

CÃ©lia Baroux

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,099
citations

218677

26
h-index

168389

53
g-index

62
all docs

62
docs citations

62
times ranked

3445
citing authors

#	ARTICLE	IF	CITATIONS
1	The INDEPTH (Impact of Nuclear Domains on Gene Expression and Plant Traits) Academy: a community resource for plant science. <i>Journal of Experimental Botany</i> , 2022, , .	4.8	3
2	A procedure for Dex-induced gene transactivation in <i>Arabidopsis</i> ovules. <i>Plant Methods</i> , 2022, 18, 41.	4.3	2
3	Organ geometry channels reproductive cell fate in the <i>Arabidopsis</i> ovule primordium. <i>ELife</i> , 2021, 10, .	6.0	24
4	Three-dimensional genome organization in epigenetic regulations: cause or consequence?. <i>Current Opinion in Plant Biology</i> , 2021, 61, 102031.	7.1	4
5	Impact of Transposable Elements on Methylation and Gene Expression across Natural Accessions of <i>Brachypodium distachyon</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 1994-2001.	2.5	20
6	Linker histones are fine-scale chromatin architects modulating developmental decisions in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2019, 20, 157.	8.8	67
7	Probing the 3D architecture of the plant nucleus with microscopy approaches: challenges and solutions. <i>Nucleus</i> , 2019, 10, 181-212.	2.2	30
8	The SMC5/6 Complex Subunit NSE4A Is Involved in DNA Damage Repair and Seed Development. <i>Plant Cell</i> , 2019, 31, 1579-1597.	6.6	27
9	Seeds – An evolutionary innovation underlying reproductive success in flowering plants. <i>Current Topics in Developmental Biology</i> , 2019, 131, 605-642.	2.2	30
10	Cell-Type Specific Chromatin Analysis in Whole-Mount Plant Tissues by Immunostaining. <i>Methods in Molecular Biology</i> , 2018, 1675, 443-454.	0.9	10
11	Technical Review: Microscopy and Image Processing Tools to Analyze Plant Chromatin: Practical Considerations. <i>Methods in Molecular Biology</i> , 2018, 1675, 537-589.	0.9	16
12	Automated 3D Gene Position Analysis Using a Customized Imaris Plugin: XTFISHInsideNucleus. <i>Methods in Molecular Biology</i> , 2018, 1675, 591-613.	0.9	7
13	Transmission Electron Microscopy Imaging to Analyze Chromatin Density Distribution at the Nanoscale Level. <i>Methods in Molecular Biology</i> , 2018, 1675, 633-651.	0.9	6
14	Meeting report – INDEPTH kick-off meeting. <i>Journal of Cell Science</i> , 2018, 131, jcs220558.	2.0	4
15	Aberrant imprinting may underlie evolution of parthenogenesis. <i>Scientific Reports</i> , 2018, 8, 10626.	3.3	12
16	Non-random chromosome arrangement in triploid endosperm nuclei. <i>Chromosoma</i> , 2017, 126, 115-124.	2.2	16
17	Phylogeny-Based Systematization of <i>Arabidopsis</i> Proteins with Histone H1 Globular Domain. <i>Plant Physiology</i> , 2017, 174, 27-34.	4.8	28
18	PHO1 Exports Phosphate from the Chalazal Seed Coat to the Embryo in Developing <i>Arabidopsis</i> Seeds. <i>Current Biology</i> , 2017, 27, 2893-2900.e3.	3.9	31

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19	3D Imaging of Whole-Mount Ovules at Cellular Resolution to Study Female Germline Development in Rice. <i>Methods in Molecular Biology</i> , 2017, 1669, 37-45.	0.9	4
20	Unreeling the chromatin thread: a genomic perspective on organization around the periphery of the Arabidopsis nucleus. <i>Genome Biology</i> , 2017, 18, 97.	8.8	5
21	Analysis of 3D Cellular Organization of Fixed Plant Tissues Using a User-guided Platform for Image Segmentation. <i>Bio-protocol</i> , 2017, 7, e2355.	0.4	8
22	Quantitative Genetics Identifies Cryptic Genetic Variation Involved in the Paternal Regulation of Seed Development. <i>PLoS Genetics</i> , 2016, 12, e1005806.	3.5	20
23	Chromatin dynamics during cellular differentiation in the female reproductive lineage of flowering plants. <i>Plant Journal</i> , 2015, 83, 160-176.	5.7	43
24	Chromatin dynamics in pollen mother cells underpin a common scenario at the somatic-to-reproductive fate transition of both the male and female lineages in Arabidopsis. <i>Frontiers in Plant Science</i> , 2015, 6, 294.	3.6	52
25	The Maternal-to-Zygotic Transition in Flowering Plants. <i>Current Topics in Developmental Biology</i> , 2015, 113, 351-371.	2.2	32
26	Chromatin dynamics during plant sexual reproduction. <i>Frontiers in Plant Science</i> , 2014, 5, 354.	3.6	33
27	Meiotic chromosome movements in plants, a puppet show?. <i>Frontiers in Plant Science</i> , 2014, 5, 502.	3.6	0
28	An Efficient Method for Quantitative, Single-cell Analysis of Chromatin Modification and Nuclear Architecture in Whole-mount Ovules in <i>Arabidopsis</i> . <i>Journal of Visualized Experiments</i> , 2014, , e51530.	0.3	11
29	Chromatin reprogramming during the somatic-to-reproductive cell fate transition in plants. <i>Development (Cambridge)</i> , 2013, 140, 4008-4019.	2.5	146
30	Parental contributions to the transcriptome of early plant embryos. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 72-74.	3.3	16
31	Efficient and Rapid Isolation of Early-stage Embryos from <i>Arabidopsis thaliana</i> Seeds. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	13
32	Genomic Imprinting in the Arabidopsis Embryo Is Partly Regulated by PRC2. <i>PLoS Genetics</i> , 2013, 9, e1003862.	3.5	63
33	The Armadillo Repeat Gene <i>ZAK IXIK</i> Promotes <i>Arabidopsis</i> Early Embryo and Endosperm Development through a Distinctive Gametophytic Maternal Effect. <i>Plant Cell</i> , 2012, 24, 4026-4043.	6.6	19
34	Maternal Epigenetic Pathways Control Parental Contributions to Arabidopsis Early Embryogenesis. <i>Cell</i> , 2011, 145, 707-719.	28.9	193
35	Epigenetic regulation and reprogramming during gamete formation in plants. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 124-133.	3.3	58
36	Regulation and Flexibility of Genomic Imprinting during Seed Development. <i>Plant Cell</i> , 2011, 23, 16-26.	6.6	124

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37	Transcriptome Analysis of the Arabidopsis Megaspore Mother Cell Uncovers the Importance of RNA Helicases for Plant Germline Development. <i>PLoS Biology</i> , 2011, 9, e1001155.	5.6	119
38	Embryo and Endosperm Inherit Distinct Chromatin and Transcriptional States from the Female Gametes in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 307-320.	6.6	160
39	The Maternal to Zygotic Transition in Animals and Plants. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008, 73, 89-100.	1.1	104
40	Genomic Origin and Organization of the Allopolyploid <i>Primula egaliksensis</i> Investigated by in situ Hybridization. <i>Annals of Botany</i> , 2008, 101, 919-927.	2.9	28
41	The Triploid Endosperm Genome of <i>Arabidopsis</i> Adopts a Peculiar, Parental-Dosage-Dependent Chromatin Organization. <i>Plant Cell</i> , 2007, 19, 1782-1794.	6.6	85
42	Chromatin modification and remodeling during early seed development. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 473-479.	3.3	50
43	Positive darwinian selection at the imprinted MEDEA locus in plants. <i>Nature</i> , 2007, 448, 349-352.	27.8	144
44	Dynamic regulatory interactions of Polycomb group genes: MEDEA autoregulation is required for imprinted gene expression in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2006, 20, 1081-1086.	5.9	133
45	New pOp/LhG4 vectors for stringent glucocorticoid-dependent transgene expression in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2005, 41, 899-918.	5.7	195
46	Cellular efflux of auxin catalyzed by the <i>Arabidopsis</i> MDR/PGP transporter AtPGP1. <i>Plant Journal</i> , 2005, 44, 179-194.	5.7	496
47	Intrachromosomal excision of a hybrid Ds element induces large genomic deletions in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2969-2974.	7.1	35
48	Predictable activation of tissue-specific expression from a single gene locus using the pOp/LhG4 transactivation system in <i>Arabidopsis</i> . <i>Plant Biotechnology Journal</i> , 2004, 3, 91-101.	8.3	25
49	Nuclear fusions contribute to polyploidization of the gigantic nuclei in the chalazal endosperm of <i>Arabidopsis</i> . <i>Planta</i> , 2004, 220, 38-46.	3.2	24
50	Transposons and Tandem Repeats Are Not Involved in the Control of Genomic Imprinting at the MEDEA Locus in <i>Arabidopsis</i> . <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2004, 69, 465-476.	1.1	31
51	6 Genomic imprinting during seed development. <i>Advances in Genetics</i> , 2002, 46, 165-214.	1.8	71
52	Evolutionary origins of the endosperm in flowering plants. <i>Genome Biology</i> , 2002, 3, reviews1026.1.	9.6	105
53	Paternally inherited transgenes are down-regulated but retain low activity during early embryogenesis in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2001, 509, 11-16.	2.8	59
54	Transactivation of BARNASE under the AtLTP1 promoter affects the basal pole of the embryo and shoot development of the adult plant in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2001, 28, 503-515.	5.7	35