

Rosangela Sozzani

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,908
citations

136950

32
h-index

138484

58
g-index

72
all docs

72
docs citations

72
times ranked

4893
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene regulatory networks for compatible versus incompatible grafts identify a role for SIWOX4 during junction formation. <i>Plant Cell</i> , 2022, 34, 535-556.	6.6	24
2	Field-grown soybean shows genotypic variation in physiological and seed composition responses to heat stress during seed development. <i>Environmental and Experimental Botany</i> , 2022, 195, 104768.	4.2	12
3	Quantifying Intercellular Movement and Protein Stoichiometry for Computational Modeling. <i>Methods in Molecular Biology</i> , 2022, 2457, 367-382.	0.9	0
4	A hybrid model connecting regulatory interactions with stem cell divisions in the root. <i>Quantitative Plant Biology</i> , 2021, 2, .	2.0	25
5	Divide and Conquer: The Initiation and Proliferation of Meristems. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 147-156.	5.7	6
6	Down-regulation of Fra a 1.02 in strawberry fruits causes transcriptomic and metabolic changes compatible with an altered defense response. <i>Horticulture Research</i> , 2021, 8, 58.	6.3	2
7	Precise transcriptional control of cellular quiescence by BRAVO/WOX5 complex in <i>Arabidopsis</i> roots. <i>Molecular Systems Biology</i> , 2021, 17, e9864.	7.2	11
8	Spatiotemporal Gene Expression Profiling and Network Inference: A Roadmap for Analysis, Visualization, and Key Gene Identification. <i>Methods in Molecular Biology</i> , 2021, 2328, 47-65.	0.9	2
9	Integrated omics networks reveal the temporal signaling events of brassinosteroid response in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2021, 12, 5858.	12.8	54
10	Tissue Regeneration with Hydrogel Encapsulation: A Review of Developments in Plants and Animals. <i>BioDesign Research</i> , 2021, 2021, .	1.9	2
11	Cell-by-cell dissection of phloem development links a maturation gradient to cell specialization. <i>Science</i> , 2021, 374, eaba5531.	12.6	60
12	RNA-Seq and Gene Regulatory Network Analyses Uncover Candidate Genes in the Early Defense to Two Hemibiotrophic <i>Colletorichum</i> spp. in Strawberry. <i>Frontiers in Genetics</i> , 2021, 12, 805771.	2.3	3
13	Characterizing the involvement of <i>FaMADS9</i> in the regulation of strawberry fruit receptacle development. <i>Plant Biotechnology Journal</i> , 2020, 18, 929-943.	8.3	25
14	<i>tuxnet</i> : a simple interface to process RNA sequencing data and infer gene regulatory networks. <i>Plant Journal</i> , 2020, 101, 716-730.	5.7	20
15	Editorial overview: Directionality and precision - how signaling and gene regulation drive plant development and growth. <i>Current Opinion in Plant Biology</i> , 2020, 57, A1-A3.	7.1	0
16	Current status of the multinational <i>Arabidopsis</i> community. <i>Plant Direct</i> , 2020, 4, e00248.	1.9	13
17	BAM1/2 receptor kinase signaling drives CLE peptide-mediated formative cell divisions in <i>Arabidopsis</i> roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32750-32756.	7.1	38
18	Protein complex stoichiometry and expression dynamics of transcription factors modulate stem cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15332-15342.	7.1	34

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19	Gene Regulatory Network Inference: Connecting Plant Biology and Mathematical Modeling. <i>Frontiers in Genetics</i> , 2020, 11, 457.	2.3	29
20	Novel Imaging Modalities Shedding Light on Plant Biology: Start Small and Grow Big. <i>Annual Review of Plant Biology</i> , 2020, 71, 789-816.	18.7	22
21	MAGIC: Live imaging of cellular division in plant seedlings using lightsheet microscopy. <i>Methods in Cell Biology</i> , 2020, 160, 405-418.	1.1	1
22	BioVision Tracker: A semi-automated image analysis software for spatiotemporal gene expression tracking in <i>Arabidopsis thaliana</i> . <i>Methods in Cell Biology</i> , 2020, 160, 419-436.	1.1	1
23	Nucleo-cytoplasmic Partitioning of ARF Proteins Controls Auxin Responses in <i>Arabidopsis thaliana</i> . <i>Molecular Cell</i> , 2019, 76, 177-190.e5.	9.7	165
24	DOF2.1 Controls Cytokinin-Dependent Vascular Cell Proliferation Downstream of TMO5/LHW. <i>Current Biology</i> , 2019, 29, 520-529.e6.	3.9	80
25	The Lateral Root Cap Acts as an Auxin Sink that Controls Meristem Size. <i>Current Biology</i> , 2019, 29, 1199-1205.e4.	3.9	72
26	Stem-cell-ubiquitous genes spatiotemporally coordinate division through regulation of stem-cell-specific gene networks. <i>Nature Communications</i> , 2019, 10, 5574.	12.8	62
27	Automated Imaging, Tracking, and Analytics Pipeline for Differentiating Environmental Effects on Root Meristematic Cell Division. <i>Frontiers in Plant Science</i> , 2019, 10, 1487.	3.6	10
28	Computational prediction of gene regulatory networks in plant growth and development. <i>Current Opinion in Plant Biology</i> , 2019, 47, 96-105.	7.1	66
29	Mobile PEAR transcription factors integrate positional cues to prime cambial growth. <i>Nature</i> , 2019, 565, 490-494.	27.8	195
30	GTL1 and DF1 regulate root hair growth through transcriptional repression of <i>ROOT HAIR DEFECTIVE 6-LIKE 4</i> in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	63
31	Tracking Gene Expression via Light Sheet Microscopy and Computer Vision in Living Organisms. , 2018, 2018, 818-821.		4
32	Identifying Differentially Expressed Genes Using Fluorescence-Activated Cell Sorting (FACS) and RNA Sequencing from Low Input Samples. <i>Methods in Molecular Biology</i> , 2018, 1819, 139-151.	0.9	8
33	Exposure to heavy metal stress triggers changes in plasmodesmatal permeability via deposition and breakdown of callose. <i>Journal of Experimental Botany</i> , 2018, 69, 3715-3728.	4.8	56
34	Measuring Protein Movement, Oligomerization State, and Protein-Protein Interaction in <i>Arabidopsis</i> Roots Using Scanning Fluorescence Correlation Spectroscopy (Scanning FCS). <i>Methods in Molecular Biology</i> , 2017, 1610, 251-266.	0.9	12
35	Framework for gradual progression of cell ontogeny in the <i>Arabidopsis</i> root meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8922-E8929.	7.1	46
36	Predicting gene regulatory networks by combining spatial and temporal gene expression data in <i>Arabidopsis</i> root stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7632-E7640.	7.1	82

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37	Auxin minimum triggers the developmental switch from cell division to cell differentiation in the <i>Arabidopsis</i> root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7641-E7649.	7.1	193
38	Genetic Architecture and Molecular Networks Underlying Leaf Thickness in Desert-Adapted Tomato <i>Solanum pennellii</i> . <i>Plant Physiology</i> , 2017, 175, 376-391.	4.8	38
39	Dose-Duration Reciprocity for G protein activation: Modulation of kinase to substrate ratio alters cell signaling. <i>PLoS ONE</i> , 2017, 12, e0190000.	2.5	13
40	Inferring Gene Regulatory Networks in the Arabidopsis Root Using a Dynamic Bayesian Network Approach. <i>Methods in Molecular Biology</i> , 2017, 1629, 331-348.	0.9	17
41	Multi-sample Arabidopsis Growth and Imaging Chamber (MAGIC) for long term imaging in the ZEISS Lightsheet Z.1. <i>Developmental Biology</i> , 2016, 419, 19-25.	2.0	33
42	Light sheet microscopy reveals more gradual light attenuation in light-green versus dark-green soybean leaves. <i>Journal of Experimental Botany</i> , 2016, 67, 4697-4709.	4.8	37
43	Uncovering the networks involved in stem cell maintenance and asymmetric cell division in the Arabidopsis root. <i>Current Opinion in Plant Biology</i> , 2016, 29, 38-43.	7.1	40
44	Tracking transcription factor mobility and interaction in Arabidopsis roots with fluorescence correlation spectroscopy. <i>ELife</i> , 2016, 5, .	6.0	79
45	Transcriptional control of tissue formation throughout root development. <i>Science</i> , 2015, 350, 426-430.	12.6	128
46	Experimental data and computational modeling link auxin gradient and development in the Arabidopsis root. <i>Frontiers in Plant Science</i> , 2014, 5, 328.	3.6	17
47	Omics and modelling approaches for understanding regulation of asymmetric cell divisions in arabidopsis and other angiosperm plants. <i>Annals of Botany</i> , 2014, 113, 1083-1105.	2.9	38
48	Postembryonic control of root meristem growth and development. <i>Current Opinion in Plant Biology</i> , 2014, 17, 7-12.	7.1	69
49	Advanced imaging techniques for the study of plant growth and development. <i>Trends in Plant Science</i> , 2014, 19, 304-310.	8.8	72
50	Intercellular Protein Movement: Deciphering the Language of Development. <i>Annual Review of Cell and Developmental Biology</i> , 2014, 30, 207-233.	9.4	52
51	Spatial Coordination between Stem Cell Activity and Cell Differentiation in the Root Meristem. <i>Developmental Cell</i> , 2013, 26, 405-415.	7.0	113
52	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. <i>Cell</i> , 2012, 150, 1002-1015.	28.9	273
53	Integrative systems biology: an attempt to describe a simple weed. <i>Current Opinion in Plant Biology</i> , 2012, 15, 162-167.	7.1	38
54	High-throughput phenotyping of multicellular organisms: finding the link between genotype and phenotype. <i>Genome Biology</i> , 2011, 12, 219.	9.6	44

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55	Arabidopsis Homologs of the <i>Petunia</i> <i>HAIRY MERISTEM</i> Gene Are Required for Maintenance of Shoot and Root Indeterminacy. <i>Plant Physiology</i> , 2011, 155, 735-750.	4.8	116
56	The E2FD/DEL2 factor is a component of a regulatory network controlling cell proliferation and development in Arabidopsis. <i>Plant Molecular Biology</i> , 2010, 72, 381-395.	3.9	48
57	Spatiotemporal regulation of cell-cycle genes by SHORTROOT links patterning and growth. <i>Nature</i> , 2010, 466, 128-132.	27.8	385
58	The Arabidopsis <i>MCM2</i> gene is essential to embryo development and its overexpression alters root meristem function. <i>New Phytologist</i> , 2009, 184, 311-322.	7.3	49
59	Global Analysis of Arabidopsis Gene Expression Uncovers a Complex Array of Changes Impacting Pathogen Response and Cell Cycle during Geminivirus Infection. <i>Plant Physiology</i> , 2008, 148, 436-454.	4.8	448
60	Interplay between Arabidopsis Activating Factors E2Fb and E2Fa in Cell Cycle Progression and Development. <i>Plant Physiology</i> , 2006, 140, 1355-1366.	4.8	146
61	Two cell-cycle regulated SET-domain proteins interact with proliferating cell nuclear antigen (PCNA) in Arabidopsis. <i>Plant Journal</i> , 2006, 47, 395-407.	5.7	97