

# Christine J Charvet

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,891  
citations

361413

20  
h-index

330143

37  
g-index

44  
all docs

44  
docs citations

44  
times ranked

2231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Transformations of Neurodevelopmental Sequences across Mammalian Species. <i>Journal of Neuroscience</i> , 2013, 33, 7368-7383.	3.6	687
2	Systematic, Cross-Cortex Variation in Neuron Numbers in Rodents and Primates. <i>Cerebral Cortex</i> , 2015, 25, 147-160.	2.9	131
3	Systematic, balancing gradients in neuron density and number across the primate isocortex. <i>Frontiers in Neuroanatomy</i> , 2012, 6, 28.	1.7	101
4	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.	1.7	78
5	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.	7.1	66
6	Developmental origins of species differences in telencephalon and tectum size: Morphometric comparisons between a parakeet ( <i>Melopsittacus undulatus</i> ) and a quail ( <i>Colinus</i> )	1.7	53
7	Developmental Modes and Developmental Mechanisms can Channel Brain Evolution. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 4.	1.7	59
8	Comparing Adult Hippocampal Neurogenesis Across Species: Translating Time to Predict the Tempo in Humans. <i>Frontiers in Neuroscience</i> , 2018, 12, 706.	2.8	54
9	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.	1.7	53
10	Developmental Species Differences in Brain Cell Cycle Rates between Northern Bobwhite Quail ( <i>Colinus virginianus</i> ) and Parakeets ( <i>Melopsittacus undulatus</i> ): Implications for Mosaic Brain Evolution. <i>Brain, Behavior and Evolution</i> , 2008, 72, 295-306.	1.7	52
11	Embracing covariation in brain evolution. <i>Progress in Brain Research</i> , 2012, 195, 71-87.	1.4	48
12	Developmental origins of mosaic brain evolution: Morphometric analysis of the developing zebra finch brain. <i>Journal of Comparative Neurology</i> , 2009, 514, 203-213.	1.6	38
13	Phylogeny of the Telencephalic Subventricular Zone in Sauropsids: Evidence for the Sequential Evolution of Pallial and Subpallial Subventricular Zones. <i>Brain, Behavior and Evolution</i> , 2009, 73, 285-294.	1.7	37
14	Combining diffusion magnetic resonance tractography with stereology highlights increased cross-cortical integration in primates. <i>Journal of Comparative Neurology</i> , 2017, 525, 1075-1093.	1.6	36
15	Variation in Human Brains May Facilitate Evolutionary Change toward a Limited Range of Phenotypes. <i>Brain, Behavior and Evolution</i> , 2013, 81, 74-85.	1.7	34
16	Telencephalon enlargement by the convergent evolution of expanded subventricular zones. <i>Biology Letters</i> , 2009, 5, 134-137.	2.3	30
17	Ex vivo fetal brain MRI: Recent advances, challenges, and future directions. <i>NeuroImage</i> , 2019, 195, 23-37.	4.2	30
18	Developmental basis for telencephalon expansion in waterfowl: enlargement prior to neurogenesis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3421-3427.	2.6	28

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19	Bigger brains cycle faster before neurogenesis begins: a comparison of brain development between chickens and bobwhite quail. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3469-3475.	2.6	28
20	The genetic architecture of DNA replication timing in human pluripotent stem cells. <i>Nature Communications</i> , 2021, 12, 6746.	12.8	26
21	Causes and consequences of expanded subventricular zones. <i>European Journal of Neuroscience</i> , 2011, 34, 988-993.	2.6	24
22	Brain Plasticity in Humans and Model Systems: Advances, Challenges, and Future Directions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9358.	4.1	23
23	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.	2.6	18
24	Gradients in cytoarchitectural landscapes of the isocortex: Diprotodont marsupials in comparison to eutherian mammals. <i>Journal of Comparative Neurology</i> , 2017, 525, 1811-1826.	1.6	15
25	Phylogenetic Origins of Early Alterations in Brain Region Proportions. <i>Brain, Behavior and Evolution</i> , 2010, 75, 104-110.	1.7	13
26	Expansion, folding, and abnormal lamination of the chick optic tectum after intraventricular injections of FGF2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10640-10646.	7.1	13
27	Evolution of Brain Connections: Integrating Diffusion MR Tractography With Gene Expression Highlights Increased Corticocortical Projections in Primates. <i>Cerebral Cortex</i> , 2019, 29, 5150-5165.	2.9	12
28	Evolution of cytoarchitectural landscapes in the mammalian isocortex: Sirenians ( <i>Trichechus</i> ) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 3	1.6	11
29	Brain Wiring and Supragranular-Enriched Genes Linked to Protracted Human Frontal Cortex Development. <i>Cerebral Cortex</i> , 2020, 30, 5654-5666.	2.9	11
30	Closing the gap from transcription to the structural connectome enhances the study of connections in the human brain. <i>Developmental Dynamics</i> , 2020, 249, 1047-1061.	1.8	11
31	Tracing Modification to Cortical Circuits in Human and Nonhuman Primates from High-Resolution Tractography, Transcription, and Temporal Dimensions. <i>Journal of Neuroscience</i> , 2022, 42, 3749-3767.	3.6	10
32	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.	1.6	9
33	Cutting across structural and transcriptomic scales translates time across the lifespan in humans and chimpanzees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202987.	2.6	9
34	Spatiotemporal clustering of cell death in the avian forebrain proliferative zone. <i>International Journal of Developmental Biology</i> , 2008, 52, 345-352.	0.6	9
35	High Angular Resolution Diffusion MRI Reveals Conserved and Deviant Programs in the Paths that Guide Human Cortical Circuitry. <i>Cerebral Cortex</i> , 2020, 30, 1447-1464.	2.9	8
36	A Reduced Progenitor Pool Population Accounts for the Rudimentary Appearance of the Septum, Medial Pallium and Dorsal Pallium in Birds. <i>Brain, Behavior and Evolution</i> , 2010, 76, 289-300.	1.7	7

#	ARTICLE	IF	CITATIONS
37	Distinct developmental growth patterns account for the disproportionate expansion of the rostral and caudal isocortex in evolution. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 190.	2.0	4
38	Developmental Sequences Predict Increased Connectivity in Brain Evolution: A Comparative Analysis of Developmental Timing, Gene Expression, Neuron Numbers, and Diffusion MR Tractography. , 2017, , 81-98.		1