

# Marcus G Heisler

## List of Publications by Citations

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38  
papers

5,325  
citations

25  
h-index

47  
g-index

47  
ext. papers

6,216  
ext. citations

10.9  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
38	Patterns of auxin transport and gene expression during primordium development revealed by live imaging of the Arabidopsis inflorescence meristem. <i>Current Biology</i> , <b>2005</b> , 15, 1899-911	6.3	858
37	Accounting for technical noise in single-cell RNA-seq experiments. <i>Nature Methods</i> , <b>2013</b> , 10, 1093-5	21.6	659
36	Developmental patterning by mechanical signals in Arabidopsis. <i>Science</i> , <b>2008</b> , 322, 1650-5	33.3	643
35	Antagonistic regulation of PIN phosphorylation by PP2A and PINOID directs auxin flux. <i>Cell</i> , <b>2007</b> , 130, 1044-56	56.2	530
34	An auxin-driven polarized transport model for phyllotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 1633-8	11.5	475
33	Alignment between PIN1 polarity and microtubule orientation in the shoot apical meristem reveals a tight coupling between morphogenesis and auxin transport. <i>PLoS Biology</i> , <b>2010</b> , 8, e1000516	9.7	310
32	Real-time lineage analysis reveals oriented cell divisions associated with morphogenesis at the shoot apex of Arabidopsis thaliana. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 4225-37	6.6	256
31	Pattern formation during de novo assembly of the Arabidopsis shoot meristem. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 3539-48	6.6	255
30	The Arabidopsis JAGGED gene encodes a zinc finger protein that promotes leaf tissue development. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 1111-22	6.6	191
29	Cytokinin signaling as a positional cue for patterning the apical-basal axis of the growing Arabidopsis shoot meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4002-7	11.5	157
28	Modeling the organization of the WUSCHEL expression domain in the shoot apical meristem. <i>Bioinformatics</i> , <b>2005</b> , 21 Suppl 1, i232-40	7.2	109
27	Plant stem cell maintenance involves direct transcriptional repression of differentiation program. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 654	12.2	108
26	Auxin Acts through MONOPTEROS to Regulate Plant Cell Polarity and Pattern Phyllotaxis. <i>Current Biology</i> , <b>2016</b> , 26, 3202-3208	6.3	74
25	Cell type boundaries organize plant development. <i>ELife</i> , <b>2017</b> , 6,	8.9	67
24	Regulation of MIR165/166 by class II and class III homeodomain leucine zipper proteins establishes leaf polarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11973-11978	11.5	65
23	Integrated genetic and computation methods for in planta cytometry. <i>Nature Methods</i> , <b>2012</b> , 9, 483-5	21.6	63
22	Modeling Auxin Transport and Plant Development. <i>Journal of Plant Growth Regulation</i> , <b>2006</b> , 25, 302-314.	7	59

21	Two-Step Regulation of a Meristematic Cell Population Acting in Shoot Branching in Arabidopsis. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1006168	6	58
20	In situ hybridization for mRNA detection in Arabidopsis tissue sections. <i>Nature Protocols</i> , <b>2006</b> , 1, 1462-718.8		54
19	Alternate wiring of a KNOXI genetic network underlies differences in leaf development of <i>A. thaliana</i> and <i>C. hirsuta</i> . <i>Genes and Development</i> , <b>2015</b> , 29, 2391-404	12.6	51
18	Genome-wide identification of KANADI1 target genes. <i>PLoS ONE</i> , <b>2013</b> , 8, e77341	3.7	42
17	Modelling meristem development in plants. <i>Current Opinion in Plant Biology</i> , <b>2007</b> , 10, 92-7	9.9	34
16	Apical-basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 12-4	13.1	34
15	Calcium signals are necessary to establish auxin transporter polarity in a plant stem cell niche. <i>Nature Communications</i> , <b>2019</b> , 10, 726	17.4	29
14	The shady side of leaf development: the role of the REVOLUTA/KANADI1 module in leaf patterning and auxin-mediated growth promotion. <i>Current Opinion in Plant Biology</i> , <b>2017</b> , 35, 111-116	9.9	27
13	Live-imaging of plant development: latest approaches. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 33-40	9.9	20
12	Cytokinin signalling regulates organ identity via the AHK4 receptor in. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	20
11	Progress in understanding the role of auxin in lateral organ development in plants. <i>Current Opinion in Plant Biology</i> , <b>2020</b> , 53, 73-79	9.9	18
10	Self-organizing periodicity in development: organ positioning in plants. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	17
9	Quantitative analysis of auxin sensing in leaf primordia argues against proposed role in regulating leaf dorsoventrality. <i>ELife</i> , <b>2019</b> , 8,	8.9	14
8	Live-imaging of the Arabidopsis inflorescence meristem. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1110, 431-404	10.4	14
7	An integrated analysis of cell-type specific gene expression reveals genes regulated by REVOLUTA and KANADI1 in the Arabidopsis shoot apical meristem. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008661	6	5
6	A Software Architecture for Developmental Modeling in Plants: The Computable Plant Project <b>2006</b> , 345-354		2
5	Integration of Core Mechanisms Underlying Plant Aerial Architecture. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 786338	6.2	1
4	Live Imaging of Arabidopsis Leaf and Vegetative Meristem Development. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2200, 295-302	1.4	1

- 3 Auxin is not asymmetrically distributed in initiating Arabidopsis leaves 1
- 2 PIN-FORMED1 polarity in the shoot is insensitive to the polarity of neighbouring cells 1
- 1 Computer Modeling of Plant Development. *Journal of Plant Growth Regulation*, **2006**, 25, 267-269 4-7