

# M Alex Meredith

## List of Publications by Year in descending order

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82  
papers

8,423  
citations

76196

40  
h-index

69108

77  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual, auditory, and somatosensory convergence on cells in superior colliculus results in multisensory integration. <i>Journal of Neurophysiology</i> , 1986, 56, 640-662.	0.9	1,054
2	Interactions among converging sensory inputs in the superior colliculus. <i>Science</i> , 1983, 221, 389-391.	6.0	739
3	Determinants of multisensory integration in superior colliculus neurons. I. Temporal factors. <i>Journal of Neuroscience</i> , 1987, 7, 3215-3229.	1.7	667
4	Cross-modal plasticity in specific auditory cortices underlies visual compensations in the deaf. <i>Nature Neuroscience</i> , 2010, 13, 1421-1427.	7.1	409
5	Spatial factors determine the activity of multisensory neurons in cat superior colliculus. <i>Brain Research</i> , 1986, 365, 350-354.	1.1	368
6	Behavioral Indices of Multisensory Integration: Orientation to Visual Cues is Affected by Auditory Stimuli. <i>Journal of Cognitive Neuroscience</i> , 1989, 1, 12-24.	1.1	357
7	Spatial determinants of multisensory integration in cat superior colliculus neurons. <i>Journal of Neurophysiology</i> , 1996, 75, 1843-1857.	0.9	265
8	Neurons and behavior: the same rules of multisensory integration apply. <i>Brain Research</i> , 1988, 448, 355-358.	1.1	260
9	Multisensory Integration in the Superior Colliculus of the Alert Cat. <i>Journal of Neurophysiology</i> , 1998, 80, 1006-1010.	0.9	240
10	Converging influences from visual, auditory, and somatosensory cortices onto output neurons of the superior colliculus. <i>Journal of Neurophysiology</i> , 1993, 69, 1797-1809.	0.9	238
11	Integration of multiple sensory modalities in cat cortex. <i>Experimental Brain Research</i> , 1992, 91, 484-8.	0.7	215
12	Intrinsic Circuitry of the Superior Colliculus: Pharmacophysiological Identification of Horizontally Oriented Inhibitory Interneurons. <i>Journal of Neurophysiology</i> , 1998, 79, 1597-1602.	0.9	209
13	On the neuronal basis for multisensory convergence: a brief overview. <i>Cognitive Brain Research</i> , 2002, 14, 31-40.	3.3	163
14	Chapter 8 The visually responsive neuron and beyond: multisensory integration in cat and monkey. <i>Progress in Brain Research</i> , 1993, 95, 79-90.	0.9	148
15	Descending efferents from the superior colliculus relay integrated multisensory information. <i>Science</i> , 1985, 227, 657-659.	6.0	147
16	Multisensory Integration.. <i>Annals of the New York Academy of Sciences</i> , 1990, 608, 51-70.	1.8	147
17	The role of anterior ectosylvian cortex in cross-modality orientation and approach behavior. <i>Experimental Brain Research</i> , 1996, 112, 1-10.	0.7	143
18	Auditory cortical projection from the anterior ectosylvian sulcus (Field AES) to the superior colliculus in the cat: An anatomical and electrophysiological study. <i>Journal of Comparative Neurology</i> , 1989, 289, 687-707.	0.9	140

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19	Visual, auditory and somatosensory convergence in output neurons of the cat superior colliculus: multisensory properties of the tecto-reticulo-spinal projection. <i>Experimental Brain Research</i> , 1992, 88, 181-186.	0.7	131
20	Crossmodal reorganization in the early deaf switches sensory, but not behavioral roles of auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8856-8861.	3.3	125
21	Suppression of NMDA Receptor Function Using Antisense DNA Blocks Ocular Dominance Plasticity While Preserving Visual Responses. <i>Journal of Neurophysiology</i> , 1998, 80, 1021-1032.	0.9	123
22	Crossmodal Integration in the Primate Superior Colliculus Underlying the Preparation and Initiation of Saccadic Eye Movements. <i>Journal of Neurophysiology</i> , 2005, 93, 3659-3673.	0.9	116
23	Adult deafness induces somatosensory conversion of ferret auditory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5925-5930.	3.3	116
24	Stimulus intensity modifies saccadic reaction time and visual response latency in the superior colliculus. <i>Experimental Brain Research</i> , 2006, 174, 53-59.	0.7	107
25	Semantic confusion regarding the development of multisensory integration: a practical solution. <i>European Journal of Neuroscience</i> , 2010, 31, 1713-1720.	1.2	107
26	Cross-modal Circuitry Between Auditory and Somatosensory Areas of the Cat Anterior Ectosylvian Sulcal Cortex: A 'New' Inhibitory Form of Multisensory Convergence. <i>Cerebral Cortex</i> , 2004, 14, 387-403.	1.6	98
27	Somatosensory and visual crossmodal plasticity in the anterior auditory field of early-deaf cats. <i>Hearing Research</i> , 2011, 280, 38-47.	0.9	97
28	Multisensory Processing in "Unimodal" Neurons: Cross-Modal Subthreshold Auditory Effects in Cat Extrastriate Visual Cortex. <i>Journal of Neurophysiology</i> , 2007, 98, 545-549.	0.9	92
29	Engagement of visual fixation suppresses sensory responsiveness and multisensory integration in the primate superior colliculus. <i>European Journal of Neuroscience</i> , 2003, 18, 2867-2873.	1.2	69
30	Not Just for Bimodal Neurons Anymore: The Contribution of Unimodal Neurons to Cortical Multisensory Processing. <i>Brain Topography</i> , 2009, 21, 157-167.	0.8	64
31	The visuotopic component of the multisensory map in the deep laminae of the cat superior colliculus. <i>Journal of Neuroscience</i> , 1990, 10, 3727-3742.	1.7	63
32	The influence of stimulus properties on multisensory processing in the awake primate superior colliculus. <i>Canadian Journal of Experimental Psychology</i> , 2001, 55, 123-132.	0.7	60
33	Crossmodal projections from somatosensory area SIV to the auditory field of the anterior ectosylvian sulcus (FAES) in Cat: further evidence for subthreshold forms of multisensory processing. <i>Experimental Brain Research</i> , 2006, 172, 472-484.	0.7	57
34	Subthreshold multisensory processing in cat auditory cortex. <i>NeuroReport</i> , 2009, 20, 126-131.	0.6	56
35	Chemoarchitecture of GABAergic neurons in the ferret superior colliculus. <i>Journal of Comparative Neurology</i> , 2002, 452, 334-359.	0.9	55
36	Multisensory dysfunction accompanies crossmodal plasticity following adult hearing impairment. <i>Neuroscience</i> , 2012, 214, 136-148.	1.1	49

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37	Do Cross-Modal Projections Always Result in Multisensory Integration?. <i>Cerebral Cortex</i> , 2008, 18, 2066-2076.	1.6	46
38	Early Hearing-Impairment Results in Crossmodal Reorganization of Ferret Core Auditory Cortex. <i>Neural Plasticity</i> , 2012, 2012, 1-13.	1.0	45
39	Single-unit analysis of somatosensory processing in the core auditory cortex of hearing ferrets. <i>European Journal of Neuroscience</i> , 2015, 41, 686-698.	1.2	45
40	Somatotopic component of the multisensory map in the deep laminae of the cat superior colliculus. <i>Journal of Comparative Neurology</i> , 1991, 312, 353-370.	0.9	44
41	Cortical and thalamic connectivity of the auditory anterior ectosylvian cortex of early-deaf cats: Implications for neural mechanisms of crossmodal plasticity. <i>Hearing Research</i> , 2016, 333, 25-36.	0.9	43
42	Subthreshold auditory inputs to extrastriate visual neurons are responsive to parametric changes in stimulus quality: Sensory-specific versus non-specific coding. <i>Brain Research</i> , 2008, 1242, 95-101.	1.1	40
43	Contractile differences between muscle units in the medial rectus and lateral rectus muscles in the cat. <i>Journal of Neurophysiology</i> , 1986, 56, 50-62.	0.9	37
44	Spatial distribution of functional superficial and deep connections in the adult ferret superior colliculus. <i>Neuroscience</i> , 2004, 128, 861-870.	1.1	36
45	Auditory projections to extrastriate visual cortex: connectional basis for multisensory processing in unimodal visual neurons. <i>Experimental Brain Research</i> , 2008, 191, 37-47.	0.7	36
46	Laminar and connectional organization of a multisensory cortex. <i>Journal of Comparative Neurology</i> , 2013, 521, 1867-1890.	0.9	36
47	Synaptic Basis for Cross-modal Plasticity: Enhanced Supragranular Dendritic Spine Density in Anterior Ectosylvian Auditory Cortex of the Early Deaf Cat. <i>Cerebral Cortex</i> , 2016, 26, 1365-1376.	1.6	36
48	Species-dependent role of crossmodal connectivity among the primary sensory cortices. <i>Hearing Research</i> , 2017, 343, 83-91.	0.9	35
49	Adaptive crossmodal plasticity in deaf auditory cortex. <i>Progress in Brain Research</i> , 2011, 191, 251-270.	0.9	33
50	Somatosensory and multisensory properties of the medial bank of the ferret rostral suprasylvian sulcus. <i>Experimental Brain Research</i> , 2009, 196, 239-251.	0.7	31
51	Auditory influences on non-auditory cortices. <i>Hearing Research</i> , 2009, 258, 64-71.	0.9	31
52	Sensory and multisensory representations within the cat rostral suprasylvian cortex. <i>Journal of Comparative Neurology</i> , 2007, 503, 110-127.	0.9	28
53	Multiple sensory afferents to ferret pseudosylvian sulcal cortex. <i>NeuroReport</i> , 2004, 15, 461-465.	0.6	26
54	Crashing from cadaver to computer: Covid-driven crisis mode pedagogy spawns active online substitute for teaching gross anatomy. <i>Anatomical Sciences Education</i> , 2021, 14, 536-551.	2.5	23

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55	The frontal eye fields target multisensory neurons in cat superior colliculus. <i>Experimental Brain Research</i> , 1999, 128, 460-470.	0.7	21
56	Organization of the neurons of origin of the descending pathways from the ferret superior colliculus. <i>Neuroscience Research</i> , 2001, 40, 301-313.	1.0	21
57	Neuroanatomical identification of crossmodal auditory inputs to interneurons in somatosensory cortex. <i>Experimental Brain Research</i> , 2010, 202, 725-731.	0.7	21
58	Multisensory and unisensory neurons in ferret parietal cortex exhibit distinct functional properties. <i>European Journal of Neuroscience</i> , 2013, 37, 910-923.	1.2	21
59	An examination of somatosensory area SIII in ferret cortex. <i>Somatosensory &amp; Motor Research</i> , 2011, 28, 1-10.	0.4	18
60	Synaptic distribution and plasticity in primary auditory cortex (A1) exhibits laminar and cell-specific changes in the deaf. <i>Hearing Research</i> , 2017, 353, 122-134.	0.9	17
61	Retractor bulbi muscle responses to oculomotor nerve and nucleus stimulation in the cat. <i>Brain Research</i> , 1981, 211, 427-432.	1.1	16
62	A comparison of the distribution of GABA-ergic neurons in cortices representing different sensory modalities. <i>Journal of Chemical Neuroanatomy</i> , 2003, 26, 51-63.	1.0	16
63	Cortical multisensory connectivity is present near birth in humans. <i>Brain Imaging and Behavior</i> , 2017, 11, 1207-1213.	1.1	16
64	Modeling Multisensory Enhancement with Self-organizing Maps. <i>Frontiers in Computational Neuroscience</i> , 2009, 3, 8.	1.2	15
65	Dendritic spine density in multisensory versus primary sensory cortex. <i>Synapse</i> , 2012, 66, 714-724.	0.6	12
66	Anterior ectosylvian cortical projections to the rostral suprasylvian multisensory zone in cat. <i>NeuroReport</i> , 2003, 14, 2139-2145.	0.6	11
67	Cortico-cortical relations of cat somatosensory areas SIV and SV. <i>Somatosensory &amp; Motor Research</i> , 2004, 21, 199-209.	0.4	11
68	Connectional parameters determine multisensory processing in a spiking network model of multisensory convergence. <i>Experimental Brain Research</i> , 2011, 213, 329-339.	0.7	11
69	Is territorial expansion a mechanism for crossmodal plasticity?. <i>European Journal of Neuroscience</i> , 2017, 45, 1165-1176.	1.2	9
70	Responses to innocuous, but not noxious, somatosensory stimulation by neurons in the ferret superior colliculus. <i>Somatosensory &amp; Motor Research</i> , 2000, 17, 297-308.	0.4	8
71	Cadaver Rounds: A Comprehensive Exercise That Integrates Clinical Context Into Medical Gross Anatomy. <i>Academic Medicine</i> , 2019, 94, 828-832.	0.8	7
72	What is a multisensory cortex? A laminar, connectional, and functional study of a ferret temporal cortical multisensory area. <i>Journal of Comparative Neurology</i> , 2020, 528, 1864-1882.	0.9	6

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73	Multisensory responses in a belt region of the dorsal auditory cortical pathway. <i>European Journal of Neuroscience</i> , 2022, 55, 589-610.	1.2	6
74	Do the Different Sensory Areas Within the Cat Anterior Ectosylvian Sulcal Cortex Collectively Represent a Network Multisensory Hub?. <i>Multisensory Research</i> , 2018, 31, 793-823.	0.6	4
75	Corticocortical Connectivity Subservicing Different Forms of Multisensory Convergence. , 2010, , 7-20.		4
76	A Neuronal Multisensory Processing Simulator. , 2010, , .		2
77	Editorial introduction: Special issue on plasticity following hearing loss and deafness. <i>Hearing Research</i> , 2017, 343, 1-3.	0.9	2
78	Early hearing loss induces plasticity within extrastriate visual cortex. <i>European Journal of Neuroscience</i> , 2021, 53, 1950-1960.	1.2	2
79	MULTISENSORY PROCESSES. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2004, 4, 115-116.	1.0	0
80	A simple vector-like law for perceptual information combination is also followed by a class of cortical multisensory bimodal neurons. <i>IScience</i> , 2021, 24, 102527.	1.9	0
81	Audiovisual Enhanced Sensitivity: Both Psychophysical and Neural Data Follow the Same Combination Rule. <i>Journal of Vision</i> , 2019, 19, 34.	0.1	0
82	Dystrophic muscle distribution in late-stage muscular dystrophy. <i>Autopsy and Case Reports</i> , 2020, 10, e2020221.	0.2	0