Chris Q Doe

List of Publications by Year in Descending Order

108 papers	9,302 citations	47 h-index	96 g-index
143 ext. papers	10,902 ext. citations	13.6 avg, IF	6.51 L-index

#	Paper	IF	Citations
108	Astrocytes close a motor circuit critical period. *Nature*, **2021**, 592, 414-420	50.4	11
107	A developmental framework linking neurogenesis and circuit formation in the CNS. *ELife*, **2021**, 10,	8.9	4
106	Comparative Connectomics Reveals How Partner Identity, Location, and Activity Specify Synaptic Connectivity in Drosophila. *Neuron*, **2021**, 109, 105-122.e7	13.9	15
105	Establishment and Maintenance of Neural Circuit Architecture. *Journal of Neuroscience*, **2021**, 41, 1119-1129	6.9	4
104	A locomotor neural circuit persists and functions similarly in larvae and adult. *ELife*, **2021**, 10,	8.9	6
103	Mechanosensory input during circuit formation shapes Drosophila motor behavior through patterned spontaneous network activity. *Current Biology*, **2021**, 31, 5341-5349.e4	6.3	2
102	The role of astrocyte-mediated plasticity in neural circuit development and function. *Neural Development*, **2021**, 16, 1	3.9	16
101	Precise levels of nectin-3 are required for proper synapse formation in postnatal visual cortex. *Neural Development*, **2020**, 15, 13	3.9	1
100	A novel temporal identity window generates alternating Eve/Nkx6 motor neuron subtypes in a single progenitor lineage. *Neural Development*, **2020**, 15, 9	3.9	4
99	The Hunchback temporal transcription factor determines motor neuron axon and dendrite targeting in. *Development (Cambridge)*, **2019**, 146,	6.6	15
98	Regulation of subcellular dendritic synapse specificity by axon guidance cues. *ELife*, **2019**, 8,	8.9	11
97	Temporal identity establishes columnar neuron morphology, connectivity, and function in a navigation circuit. *ELife*, **2019**, 8,	8.9	20
96	Neuroblast-specific open chromatin allows the temporal transcription factor, Hunchback, to bind neuroblast-specific loci. *ELife*, **2019**, 8,	8.9	23
95	Author response: Neuroblast-specific open chromatin allows the temporal transcription factor, Hunchback, to bind neuroblast-specific loci **2019**,		2
94	A multilayer circuit architecture for the generation of distinct locomotor behaviors in. *ELife*, **2019**, 8,	8.9	35
93	Drosophila nucleostemin 3 is required to maintain larval neuroblast proliferation. *Developmental Biology*, **2018**, 440, 1-12	3.1	5
92	Neural circuits driving larval locomotion in Drosophila. *Neural Development*, **2018**, 13, 6	3.9	42

91	MDN brain descending neurons coordinately activate backward and inhibit forward locomotion. *ELife*, **2018**, 7,	8.9	35
90	A repressor-decay timer for robust temporal patterning in embryonic neuroblast lineages. *ELife*, **2018**, 7,	8.9	20
89	Author response: A repressor-decay timer for robust temporal patterning in embryonic Drosophila neuroblast lineages **2018**,		2
88	Immunofluorescent antibody staining of intact Drosophila larvae. *Nature Protocols*, **2017**, 12, 1-14	18.8	14
87	Temporal Patterning in the Drosophila CNS. *Annual Review of Cell and Developmental Biology*, **2017**, 33, 219-240	12.6	114
86	Steroid hormone induction of temporal gene expression in brain neuroblasts generates neuronal and glial diversity. *ELife*, **2017**, 6,	8.9	76
85	Playing Well with Others: Extrinsic Cues Regulate Neural Progenitor Temporal Identity to Generate Neuronal Diversity. *Trends in Genetics*, **2017**, 33, 933-942	8.5	23
84	embryonic type II neuroblasts: origin, temporal patterning, and contribution to the adult central complex. *Development (Cambridge)*, **2017**, 144, 4552-4562	6.6	39
83	The Hunchback temporal transcription factor establishes, but is not required to maintain, early-born neuronal identity. *Neural Development*, **2017**, 12, 1	3.9	9
82	Opportunities lost and gained: Changes in progenitor competence during nervous system development. *Neurogenesis (Austin, Tex)*, **2017**, 4, e1324260		5
81	TU-Tagging: A Method for Identifying Layer-Enriched Neuronal Genes in Developing Mouse Visual Cortex. *ENeuro*, **2017**, 4,	3.9	10
80	Author response: Steroid hormone induction of temporal gene expression in Drosophila brain neuroblasts generates neuronal and glial diversity **2017**,		7
79	Functional Genetic Screen to Identify Interneurons Governing Behaviorally Distinct Aspects of Drosophila Larval Motor Programs. *G3: Genes, Genomes, Genetics*, **2016**, 6, 2023-31	3.2	23
78	The RanGEF Bj1 promotes prospero nuclear export and neuroblast self-renewal. *Developmental Neurobiology*, **2015**, 75, 485-93	3.2	6
77	Even-Skipped(+) Interneurons Are Core Components of a Sensorimotor Circuit that Maintains Left-Right Symmetric Muscle Contraction Amplitude. *Neuron*, **2015**, 88, 314-29	13.9	77
76	Aging Neural Progenitors Lose Competence to Respond to Mitogenic Notch Signaling. *Current Biology*, **2015**, 25, 3058-68	6.3	21
75	Applying thiouracil tagging to mouse transcriptome analysis. *Nature Protocols*, **2014**, 9, 410-20	18.8	34
74	Atlas-builder software and the eNeuro atlas: resources for developmental biology and neuroscience. *Development (Cambridge)*, **2014**, 141, 2524-32	6.6	24

73	Transient nuclear Prospero induces neural progenitor quiescence. *ELife*, **2014**, 3,	8.9	45
72	Author response: Transient nuclear Prospero induces neural progenitor quiescence **2014**,		2
71	Temporal fate specification and neural progenitor competence during development. *Nature Reviews Neuroscience*, **2013**, 14, 823-38	13.5	250
70	Mouse TU tagging: a chemical/genetic intersectional method for purifying cell type-specific nascent RNA. *Genes and Development*, **2013**, 27, 98-115	12.6	85
69	Developmentally regulated subnuclear genome reorganization restricts neural progenitor competence in Drosophila. *Cell*, **2013**, 152, 97-108	56.2	121
68	Combinatorial temporal patterning in progenitors expands neural diversity. *Nature*, **2013**, 498, 449-55	50.4	120
67	midlife crisis encodes a conserved zinc-finger protein required to maintain neuronal differentiation in Drosophila. *Development (Cambridge)*, **2013**, 140, 4155-64	6.6	26
66	Functional genomics identifies neural stem cell sub-type expression profiles and genes regulating neuroblast homeostasis. *Developmental Biology*, **2012**, 361, 137-46	3.1	30
65	Sgt1 acts via an LKB1/AMPK pathway to establish cortical polarity in larval neuroblasts. *Developmental Biology*, **2012**, 363, 258-65	3.1	23
64	The Snail family member Worniu is continuously required in neuroblasts to prevent Elav-induced premature differentiation. *Developmental Cell*, **2012**, 23, 849-57	10.2	34
63	A resource for manipulating gene expression and analyzing cis-regulatory modules in the Drosophila CNS. *Cell Reports*, **2012**, 2, 1002-13	10.6	93
62	Identification of hunchback cis-regulatory DNA conferring temporal expression in neuroblasts and neurons. *Gene Expression Patterns*, **2012**, 12, 11-7	1.5	16
61	Neurophysiological defects and neuronal gene deregulation in Drosophila mir-124 mutants. *PLoS Genetics*, **2012**, 8, e1002515	6	41
60	Characterization of Drosophila larval crawling at the level of organism, segment, and somatic body wall musculature. *Journal of Neuroscience*, **2012**, 32, 12460-71	6.6	134
59	Asymmetric cortical extension leads to asymmetric cell division in Drosophila neuroblasts. *FASEB Journal*, **2012**, 26, 591.4	0.9	
58	Asymmetric cortical extension shifts cleavage furrow position in Drosophila neuroblasts. *Molecular Biology of the Cell*, **2011**, 22, 4220-6	3.5	40
57	Canoe binds RanGTP to promote Pins(TPR)/Mud-mediated spindle orientation. *Journal of Cell Biology*, **2011**, 195, 369-76	7.3	51
56	The pipsqueak-domain proteins Distal antenna and Distal antenna-related restrict Hunchback neuroblast expression and early-born neuronal identity. *Development (Cambridge)*, **2011**, 138, 1727-35	6.6	23

55	Recombineering Hunchback identifies two conserved domains required to maintain neuroblast competence and specify early-born neuronal identity. *Development (Cambridge)*, **2010**, 137, 1421-30	6.6	34
54	Drosophila type II neuroblast lineages keep Prospero levels low to generate large clones that contribute to the adult brain central complex. *Neural Development*, **2010**, 5, 26	3.9	86
53	Spindle orientation during asymmetric cell division. *Nature Cell Biology*, **2009**, 11, 365-74	23.4	387
52	TU-tagging: cell type-specific RNA isolation from intact complex tissues. *Nature Methods*, **2009**, 6, 439-41	21.6	141
51	Apical/basal spindle orientation is required for neuroblast homeostasis and neuronal differentiation in Drosophila. *Developmental Cell*, **2009**, 17, 134-41	10.2	120
50	Identification of an Aurora-A/PinsLINKER/Dlg spindle orientation pathway using induced cell polarity in S2 cells. *Cell*, **2009**, 138, 1150-63	56.2	170
49	Twins/PP2A regulates aPKC to control neuroblast cell polarity and self-renewal. *Developmental Biology*, **2009**, 330, 399-405	3.1	42
48	Lis1/dynactin regulates metaphase spindle orientation in Drosophila neuroblasts. *Developmental Biology*, **2008**, 319, 1-9	3.1	85
47	Neural stem cells: balancing self-renewal with differentiation. *Development (Cambridge)*, **2008**, 135, 1575-87	6.6	317
46	Dap160/intersectin binds and activates aPKC to regulate cell polarity and cell cycle progression. *Development (Cambridge)*, **2008**, 135, 2739-46	6.6	44
45	Pdm and Castor close successive temporal identity windows in the NB3-1 lineage. *Development (Cambridge)*, **2008**, 135, 3491-9	6.6	60
44	Tools for neuroanatomy and neurogenetics in Drosophila. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9715-20	11.5	688
43	Drosophila Activin- and the Activin-like product Dawdle function redundantly to regulate proliferation in the larval brain. *Development (Cambridge)*, **2008**, 135, 513-21	6.6	58
42	Identification of Drosophila type II neuroblast lineages containing transit amplifying ganglion mother cells. *Developmental Neurobiology*, **2008**, 68, 1185-95	3.2	255
41	Regulation of neuroblast competence: multiple temporal identity factors specify distinct neuronal fates within a single early competence window. *Genes and Development*, **2006**, 20, 429-34	12.6	68
40	Pdm and Castor specify late-born motor neuron identity in the NB7-1 lineage. *Genes and Development*, **2006**, 20, 2618-27	12.6	85
39	Drosophila Aurora-A kinase inhibits neuroblast self-renewal by regulating aPKC/Numb cortical polarity and spindle orientation. *Genes and Development*, **2006**, 20, 3464-74	12.6	196
38	Chinmo and neuroblast temporal identity. *Cell*, **2006**, 127, 254-6	56.2	6

37	Brat is a Miranda cargo protein that promotes neuronal differentiation and inhibits neuroblast self-renewal. *Developmental Cell*, **2006**, 10, 441-9	10.2	241
36	Zfh1, a somatic motor neuron transcription factor, regulates axon exit from the CNS. *Developmental Biology*, **2006**, 291, 253-63	3.1	40
35	The NuMA-related Mud protein binds Pins and regulates spindle orientation in Drosophila neuroblasts. *Nature Cell Biology*, **2006**, 8, 594-600	23.4	256
34	Lgl, Pins and aPKC regulate neuroblast self-renewal versus differentiation. *Nature*, **2006**, 439, 594-8	50.4	262
33	Regulation of temporal identity transitions in Drosophila neuroblasts. *Developmental Cell*, **2005**, 8, 193-202	10.2	141
32	Drosophila neuroblast 7-3 cell lineage: a model system for studying programmed cell death, Notch/Numb signaling, and sequential specification of ganglion mother cell identity. *Journal of Comparative Neurology*, **2005**, 481, 240-51	3.4	81
31	Scribble protein domain mapping reveals a multistep localization mechanism and domains necessary for establishing cortical polarity. *Journal of Cell Science*, **2004**, 117, 6061-70	5.3	90
30	Zebrafish and fly Nkx6 proteins have similar CNS expression patterns and regulate motoneuron formation. *Development (Cambridge)*, **2004**, 131, 5221-32	6.6	88
29	Baz, Par-6 and aPKC are not required for axon or dendrite specification in Drosophila. *Nature Neuroscience*, **2004**, 7, 1293-5	25.5	62
28	Specification of temporal identity in the developing nervous system. *Annual Review of Cell and Developmental Biology*, **2004**, 20, 619-47	12.6	213
27	Specification of motoneuron fate in Drosophila: integration of positive and negative transcription factor inputs by a minimal eve enhancer. *Journal of Neurobiology*, **2003**, 57, 193-203		23
26	Regulation of neuroblast competence in Drosophila. *Nature*, **2003**, 425, 624-8	50.4	166
25	Drosophila aPKC regulates cell polarity and cell proliferation in neuroblasts and epithelia. *Journal of Cell Biology*, **2003**, 163, 1089-98	7.3	229
24	Drosophila HB9 is expressed in a subset of motoneurons and interneurons, where it regulates gene expression and axon pathfinding. *Journal of Neuroscience*, **2002**, 22, 9143-9	6.6	58
23	Cell polarity: the PARty expands. *Nature Cell Biology*, **2001**, 3, E7-9	23.4	31
22	Drosophila neuroblasts sequentially express transcription factors which specify the temporal identity of their neuronal progeny. *Cell*, **2001**, 106, 511-21	56.2	502
21	DrosophilaAmphiphysin is implicated in protein localization and membrane morphogenesis but not in synaptic vesicle endocytosis. *Development (Cambridge)*, **2001**, 128, 5005-5015	6.6	58
20	The tumour-suppressor genes lgl and dlg regulate basal protein targeting in Drosophila neuroblasts. *Nature*, **2000**, 408, 596-600	50.4	288

19	Staufen-dependent localization of prospero mRNA contributes to neuroblast daughter-cell fate. *Nature*, **1998**, 391, 792-5	50.4	228
18	Neural stem cells: From fly to vertebrates. *Journal of Neurobiology*, **1998**, 36, 111-127		69
17	Neural stem cells: From fly to vertebrates **1998**, 36, 111		1
16	Neural stem cells: From fly to vertebrates **1998**, 36, 111		2
15	Miranda directs Prospero to a daughter cell during Drosophila asymmetric divisions. *Nature*, **1997**, 390, 625-9	50.4	271
14	The embryonic central nervous system lineages of Drosophila melanogaster. I. Neuroblast lineages derived from the ventral half of the neuroectoderm. *Developmental Biology*, **1996**, 179, 41-64	3.1	381
13	Specification of neuroblast identity in the Drosophila embryonic central nervous system by gooseberry-distal. *Nature*, **1995**, 376, 427-30	50.4	81
12	New neuroblast markers and the origin of the aCC/pCC neurons in the Drosophila central nervous system. *Mechanisms of Development*, **1995**, 53, 393-402	1.7	173
11	The prospero gene encodes a divergent homeodomain protein that controls neuronal identity in Drosophila. *Development (Cambridge)*, **1991**, 113, 79-85	6.6	43
10	Control of neuronal fate by the Drosophila segmentation gene even-skipped. *Nature*, **1988**, 333, 376-8	50.4	242
9	Early events in insect neurogenesis. I. Development and segmental differences in the pattern of neuronal precursor cells. *Developmental Biology*, **1985**, 111, 193-205	3.1	232
8	Hunchback activates Bicoid in post-mitotic Pair1 neurons to regulate synapse number		1
7	The Hunchback temporal transcription factor determines motor neuron axon and dendrite targeting in Drosophila		1
6	A developmental framework linking neurogenesis and circuit formation in the Drosophila CNS		3
5	Synaptic specificity is collectively determined by partner identity, location and activity		1
4	Functional Genetic Screen to Identify Interneurons Governing Behaviorally Distinct Aspects of Drosophila Larval Motor Programs		1
3	Astrocytes close a critical period of motor circuit plasticity		4
2	Temporal identity establishes columnar neuron morphology, connectivity, and function in a Drosophila navigation circuit		1