Venugopala Gonehal

List of Publications by Year
in descending order

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26 papers	2,334 citations	623734 14 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	2242 citing authors

#	Article	IF	Citations
1	Combined computational modeling and experimental analysis integrating chemical and mechanical signals suggests possible mechanism of shoot meristem maintenance. PLoS Computational Biology, 2022, 18, e1010199.	3.2	5
2	CLAVATA3 mediated simultaneous control of transcriptional and post-translational processes provides robustness to the WUSCHEL gradient. Nature Communications, 2021, 12, 6361.	12.8	16
3	Deep Quantized Representation For Enhanced Reconstruction. , 2020, , .		2
4	Shoot meristem maintenance and immune response signaling converge at the G protein Î² subunit. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1842-1844.	7.1	0
5	Cell-Based Model of the Generation and Maintenance of the Shape and Structure of the Multilayered Shoot Apical Meristem of Arabidopsis thaliana. Bulletin of Mathematical Biology, 2019, 81, 3245-3281.	1.9	11
6	Cytokinin stabilizes WUSCHEL by acting on the protein domains required for nuclear enrichment and transcription. PLoS Genetics, 2018, 14, e1007351.	3.5	41
7	Threshold-dependent transcriptional discrimination underlies stem cell homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6298-E6306.	7.1	109
8	DNA-dependent homodimerization, sub-cellular partitioning, and protein destabilization control WUSCHEL levels and spatial patterning. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6307-E6315.	7.1	55
9	A high-resolution gene expression map of the Arabidopsis shoot meristem stem cell niche. Development (Cambridge), 2014, 141, 2735-2744.	2.5	110
10	Fluorescence Activated Cell Sorting of Shoot Apical Meristem Cell Types. Methods in Molecular Biology, 2014, 1110, 315-321.	0.9	4
11	Plant stem cell maintenance involves direct transcriptional repression of differentiation program. Molecular Systems Biology, 2013, 9, 654.	7.2	126
12	Cell Resolution 3D Reconstruction of Developing Multilayer Tissues from Sparsely Sampled Volumetric Microscopy Images. , 2011, , .		4
13	WUSCHEL-mediated cellular feedback network imparts robustness to stem cell homeostasis. Plant Signaling and Behavior, 2011, 6, 544-546.	2.4	4
14	WUSCHEL protein movement mediates stem cell homeostasis in the Arabidopsis shoot apex. Genes and Development, 2011, 25, 2025-2030.	5.9	522
15	Automated tracking of stem cell lineages of Arabidopsis shoot apex using local graph matching. Plant Journal, 2010, 62, 135-147.	5.7	34
16	Pattern analysis of stem cell growth dynamics in the shoot apex of arabidopsis. , 2010, , .		7
17	WUSCHEL mediates stem cell homeostasis by regulating stem cell number and patterns of cell division and differentiation of stem cell progenitors. Development (Cambridge), 2010, 137, 3581-3589.	2.5	118
18	Gene expression map of the Arabidopsis shoot apical meristem stem cell niche. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4941-4946.	7.1	299

#	Article	IF	Citations
19	Robust estimation of stem cell lineages using local graph matching. , 2009, , .		3
20	Live-Imaging and Image Processing of Shoot Apical Meristems of Arabidopsis thaliana. Methods in Molecular Biology, 2009, 553, 305-316.	0.9	15
21	Robust estimation of stem cell lineages using local graph matching. , 2009, , .		1
22	Live-imaging stem-cell homeostasis in the Arabidopsis shoot apex. Current Opinion in Plant Biology, 2008, 11, 88-93.	7.1	46
23	Unravelling developmental dynamics: transient intervention and live imaging in plants. Nature Reviews Molecular Cell Biology, 2007, 8, 491-501.	37.0	42
24	Stem-Cell Homeostasis and Growth Dynamics Can Be Uncoupled in the Arabidopsis Shoot Apex. Science, 2005, 310, 663-667.	12.6	240
25	Real-time lineage analysis reveals oriented cell divisions associated with morphogenesis at the shoot apex of Arabidopsis thaliana. Development (Cambridge), 2004, 131, 4225-4237.	2.5	299
26	Combined SHOOT MERISTEMLESS and WUSCHEL trigger ectopic organogenesis inArabidopsis. Development (Cambridge), 2002, 129, 3207-3217.	2.5	221