Ajay B Chitnis

List of Publications by Year
in descending order

27 papers	2,923 citations	516710 16 h-index	501196 28 g-index
34 all docs	34 docs citations	34 times ranked	4016 citing authors

#	Article	IF	Citations
1	NetLogo agent-based models as tools for understanding the self-organization of cell fate, morphogenesis and collective migration of the zebrafish posterior Lateral Line primordium. Seminars in Cell and Developmental Biology, 2020, 100, 186-198.	5.0	8
2	Rapid image deconvolution and multiview fusion for optical microscopy. Nature Biotechnology, 2020, 38, 1337-1346.	17.5	105
3	Development of the Zebrafish Posterior Lateral Line System. , 2020, , 66-84.		1
4	Zebrafish Posterior Lateral Line primordium migration requires interactions between a superficial sheath of motile cells and the skin. ELife, 2020, 9, .	6.0	17
5	Cxcl12a induces <i>snail1b</i> expression to initiate collective migration and sequential Fgf-dependent neuromast formation in the zebrafish posterior Lateral Line primordium. Development (Cambridge), 2018, 145, .	2.5	9
6	Time-lapse imaging beyond the diffraction limit. Methods, 2018, 150, 32-41.	3.8	9
7	A framework for understanding morphogenesis and migration of the zebrafish posterior Lateral Line primordium. Mechanisms of Development, 2017, 148, 69-78.	1.7	53
8	In toto imaging of the migrating Zebrafish lateral line primordium at single cell resolution. Developmental Biology, 2017, 422, 14-23.	2.0	21
9	Polarization and migration in the zebrafish posterior lateral line system. PLoS Computational Biology, 2017, 13, e1005451.	3.2	14
10	Self-organizing spots get under your skin. PLoS Biology, 2017, 15, e2004412.	5.6	13
11	Epb41l5 competes with Delta as a substrate for Mib1 to coordinate specification and differentiation of neurons. Development (Cambridge), 2016, 143, 3085-96.	2.5	24
12	Connecting physical cues and tissue patterning. ELife, 2015, 4, e11375.	6.0	1
13	Two-photon instant structured illumination microscopy improves the depth penetration of super-resolution imaging in thick scattering samples. Optica, 2014, 1, 181.	9.3	107
14	Leading and trailing cells cooperate in collective migration of the zebrafish posterior lateral line primordium. Development (Cambridge), 2014, 141, 3188-3196.	2.5	57
15	Instant super-resolution imaging in live cells and embryos via analog image processing. Nature Methods, 2013, 10, 1122-1126.	19.0	355
16	Lef1 regulates Dusp6 to influence neuromast formation and spacing in the zebrafish posterior lateral line primordium. Development (Cambridge), 2013, 140, 2387-2397.	2.5	34
17	Resolution doubling in live, multicellular organisms via multifocal structured illumination microscopy. Nature Methods, 2012, 9, 749-754.	19.0	397
18	Building the posterior lateral line system in zebrafish. Developmental Neurobiology, 2012, 72, 234-255.	3.0	98

#	Article	IF	Citations
19	Atoh1a expression must be restricted by Notch signaling for effective morphogenesis of the posterior lateral line primordium in zebrafish. Development (Cambridge), 2010, 137, 3477-3487.	2.5	65
20	Keeping single minded Expression on the Straight and Narrow. Molecular Cell, 2006, 21, 450-452.	9.7	4
21	Why is delta endocytosis required for effective activation of notch?. Developmental Dynamics, 2006, 235, 886-894.	1.8	83
22	Exploring alternative models of rostralâ€“caudal patterning in the zebrafish neurectoderm with computer simulations. Current Opinion in Genetics and Development, 2004, 14, 415-421.	3.3	4
23	A role for<i>iro1</i>and<i>iro7</i>in the establishment of an anteroposterior compartment of the ectoderm adjacent to the midbrain-hindbrain boundary. Development (Cambridge), 2002, 129, 2317-2327.	2.5	73
24	Specification of an anterior neuroectoderm patterning by Frizzled8a-mediated Wnt8b signalling during late gastrulation in zebrafish. Development (Cambridge), 2002, 129, 4443-4455.	2.5	81
25	Expression of proneural and neurogenic genes in the zebrafish lateral line primordium correlates with selection of hair cell fate in neuromasts. Mechanisms of Development, 2001, 102, 263-266.	1.7	142
26	Notch signaling is required for arterial-venous differentiation during embryonic vascular development. Development (Cambridge), 2001, 128, 3675-3683.	2.5	768
27	Repressor activity of Headless/Tcf3 is essential for vertebrate head formation. Nature, 2000, 407, 913-916.	27.8	364