

Helen Barbas

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

6,610
citations

76196

40
h-index

106150

65
g-index

74
all docs

74
docs citations

74
times ranked

7443
citing authors

#	ARTICLE	IF	CITATIONS
1	Connections underlying the synthesis of cognition, memory, and emotion in primate prefrontal cortices. <i>Brain Research Bulletin</i> , 2000, 52, 319-330.	1.4	630
2	Topographically specific hippocampal projections target functionally distinct prefrontal areas in the rhesus monkey. <i>Hippocampus</i> , 1995, 5, 511-533.	0.9	389
3	General Cortical and Special Prefrontal Connections: Principles from Structure to Function. <i>Annual Review of Neuroscience</i> , 2015, 38, 269-289.	5.0	328
4	Changes in Prefrontal Axons May Disrupt the Network in Autism. <i>Journal of Neuroscience</i> , 2010, 30, 14595-14609.	1.7	306
5	Prefrontal Projections to the Thalamic Reticular Nucleus form a Unique Circuit for Attentional Mechanisms. <i>Journal of Neuroscience</i> , 2006, 26, 7348-7361.	1.7	297
6	Serial pathways from primate prefrontal cortex to autonomic areas may influence emotional expression. <i>BMC Neuroscience</i> , 2003, 4, 25.	0.8	296
7	Role of Mechanical Factors in the Morphology of the Primate Cerebral Cortex. <i>PLoS Computational Biology</i> , 2006, 2, e22.	1.5	271
8	Altered neural connectivity in excitatory and inhibitory cortical circuits in autism. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 609.	1.0	235
9	The Laminar Pattern of Connections between Prefrontal and Anterior Temporal Cortices in the Rhesus Monkey is Related to Cortical Structure and Function. <i>Cerebral Cortex</i> , 2000, 10, 851-865.	1.6	180
10	Pathways for Emotions and Attention Converge on the Thalamic Reticular Nucleus in Primates. <i>Journal of Neuroscience</i> , 2012, 32, 5338-5350.	1.7	179
11	Prefrontalâ€“hippocampal pathways underlying inhibitory control over memory. <i>Neurobiology of Learning and Memory</i> , 2016, 134, 145-161.	1.0	164
12	Distinction of Neurons, Glia and Endothelial Cells in the Cerebral Cortex: An Algorithm Based on Cytological Features. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 107.	0.9	161
13	Flow of information for emotions through temporal and orbitofrontal pathways. <i>Journal of Anatomy</i> , 2007, 211, 237-249.	0.9	154
14	The Structural Model: a theory linking connections, plasticity, pathology, development and evolution of the cerebral cortex. <i>Brain Structure and Function</i> , 2019, 224, 985-1008.	1.2	149
15	The Prefrontal Cortex and Flexible Behavior. <i>Neuroscientist</i> , 2007, 13, 532-545.	2.6	145
16	Synapses with Inhibitory Neurons Differentiate Anterior Cingulate from Dorsolateral Prefrontal Pathways Associated with Cognitive Control. <i>Neuron</i> , 2009, 61, 609-620.	3.8	134
17	Sequence of information processing for emotions through pathways linking temporal and insular cortices with the amygdala. <i>NeuroImage</i> , 2008, 40, 1016-1033.	2.1	123
18	Circuits for Multisensory Integration and Attentional Modulation Through the Prefrontal Cortex and the Thalamic Reticular Nucleus in Primates. <i>Reviews in the Neurosciences</i> , 2007, 18, 417-38.	1.4	119

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19	Specialized Elements of Orbitofrontal Cortex in Primates. <i>Annals of the New York Academy of Sciences</i> , 2007, 1121, 10-32.	1.8	112
20	Sensory Pathways and Emotional Context for Action in Primate Prefrontal Cortex. <i>Biological Psychiatry</i> , 2011, 69, 1133-1139.	0.7	112
21	The primate connectome in context: Principles of connections of the cortical visual system. <i>NeuroImage</i> , 2016, 134, 685-702.	2.1	102
22	A Predictive Structural Model of the Primate Connectome. <i>Scientific Reports</i> , 2017, 7, 43176.	1.6	100
23	Parallel Driving and Modulatory Pathways Link the Prefrontal Cortex and Thalamus. <i>PLoS ONE</i> , 2007, 2, e848.	1.1	99
24	Anterior Cingulate Synapses in Prefrontal Areas 10 and 46 Suggest Differential Influence in Cognitive Control. <i>Journal of Neuroscience</i> , 2010, 30, 16068-16081.	1.7	97
25	Parallel organization of contralateral and ipsilateral prefrontal cortical projections in the rhesus monkey. <i>BMC Neuroscience</i> , 2005, 6, 32.	0.8	84
26	Pathways for Emotions: Specializations in the Amygdalar, Mediodorsal Thalamic, and Posterior Orbitofrontal Network. <i>Journal of Neuroscience</i> , 2015, 35, 11976-11987.	1.7	82
27	Specialized prefrontal "auditory fields" organization of primate prefrontal-temporal pathways. <i>Frontiers in Neuroscience</i> , 2014, 8, 77.	1.4	81
28	Frontal-thalamic circuits associated with language. <i>Brain and Language</i> , 2013, 126, 49-61.	0.8	80
29	Effects of normal aging on prefrontal area 46 in the rhesus monkey. <i>Brain Research Reviews</i> , 2010, 62, 212-232.	9.1	79
30	How the prefrontal executive got its stripes. <i>Current Opinion in Neurobiology</i> , 2016, 40, 125-134.	2.0	77
31	Cortical Connections Position Primate Area 25 as a Keystone for Interoception, Emotion, and Memory. <i>Journal of Neuroscience</i> , 2018, 38, 1677-1698.	1.7	76
32	Motor cortex layer 4: less is more. <i>Trends in Neurosciences</i> , 2015, 38, 259-261.	4.2	73
33	Are there ten times more glia than neurons in the brain?. <i>Brain Structure and Function</i> , 2009, 213, 365-366.	1.2	71
34	Mirror trends of plasticity and stability indicators in primate prefrontal cortex. <i>European Journal of Neuroscience</i> , 2017, 46, 2392-2405.	1.2	70
35	Area 4 has layer IV in adult primates. <i>European Journal of Neuroscience</i> , 2014, 39, 1824-1834.	1.2	69
36	The prefrontal cortex, pathological anxiety, and anxiety disorders. <i>Neuropsychopharmacology</i> , 2022, 47, 260-275.	2.8	67

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37	Anatomy and computational modeling of networks underlying cognitive-emotional interaction. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 101.	1.0	56
38	Synaptic Distinction of Laminar-specific Prefrontal-temporal Pathways in Primates. <i>Cerebral Cortex</i> , 2006, 16, 865-875.	1.6	48
39	The Anterior Cingulate Cortex May Enhance Inhibition of Lateral Prefrontal Cortex Via m2 Cholinergic Receptors at Dual Synaptic Sites. <i>Journal of Neuroscience</i> , 2012, 32, 15611-15625.	1.7	45
40	Parallel trends in cortical gray and white matter architecture and connections in primates allow fine study of pathways in humans and reveal network disruptions in autism. <i>PLoS Biology</i> , 2018, 16, e2004559.	2.6	45
41	Specialized Pathways from the Primate Amygdala to Posterior Orbitofrontal Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 8106-8118.	1.7	44
42	Posterior Orbitofrontal and Anterior Cingulate Pathways to the Amygdala Target Inhibitory and Excitatory Systems with Opposite Functions. <i>Journal of Neuroscience</i> , 2017, 37, 5051-5064.	1.7	44
43	The intercalated nuclear complex of the primate amygdala. <i>Neuroscience</i> , 2016, 330, 267-290.	1.1	42
44	Parallel prefrontal pathways reach distinct excitatory and inhibitory systems in memory-related rhinal cortices. <i>Journal of Comparative Neurology</i> , 2013, 521, 4260-4283.	0.9	41
45	Specificity of Primate Amygdalar Pathways to Hippocampus. <i>Journal of Neuroscience</i> , 2018, 38, 10019-10041.	1.7	40
46	The Emotional Gatekeeper: A Computational Model of Attentional Selection and Suppression through the Pathway from the Amygdala to the Inhibitory Thalamic Reticular Nucleus. <i>PLoS Computational Biology</i> , 2016, 12, e1004722.	1.5	40
47	Prefrontal pathways target excitatory and inhibitory systems in memory-related medial temporal cortices. <i>NeuroImage</i> , 2011, 55, 1461-1474.	2.1	32
48	Anterior Cingulate Pathways May Affect Emotions Through Orbitofrontal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 4891-4910.	1.6	30
49	Pathway mechanism for excitatory and inhibitory control in working memory. <i>Journal of Neurophysiology</i> , 2018, 120, 2659-2678.	0.9	29
50	Organization of primate amygdalar-thalamic pathways for emotions. <i>PLoS Biology</i> , 2020, 18, e3000639.	2.6	27
51	Sequential and parallel circuits for emotional processing in primate orbitofrontal cortex. , 2006, , 57-92.		25
52	A direct anterior cingulate pathway to the primate primary olfactory cortex may control attention to olfaction. <i>Brain Structure and Function</i> , 2014, 219, 1735-1754.	1.2	23
53	Opposite development of short- and long-range anterior cingulate pathways in autism. <i>Acta Neuropathologica</i> , 2018, 136, 759-778.	3.9	23
54	Serial Prefrontal Pathways Are Positioned to Balance Cognition and Emotion in Primates. <i>Journal of Neuroscience</i> , 2020, 40, 8306-8328.	1.7	22

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55	Parallel Development of Chromatin Patterns, Neuron Morphology, and Connections: Potential for Disruption in Autism. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 70.	0.9	21
56	Mechanisms for the Approach/Avoidance Decision Applied to Autism. <i>Trends in Neurosciences</i> , 2019, 42, 448-457.	4.2	19
57	Visual Attention Decits in Schizophrenia Can Arise From Inhibitory Dysfunction in Thalamus or Cortex. <i>Computational Psychiatry</i> , 2020, 2, 223.	1.1	17
58	Pathways for Contextual Memory: The Primate Hippocampal Pathway to Anterior Cingulate Cortex. <i>Cerebral Cortex</i> , 2021, 31, 1807-1826.	1.6	16
59	Pathways for Memory, Cognition and Emotional Context: Hippocampal, Subgenual Area 25, and Amygdalar Axons Show Unique Interactions in the Primate Thalamic Reuniens Nucleus. <i>Journal of Neuroscience</i> , 2022, 42, 1068-1089.	1.7	14
60	Circuits through prefrontal cortex, basal ganglia, and ventral anterior nucleus map pathways beyond motor control. <i>Thalamus & Related Systems</i> , 2004, 2, 325.	0.5	13
61	Prefrontal Cortex Integration of Emotion and Cognition. , 2017, , 51-76.		13
62	Prefrontal Pathways that Control Attention. , 2013, , 31-48.		10
63	Topological atlas of the hypothalamus in adult rhesus monkey. <i>Brain Structure and Function</i> , 2020, 225, 1777-1803.	1.2	9
64	Dead Tissue, Living Ideas: Facts and Theory from Neuroanatomy. <i>Cortex</i> , 2004, 40, 205-206.	1.1	8
65	Architecture and connections of the premotor areas in the rhesus monkey. <i>Behavioral and Brain Sciences</i> , 1985, 8, 595-596.	0.4	7
66	Classes and gradients of prefrontal cortical organization in the primate. <i>Neurocomputing</i> , 2002, 44-46, 823-829.	3.5	4
67	Frontal Cortex. , 2013, , 1289-1334.		2
68	Chondroitin Sulphate Proteoglycan Axonal Coats in the Human Mediodorsal Thalamic Nucleus. <i>Frontiers in Integrative Neuroscience</i> , 0, 16, .	1.0	2
69	Toward Patient-Specific Targeting and Parameter Setting of Deep Brain Stimulation for Relief of Depression. <i>Biological Psychiatry</i> , 2014, 76, 914-916.	0.7	1
70	Frontal Cortex. , 2016, , 1421-1467.		0