

# Hidehiro Fukaki

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

4,809  
citations

30  
h-index

58  
g-index

58  
ext. papers

5,955  
ext. citations

8.1  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
52	ARF7 and ARF19 regulate lateral root formation via direct activation of LBD/ASL genes in Arabidopsis. <i>Plant Cell</i> , <b>2007</b> , 19, 118-30	11.6	596
51	Lateral root formation is blocked by a gain-of-function mutation in the SOLITARY-ROOT/IAA14 gene of Arabidopsis. <i>Plant Journal</i> , <b>2002</b> , 29, 153-68	6.9	518
50	Auxin control of root development. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2010</b> , 2, a001537	10.2	462
49	Lateral root development in Arabidopsis: fifty shades of auxin. <i>Trends in Plant Science</i> , <b>2013</b> , 18, 450-8	13.1	410
48	Hormone interactions during lateral root formation. <i>Plant Molecular Biology</i> , <b>2009</b> , 69, 437-49	4.6	314
47	Cell cycle progression in the pericycle is not sufficient for SOLITARY ROOT/IAA14-mediated lateral root initiation in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2005</b> , 17, 3035-50	11.6	253
46	Tissue-specific expression of stabilized SOLITARY-ROOT/IAA14 alters lateral root development in Arabidopsis. <i>Plant Journal</i> , <b>2005</b> , 44, 382-95	6.9	193
45	The establishment of asymmetry in Arabidopsis lateral root founder cells is regulated by LBD16/ASL18 and related LBD/ASL proteins. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 883-93	6.6	173
44	The auxin-regulated AP2/EREBP gene PUCHI is required for morphogenesis in the early lateral root primordium of Arabidopsis. <i>Plant Cell</i> , <b>2007</b> , 19, 2156-68	11.6	141
43	Auxin-mediated lateral root formation in higher plants. <i>International Review of Cytology</i> , <b>2007</b> , 256, 111-37		139
42	PICKLE is required for SOLITARY-ROOT/IAA14-mediated repression of ARF7 and ARF19 activity during Arabidopsis lateral root initiation. <i>Plant Journal</i> , <b>2006</b> , 48, 380-9	6.9	129
41	Multiple AUX/IAA-ARF modules regulate lateral root formation: the role of Arabidopsis SHY2/IAA3-mediated auxin signalling. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 367, 1461-8	5.8	126
40	Regulation of root greening by light and auxin/cytokinin signaling in Arabidopsis. <i>Plant Cell</i> , <b>2012</b> , 24, 1081-95	11.6	125
39	Domain II mutations in CRANE/IAA18 suppress lateral root formation and affect shoot development in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , <b>2008</b> , 49, 1025-38	4.9	96
38	Root branching toward water involves posttranslational modification of transcription factor ARF7. <i>Science</i> , <b>2018</b> , 362, 1407-1410	33.3	96
37	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. <i>Nature Communications</i> , <b>2015</b> , 6, 7641	17.4	83
36	Lateral root emergence in Arabidopsis is dependent on transcription factor LBD29 regulation of auxin influx carrier LAX3. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3340-9	6.6	78

35	Cell-specific localization of alkaloids in <i>Catharanthus roseus</i> stem tissue measured with Imaging MS and Single-cell MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3891-6	11.5	69
34	Inference of the <i>Arabidopsis</i> lateral root gene regulatory network suggests a bifurcation mechanism that defines primordia flanking and central zones. <i>Plant Cell</i> , <b>2015</b> , 27, 1368-88	11.6	69
33	Chloroplastic ATP synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. <i>Plant Journal</i> , <b>2017</b> , 91, 306-324	6.9	68
32	Involvement of auxin signaling mediated by IAA14 and ARF7/19 in membrane lipid remodeling during phosphate starvation. <i>Plant Molecular Biology</i> , <b>2010</b> , 72, 533-44	4.6	65
31	A Positive Regulator of Nodule Organogenesis, NODULE INCEPTION, Acts as a Negative Regulator of Rhizobial Infection in <i>Lotus japonicus</i> . <i>Plant Physiology</i> , <b>2014</b> , 165, 747-758	6.6	61
30	Auxin-dependent compositional change in Mediator in ARF7- and ARF19-mediated transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6562-7	11.5	53
29	A coherent transcriptional feed-forward motif model for mediating auxin-sensitive PIN3 expression during lateral root development. <i>Nature Communications</i> , <b>2015</b> , 6, 8821	17.4	45
28	Quiescent center initiation in the <i>Arabidopsis</i> lateral root primordia is dependent on the SCARECROW transcription factor. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3363-71	6.6	45
27	RALFL34 regulates formative cell divisions in <i>Arabidopsis</i> pericycle during lateral root initiation. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4863-75	7	42
26	A role for LATERAL ORGAN BOUNDARIES-DOMAIN 16 during the interaction <i>Arabidopsis</i> - <i>Meloidogyne</i> spp. provides a molecular link between lateral root and root-knot nematode feeding site development. <i>New Phytologist</i> , <b>2014</b> , 203, 632-645	9.8	40
25	Lateral Inhibition by a Peptide Hormone-Receptor Cascade during <i>Arabidopsis</i> Lateral Root Founder Cell Formation. <i>Developmental Cell</i> , <b>2019</b> , 48, 64-75.e5	10.2	37
24	The complexity of intercellular localisation of alkaloids revealed by single-cell metabolomics. <i>New Phytologist</i> , <b>2019</b> , 224, 848-859	9.8	31
23	GNOM/FEWER ROOTS is required for the establishment of an auxin response maximum for <i>arabidopsis</i> lateral root initiation. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 406-17	4.9	31
22	Cytoskeleton Dynamics Are Necessary for Early Events of Lateral Root Initiation in <i>Arabidopsis</i> . <i>Current Biology</i> , <b>2019</b> , 29, 2443-2454.e5	6.3	26
21	Reactive oxygen species and reactive carbonyl species constitute a feed-forward loop in auxin signaling for lateral root formation. <i>Plant Journal</i> , <b>2019</b> , 100, 536-548	6.9	26
20	PUCHI regulates very long chain fatty acid biosynthesis during lateral root and callus formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 14325-14330	11.5	23
19	Lateral root initiation requires the sequential induction of transcription factors LBD16 and PUCHI in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , <b>2019</b> , 224, 749-760	9.8	23
18	Mitochondrial Pyruvate Dehydrogenase Contributes to Auxin-Regulated Organ Development. <i>Plant Physiology</i> , <b>2019</b> , 180, 896-909	6.6	20

17	Jasmonic Acid Inhibits Auxin-Induced Lateral Rooting Independently of the CORONATINE INSENSITIVE1 Receptor. <i>Plant Physiology</i> , <b>2018</b> , 177, 1704-1716	6.6	20
16	Root-knot nematodes induce gall formation by recruiting developmental pathways of post-embryonic organogenesis and regeneration to promote transient pluripotency. <i>New Phytologist</i> , <b>2020</b> , 227, 200-215	9.8	15
15	Molecular Transducers from Roots Are Triggered in Arabidopsis Leaves by Root-Knot Nematodes for Successful Feeding Site Formation: A Conserved Post-Embryogenic Organogenesis Program?. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 875	6.2	13
14	RLF, a cytochrome b(5)-like heme/steroid binding domain protein, controls lateral root formation independently of ARF7/19-mediated auxin signaling in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2010</b> , 62, 865-875	6.9	13
13	Altered levels of primary metabolites in response to exogenous indole-3-acetic acid in wild type and auxin signaling mutants of Arabidopsis thaliana: A capillary electrophoresis-mass spectrometry analysis. <i>Plant Biotechnology</i> , <b>2015</b> , 32, 65-79	1.3	10
12	Plant meristems and organogenesis: the new era of plant developmental research. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 295-301	4.9	6
11	Involvement of Ca <sup>2+</sup> in Vacuole Degradation Caused by a Rapid Temperature Decrease in Saintpaulia Palisade Cells: A Case of Gene Expression Analysis in a Specialized Small Tissue. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 1297-305	4.9	5
10	Inositol Hexakis Phosphate is the Seasonal Phosphorus Reservoir in the Deciduous Woody Plant Populus alba L. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 1477-1485	4.9	5
9	Peptide-Receptor Signaling Controls Lateral Root Development. <i>Plant Physiology</i> , <b>2020</b> , 182, 1645-1656	6.6	5
8	Molecular Components of Arabidopsis Intact Vacuoles Clarified with Metabolomic and Proteomic Analyses. <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 1353-1362	4.9	3
7	Tissue growth constrains root organ outlines into an isometrically scalable shape. <i>Development (Cambridge)</i> , <b>2021</b> , 148,	6.6	3
6	Mutations in Plastidial 5-Aminolevulinic Acid Biosynthesis Genes Suppress a Pleiotropic Defect in Shoot Development of a Mitochondrial GABA Shunt Mutant in Arabidopsis. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 1229-38	4.9	1
5	Two phylogenetically unrelated peptide-receptor modules jointly regulate lateral root initiation via a partially shared signaling pathway in Arabidopsis thaliana.. <i>New Phytologist</i> , <b>2021</b> ,	9.8	1
4	Differential regulation of fluorescent alkaloid metabolism between idioblast and laticifer cells during leaf development in Catharanthus roseus seedlings.. <i>Journal of Plant Research</i> , <b>2022</b> , 1	2.6	1
3	Aerial (+)-borneol modulates root morphology, auxin signalling and meristematic activity in Arabidopsis roots.. <i>Biology Letters</i> , <b>2022</b> , 18, 20210629	3.6	0
2	?????????????????????. <i>Kagaku To Seibutsu</i> , <b>2020</b> , 58, 322-324	0	
1	Localization of small molecules in plant tissues visualized by an imaging mass spectrometer. <i>Plant Morphology</i> , <b>2016</b> , 28, 23-27	0	