>Brain Research</i> , 2015, 1605, 22-30.	2.2	20
103	Auditory neuroplasticity, hearing loss and cochlear implants. <i>Cell and Tissue Research</i> , 2015, 361, 251-269.	2.9	19
104	Preparation of an Awake Mouse for Recording Neural Responses and Injecting Tracers. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	18
105	PHR1, a PH Domain-Containing Protein Expressed in Primary Sensory Neurons. <i>Molecular and Cellular Biology</i> , 2004, 24, 9137-9151.	2.3	16
106	Age-related neuronal loss in the cochlea is not delayed by synaptic modulation. <i>Neurobiology of Aging</i> , 2011, 32, 2321.e13-2321.e23.	3.1	16
107	Neuronal organization of the cochlear nuclei in alligator lizards: A light and electron microscopic investigation. <i>Journal of Comparative Neurology</i> , 1995, 357, 217-241.	1.6	15
108	The effect of progressive hearing loss on the morphology of endbulbs of Held and bushy cells. <i>Hearing Research</i> , 2017, 343, 14-33.	2.0	15

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109	Auditory System. , 2012, , 607-645.		14
110	Efficient quantification of afferent cochlear ultrastructure using design-based stereology. Journal of Neuroscience Methods, 2006, 150, 150-158.	2.5	12
111	Descending projections from the inferior colliculus to the dorsal cochlear nucleus are excitatory. Journal of Comparative Neurology, 2017, 525, 773-793.	1.6	12
112	Central Projections of Spiral Ganglion Neurons. Springer Handbook of Auditory Research, 2016, , 157-190.	0.7	9
113	Idiopathic sudden sensorineural hearing loss: A critique on corticosteroid therapy. Hearing Research, 2022, 422, 108565.	2.0	8
114	Projections from the ventral cochlear nucleus to the dorsal cochlear nucleus in rats. Journal of Comparative Neurology, 1997, 385, 245-264.	1.6	7
115	Ultrastructural Analysis of Synaptic Endings of Auditory Nerve Fibers in Cats: Correlations with Spontaneous Discharge Rate. , 1993, , 65-74.		7
116	Ultrastructural examination of the somatic innervation of ventrotubercular cells in the rat. Journal of Comparative Neurology, 2003, 459, 77-89.	1.6	6
117	Expression and Localization of Kv1.1 and Kv3.1b Potassium Channels in the Cochlear Nucleus and Inferior Colliculus after Long-Term Auditory Deafferentation. Brain Sciences, 2020, 10, 35.	2.3	6
118	Peripheral Course of Genioglossal Motor Axons Within the Hypoglossal Nerve of the Rat. Laryngoscope, 1996, 106, 1274-1279.	2.0	5
119	Ultrastructural changes in primary endings of deaf white cats...Second Place...Resident Basic Science Award 1996. Otolaryngology - Head and Neck Surgery, 1997, 116, 286-293.	1.9	5
120	Immunocytochemical Localization of Olfactory-signaling Molecules in Human and Rat Spermatozoa. Journal of Histochemistry and Cytochemistry, 2020, 68, 491-513.	2.5	5
121	Projections from the ventral nucleus of the lateral lemniscus to the cochlea in the mouse. Journal of Comparative Neurology, 2021, 529, 2995-3012.	1.6	5
122	Glycine immunoreactivity of multipolar neurons in the ventral cochlear nucleus which project to the dorsal cochlear nucleus. Journal of Comparative Neurology, 1999, 408, 515-531.	1.6	4
123	Introduction to Efferent Systems. Springer Handbook of Auditory Research, 2011, , 1-15.	0.7	4
124	Synaptic Organization and Plasticity in the Auditory System of the Deaf White Cat. Springer Handbook of Auditory Research, 2013, , 83-128.	0.7	2
125	Ultrastructural Features of Endbulbs of Held in Deaf White Cats: Changes in Structure Related to Age of Deafness. Otolaryngology - Head and Neck Surgery, 1995, 113, P100-P100.	1.9	1
126	63: Ultrastructure Analysis of Primary Endings in Deaf White Cats: Morphologic Alterations in Endbulbs of Held. Otolaryngology - Head and Neck Surgery, 1996, 115, P98-P98.	1.9	0



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127	Cochlear Implantation, Synaptic Plasticity and Auditory Function. , 2012, , .		0
128	Giant Synaptic Terminals: Endbulbs and Calyces of the Auditory System . , 2017, , .		0
129	From Degenerative Debris to Neuronal Tracing: An Anterograde View of Auditory Circuits. Springer Handbook of Auditory Research, 2014, , 513-531.	0.7	0
130	The auditory nerve in congenitally deaf white cats: Correlations between anatomy and electrophysiology. Journal of the Acoustical Society of America, 1997, 101, 3191-3191.	1.1	0