

# Barbara L Finlay

## List of Publications by Year in descending order

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73  
papers

5,505  
citations

87843

38  
h-index

82499

72  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extrapolating brain development from experimental species to humans. <i>NeuroToxicology</i> , 2007, 28, 931-937.	1.4	735
2	Modeling Transformations of Neurodevelopmental Sequences across Mammalian Species. <i>Journal of Neuroscience</i> , 2013, 33, 7368-7383.	1.7	687
3	Developmental structure in brain evolution. <i>Behavioral and Brain Sciences</i> , 2001, 24, 263-278.	0.4	452
4	Web-based method for translating neurodevelopment from laboratory species to humans. <i>Neuroinformatics</i> , 2007, 5, 79-94.	1.5	288
5	Patterns of Vertebrate Neurogenesis and the Paths of Vertebrate Evolution. <i>Brain, Behavior and Evolution</i> , 1998, 52, 232-242.	0.9	175
6	A conserved pattern of brain scaling from sharks to primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12946-12951.	3.3	166
7	Topography of visual and somatosensory projections to the superior colliculus of the golden hamster. <i>Brain Research</i> , 1978, 142, 223-235.	1.1	163
8	The early development of thalamocortical and corticothalamic projections. <i>Journal of Comparative Neurology</i> , 1993, 335, 16-41.	0.9	156
9	Systematic, Cross-Cortex Variation in Neuron Numbers in Rodents and Primates. <i>Cerebral Cortex</i> , 2015, 25, 147-160.	1.6	131
10	Developmental mechanisms channeling cortical evolution. <i>Trends in Neurosciences</i> , 2015, 38, 69-76.	4.2	124
11	Anomalous ipsilateral retinotectal projections in syrian hamsters with early lesions: Topography and functional capacity. <i>Journal of Comparative Neurology</i> , 1979, 183, 721-740.	0.9	119
12	The course of human events: predicting the timing of primate neural development. <i>Developmental Science</i> , 2000, 3, 57-66.	1.3	110
13	The role of the superior colliculus in visually guided locomotion and visual orienting in the hamster. <i>Physiological Psychology</i> , 1980, 8, 20-28.	0.8	105
14	Systematic, balancing gradients in neuron density and number across the primate isocortex. <i>Frontiers in Neuroanatomy</i> , 2012, 6, 28.	0.9	101
15	Regressive Events in Brain Development and Scenarios for Vertebrate Brain Evolution. <i>Brain, Behavior and Evolution</i> , 1987, 30, 102-117.	0.9	96
16	Evo-Devo and Brain Scaling: Candidate Developmental Mechanisms for Variation and Constancy in Vertebrate Brain Evolution. <i>Brain, Behavior and Evolution</i> , 2011, 78, 248-257.	0.9	78
17	Peripheral variability and central constancy in mammalian visual system evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 91-100.	1.2	73
18	Developmental sources of conservation and variation in the evolution of the primate eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8963-8968.	3.3	72

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19	Short-term response variability of monkey striate neurons. <i>Brain Research</i> , 1976, 105, 347-349.	1.1	71
20	Modeling local and cross-species neuron number variations in the cerebral cortex as arising from a common mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17642-17647.	3.3	66
21	Thinking outside the cortex: social motivation in the evolution and development of language. <i>Developmental Science</i> , 2011, 14, 417-430.	1.3	63
22	Number and topography of cones, rods and optic nerve axons in New and Old World primates. <i>Visual Neuroscience</i> , 2008, 25, 289-299.	0.5	62
23	Orderly compression of the retinotectal projection following partial tectal ablation in the newborn hamster. <i>Nature</i> , 1979, 280, 153-155.	13.7	56
24	Regulation of retinal ganglion cell axon arbor size by target availability: Mechanisms of compression and expansion of the retinotectal projection. <i>Journal of Comparative Neurology</i> , 1994, 344, 581-597.	0.9	56
25	Allocating structure to function: the strong links between neuroplasticity and natural selection. <i>Frontiers in Human Neuroscience</i> , 2014, 7, 918.	1.0	56
26	Comparing Adult Hippocampal Neurogenesis Across Species: Translating Time to Predict the Tempo in Humans. <i>Frontiers in Neuroscience</i> , 2018, 12, 706.	1.4	54
27	Cell death and the creation of regional differences in neuronal numbers. <i>Journal of Neurobiology</i> , 1992, 23, 1159-1171.	3.7	53
28	Evo-Devo and the Primate Isocortex: The Central Organizing Role of Intrinsic Gradients of Neurogenesis. <i>Brain, Behavior and Evolution</i> , 2014, 84, 81-92.	0.9	53
29	Endless minds most beautiful. <i>Developmental Science</i> , 2007, 10, 30-34.	1.3	52
30	Scaling of neuron number and volume of the pulvinar complex in new world primates: Comparisons with humans, other primates, and mammals. <i>Journal of Comparative Neurology</i> , 2007, 504, 265-274.	0.9	49
31	Cell degeneration in early development of the forebrain and cerebellum. <i>Anatomy and Embryology</i> , 1983, 167, 439-447.	1.5	48
32	Embracing covariation in brain evolution. <i>Progress in Brain Research</i> , 2012, 195, 71-87.	0.9	48
33	The developing and evolving retina: Using time to organize form. <i>Brain Research</i> , 2008, 1192, 5-16.	1.1	45
34	Factors controlling the dendritic arborization of retinal ganglion cells. <i>Visual Neuroscience</i> , 1996, 13, 721-733.	0.5	43
35	Mapping behavioural evolution onto brain evolution: the strategic roles of conserved organization in individuals and species. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2111-2123.	1.8	42
36	The pain of altruism. <i>Trends in Cognitive Sciences</i> , 2014, 18, 615-617.	4.0	41

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37	The cortex in multidimensional space: where do cortical areas come from?. <i>Developmental Science</i> , 2001, 4, 125-142.	1.3	40
38	Concepts, goals and the control of survival-related behaviors. <i>Current Opinion in Behavioral Sciences</i> , 2018, 24, 172-179.	2.0	40
39	Developmental structure in brain evolution. <i>Behavioral and Brain Sciences</i> , 2001, 24, .	0.4	37
40	THE OUTCOME OF PERINATAL BRAIN DAMAGE: THE RÅ"LE OF NORMAL NEURON LOSS AND AXON RETRACTION. <i>Developmental Medicine and Child Neurology</i> , 1986, 28, 375-389.	1.1	37
41	Mammalian brain development and our grandmothering life history. <i>Physiology and Behavior</i> , 2018, 193, 55-68.	1.0	37
42	Human exceptionalism. <i>Trends in Cognitive Sciences</i> , 2013, 17, 199-201.	4.0	34
43	Variation in Human Brains May Facilitate Evolutionary Change toward a Limited Range of Phenotypes. <i>Brain, Behavior and Evolution</i> , 2013, 81, 74-85.	0.9	34
44	Differential elasticity of the immature retina: A contribution to the development of the area centralis?. <i>Visual Neuroscience</i> , 1989, 2, 117-120.	0.5	33
45	A neuroethological approach to hamster vision. <i>Behavioural Brain Research</i> , 1980, 1, 479-496.	1.2	32
46	Reduction of early thalamic input alters adult corticocortical connectivity. <i>Developmental Brain Research</i> , 2002, 138, 35-43.	2.1	32
47	Ganglion Cell and Displaced Amacrine Cell Density Distribution in the Retina of the Howler Monkey ( <i>Alouatta caraya</i> ). <i>PLoS ONE</i> , 2014, 9, e115291.	1.1	24
48	Network Structure Implied by Initial Axon Outgrowth in Rodent Cortex: Empirical Measurement and Models. <i>PLoS ONE</i> , 2011, 6, e16113.	1.1	24
49	Developmental changes in the distribution of retinal catecholaminergic neurones in hamsters and gerbils. <i>Journal of Comparative Neurology</i> , 1990, 292, 480-494.	0.9	23
50	Thalamic Ablations and Neocortical Development: Alterations in Thalamic and Callosal Connectivity. <i>Cerebral Cortex</i> , 1991, 1, 241-261.	1.6	22
51	Toward a neuroethology of mammalian vision. <i>Behavioural Brain Research</i> , 1981, 3, 133-149.	1.2	20
52	Acquisition of visuomotor behavior after neonatal tectal lesions in the hamster: The role of visual experience.. <i>Journal of Comparative and Physiological Psychology</i> , 1980, 94, 506-518.	1.8	19
53	Coevolution in the timing of GABAergic and pyramidal neuron maturation in primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171169.	1.2	18
54	The neuroecology of the water-to-land transition and the evolution of the vertebrate brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200523.	1.8	18

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55	Human exceptionalism, our ordinary cortex and our research futures. <i>Developmental Psychobiology</i> , 2019, 61, 317-322.	0.9	16
56	Late Still Equals Large. <i>Brain, Behavior and Evolution</i> , 2010, 75, 4-6.	0.9	15
57	Self-organization of cortical areas in the development and evolution of neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29212-29220.	3.3	13
58	Comparative Aspects of Visual System Development. , 2006, , 37-72.		12
59	The specialization of the owl monkey retina for night vision. <i>Color Research and Application</i> , 2001, 26, S118-S122.	0.8	11
60	Natural symmetry. <i>Nature</i> , 2005, 435, 149-149.	13.7	11
61	Evolution of cytoarchitectural landscapes in the mammalian isocortex: Sirenians (<i>Trichechus) Tj ETQq1 1 0.784314 rgBT /Overlock 11	0.9	11
62	Principles of Network Architecture Emerging from Comparisons of the Cerebral Cortex in Large and Small Brains. <i>PLoS Biology</i> , 2016, 14, e1002556.	2.6	11
63	The neuroscience of vision and pain: evolution of two disciplines. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190292.	1.8	10
64	Scaling the primate lateral geniculate nucleus: Niche and neurodevelopment in the regulation of magnocellular and parvocellular cell number and nucleus volume. <i>Journal of Comparative Neurology</i> , 2014, 522, 1839-1857.	0.9	9
65	Changes in synaptic density after developmental compression or expansion of retinal input to the superior colliculus. <i>Journal of Comparative Neurology</i> , 1993, 330, 455-463.	0.9	8
66	Developmental duration as an organizer of the evolving mammalian brain: scaling, adaptations, and exceptions. <i>Evolution &amp; Development</i> , 2020, 22, 181-195.	1.1	8
67	Altered development of visual subcortical projections following neonatal thalamic ablation in the hamster. <i>Journal of Comparative Neurology</i> , 2000, 424, 165-178.	0.9	7
68	Chapter 25 What do developmental mapping rules optimize?. <i>Progress in Brain Research</i> , 1996, 112, 351-361.	0.9	3
69	The Calvinist Cortex: Penetrating Evolutionary Predestination Commentary on "Cortex, Countercurrent Context, and Dimensional Integration of Lifetime Memory" by Bjorn Merker. <i>Cortex</i> , 2004, 40, 577-579.	1.1	2
70	Generic Homo sapiens and Unique Mus musculus: Establishing the Typicality of the Modeled and the Model Species. <i>Brain, Behavior and Evolution</i> , 2019, 93, 122-136.	0.9	2
71	Master Mechanic, may I? Evolutionary permission versus evolutionary pressure. <i>Behavioral and Brain Sciences</i> , 1990, 13, 353-354.	0.4	1
72	The specialization of the owl monkey retina for night vision. <i>Color Research and Application</i> , 2001, 26, S118-S122.	0.8	1

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73	So many problems, so little time: Evolution and the dendrite. Behavioral and Brain Sciences, 1997, 20, 564-565.	0.4	0