

Pedro L Rodriguez

List of Publications by Year in descending order

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111
papers

18,068
citations

20817

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102
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116
all docs

116
docs citations

116
times ranked

12848
citing authors

#	ARTICLE	IF	CITATIONS
1	Abscisic Acid: Emergence of a Core Signaling Network. <i>Annual Review of Plant Biology</i> , 2010, 61, 651-679.	18.7	2,506
2	Abscisic Acid Inhibits Type 2C Protein Phosphatases via the PYR/PYL Family of START Proteins. <i>Science</i> , 2009, 324, 1068-1071.	12.6	2,385
3	In vitro reconstitution of an abscisic acid signalling pathway. <i>Nature</i> , 2009, 462, 660-664.	27.8	1,113
4	Protein Phosphatases 2C Regulate the Activation of the Snf1-Related Kinase OST1 by Abscisic Acid in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 3170-3184.	6.6	500
5	<i>Arabidopsis</i> PYR/PYL/RCAR Receptors Play a Major Role in Quantitative Regulation of Stomatal Aperture and Transcriptional Response to Abscisic Acid. <i>Plant Cell</i> , 2012, 24, 2483-2496.	6.6	493
6	<i>Pseudomonas syringae</i> pv. tomato hijacks the <i>Arabidopsis</i> abscisic acid signalling pathway to cause disease. <i>EMBO Journal</i> , 2007, 26, 1434-1443.	7.8	484
7	Modulation of drought resistance by the abscisic acid receptor PYL5 through inhibition of clade A PP2Cs. <i>Plant Journal</i> , 2009, 60, 575-588.	5.7	476
8	The abscisic acid receptor PYR1 in complex with abscisic acid. <i>Nature</i> , 2009, 462, 665-668.	27.8	457
9	The Short-Chain Alcohol Dehydrogenase ABA2 Catalyzes the Conversion of Xanthoxin to Abscisic Aldehyde[W]. <i>Plant Cell</i> , 2002, 14, 1833-1846.	6.6	435
10	Gain-of-function and loss-of-function phenotypes of the protein phosphatase 2C HAB1 reveal its role as a negative regulator of abscisic acid signalling. <i>Plant Journal</i> , 2004, 37, 354-369.	5.7	368
11	Plant roots use a patterning mechanism to position lateral root branches toward available water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9319-9324.	7.1	317
12	Diffusional conductances to CO ₂ as a target for increasing photosynthesis and photosynthetic water-use efficiency. <i>Photosynthesis Research</i> , 2013, 117, 45-59.	2.9	305
13	ABI1 and PP2CA Phosphatases Are Negative Regulators of Snf1-Related Protein Kinase1 Signaling in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3871-3884.	6.6	266
14	Triple Loss of Function of Protein Phosphatases Type 2C Leads to Partial Constitutive Response to Endogenous Abscisic Acid. <i>Plant Physiology</i> , 2009, 150, 1345-1355.	4.8	252
15	PYRABACTIN RESISTANCE1-LIKE8 Plays an Important Role for the Regulation of Abscisic Acid Signaling in Root. <i>Plant Physiology</i> , 2013, 161, 931-941.	4.8	244
16	Enhancement of Abscisic Acid Sensitivity and Reduction of Water Consumption in <i>Arabidopsis</i> by Combined Inactivation of the Protein Phosphatases Type 2C ABI1 and HAB1. <i>Plant Physiology</i> , 2006, 141, 1389-1399.	4.8	235
17	Jasmonate signaling involves the abscisic acid receptor PYL4 to regulate metabolic reprogramming in <i>Arabidopsis</i> and tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5891-5896.	7.1	228
18	ABI2, a second protein phosphatase 2C involved in abscisic acid signal transduction in <i>Arabidopsis</i> . <i>FEBS Letters</i> , 1998, 421, 185-190.	2.8	220

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19	A mutational analysis of the ABA1 gene of <i>Arabidopsis thaliana</i> highlights the involvement of ABA in vegetative development. <i>Journal of Experimental Botany</i> , 2005, 56, 2071-2083.	4.8	208
20	Both abscisic acid (ABA)-dependent and ABA-independent pathways govern the induction of NCED3, AAO3 and ABA1 in response to salt stress. <i>Plant, Cell and Environment</i> , 2006, 29, 2000-2008.	5.7	203
21	The sensitivity of ABI2 to hydrogen peroxide links the abscisic acid-response regulator to redox signalling. <i>Planta</i> , 2002, 214, 775-782.	3.2	201
22	PYR/RCAR Receptors Contribute to Ozone-, Reduced Air Humidity-, Darkness-, and CO ₂ -Induced Stomatal Regulation. <i>Plant Physiology</i> , 2013, 162, 1652-1668.	4.8	190
23	Targeted Degradation of Abscisic Acid Receptors Is Mediated by the Ubiquitin Ligase Substrate Adaptor DDA1 in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 712-728.	6.6	186
24	The SWI2/SNF2 Chromatin Remodeling ATPase BRAHMA Represses Abscisic Acid Responses in the Absence of the Stress Stimulus in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 24, 4892-4906.	6.6	185
25	FERONIA interacts with ABI2-type phosphatases to facilitate signaling cross-talk between abscisic acid and RALF peptide in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5519-27.	7.1	185
26	Root hydrotropism is controlled via a cortex-specific growth mechanism. <i>Nature Plants</i> , 2017, 3, 17057.	9.3	183
27	Selective Inhibition of Clade A Phosphatases Type 2C by PYR/PYL/RCAR Abscisic Acid Receptors. <i>Plant Physiology</i> , 2012, 158, 970-980.	4.8	178
28	The single subunit RING-type E3 ubiquitin ligase RSL1 targets PYL4 and PYR1 ABA receptors in plasma membrane to modulate abscisic acid signaling. <i>Plant Journal</i> , 2014, 80, 1057-1071.	5.7	177
29	Protein phosphatase 2C (PP2C) function in higher plants. , 1998, 38, 919-927.		175
30	Tomato PYR/PYL/RCAR abscisic acid receptors show high expression in root, differential sensitivity to the abscisic acid agonist quinabactin, and the capability to enhance plant drought resistance. <i>Journal of Experimental Botany</i> , 2014, 65, 4451-4464.	4.8	173
31	HAB1-SWI3B Interaction Reveals a Link between Abscisic Acid Signaling and Putative SWI/SNF Chromatin-Remodeling Complexes in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 20, 2972-2988.	6.6	172
32	A thermodynamic switch modulates abscisic acid receptor sensitivity. <i>EMBO Journal</i> , 2011, 30, 4171-4184.	7.8	161
33	The PYL4 A194T Mutant Uncovers a Key Role of PYR1-LIKE4/PROTEIN PHOSPHATASE 2CA Interaction for Abscisic Acid Signaling and Plant Drought Resistance. <i>Plant Physiology</i> , 2013, 163, 441-455.	4.8	150
34	Stress-induced Protein Phosphatase 2C Is a Negative Regulator of a Mitogen-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 2003, 278, 18945-18952.	3.4	147
35	Inactivation of PYR/PYL/RCAR ABA receptors by tyrosine nitration may enable rapid inhibition of ABA signaling by nitric oxide in plants. <i>Science Signaling</i> , 2015, 8, ra89.	3.6	129
36	FYVE1/FREE1 Interacts with the PYL4 ABA Receptor and Mediates Its Delivery to the Vacuolar Degradation Pathway. <i>Plant Cell</i> , 2016, 28, 2291-2311.	6.6	129

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37	C2-Domain Abscisic Acid-Related Proteins Mediate the Interaction of PYR/PYL/RCAR Abscisic Acid Receptors with the Plasma Membrane and Regulate Abscisic Acid Sensitivity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4802-4820.	6.6	127
38	A dual function of SnRK2 kinases in the regulation of SnRK1 and plant growth. <i>Nature Plants</i> , 2020, 6, 1345-1353.	9.3	122
39	News on ABA transport, protein degradation, and ABFs/WRKYs in ABA signaling. <i>Current Opinion in Plant Biology</i> , 2011, 14, 547-553.	7.1	121
40	Poliovirus Protein 2C Contains Two Regions Involved in RNA Binding Activity. <i>Journal of Biological Chemistry</i> , 1995, 270, 10105-10112.	3.4	119
41	The Cys-Arg/N-End Rule Pathway Is a General Sensor of Abiotic Stress in Flowering Plants. <i>Current Biology</i> , 2017, 27, 3183-3190.e4.	3.9	118
42	The role of Arabidopsis ABA receptors from the PYR/PYL/RCAR family in stomatal acclimation and closure signal integration. <i>Nature Plants</i> , 2019, 5, 1002-1011.	9.3	115
43	Development of a citrus genome-wide EST collection and cDNA microarray as resources for genomic studies. <i>Plant Molecular Biology</i> , 2005, 57, 375-391.	3.9	104
44	Modulation of Abscisic Acid Signaling in Vivo by an Engineered Receptor-Insensitive Protein Phosphatase Type 2C Allele $\Delta\Delta$. <i>Plant Physiology</i> , 2011, 156, 106-116.	4.8	104
45	Structural insights into PYR/PYL/RCAR ABA receptors and PP2Cs. <i>Plant Science</i> , 2012, 182, 3-11.	3.6	102
46	Ubiquitin Ligases RGLG1 and RGLG5 Regulate Abscisic Acid Signaling by Controlling the Turnover of Phosphatase PP2CA. <i>Plant Cell</i> , 2016, 28, 2178-2196.	6.6	100
47	A Direct Link between Abscisic Acid Sensing and the Chromatin-Remodeling ATPase BRAHMA via Core ABA Signaling Pathway Components. <i>Molecular Plant</i> , 2016, 9, 136-147.	8.3	100
48	The Xerobranching Response Represses Lateral Root Formation When Roots Are Not in Contact with Water. <i>Current Biology</i> , 2018, 28, 3165-3173.e5.	3.9	94
49	The lithium tolerance of the Arabidopsis <i>cat2</i> mutant reveals a cross-talk between oxidative stress and ethylene. <i>Plant Journal</i> , 2007, 52, 1052-1065.	5.7	91
50	ESCRT-I Component VPS23A Affects ABA Signaling by Recognizing ABA Receptors for Endosomal Degradation. <i>Molecular Plant</i> , 2016, 9, 1570-1582.	8.3	87
51	Molecular cloning in Arabidopsis thaliana of a new protein phosphatase 2C (PP2C) with homology to ABI1 and ABI2. <i>Plant Molecular Biology</i> , 1998, 38, 879-883.	3.9	85
52	Negative Regulation of Abscisic Acid Signaling by the Fagus sylvatica FsPP2C1 Plays A Role in Seed Dormancy Regulation and Promotion of Seed Germination. <i>Plant Physiology</i> , 2003, 133, 135-144.	4.8	78
53	Low ABA concentration promotes root growth and hydrotropism through relief of ABA INSENSITIVE 1-mediated inhibition of plasma membrane H ⁺ -ATPase 2. <i>Science Advances</i> , 2021, 7, .	10.3	78
54	The Arabidopsis HAL2-like gene family includes a novel sodium-sensitive phosphatase. <i>Plant Journal</i> , 1999, 17, 373-383.	5.7	77

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55	Wounding-Induced Stomatal Closure Requires Jasmonate-Mediated Activation of GORK K ⁺ Channels by a Ca ²⁺ Sensor-Kinase CBL1-CIPK5 Complex. <i>Developmental Cell</i> , 2019, 48, 87-99.e6.	7.0	74
56	Two New Alleles of the abscisic aldehyde oxidase 3 Gene Reveal Its Role in Abscisic Acid Biosynthesis in Seeds. <i>Plant Physiology</i> , 2004, 135, 325-333.	4.8	72
57	Calcium-dependent oligomerization of CAR proteins at cell membrane modulates ABA signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E396-405.	7.1	72
58	A mechanism of growth inhibition by abscisic acid in germinating seeds of <i>Arabidopsis thaliana</i> based on inhibition of plasma membrane H ⁺ -ATPase and decreased cytosolic pH, K ⁺ , and anions. <i>Journal of Experimental Botany</i> , 2015, 66, 813-825.	4.8	71
59	Phospho-site mapping, genetic and in planta activation studies reveal key aspects of the different phosphorylation mechanisms involved in activation of SnRK2s. <i>Plant Journal</i> , 2010, 63, 778-790.	5.7	69
60	Pre-mRNA splicing repression triggers abiotic stress signaling in plants. <i>Plant Journal</i> , 2017, 89, 291-309.	5.7	68
61	The plant ESCRT component FREE1 shuttles to the nucleus to attenuate abscisic acid signalling. <i>Nature Plants</i> , 2019, 5, 512-524.	9.3	68
62	X-ray structure of yeast hal2p, a major target of lithium and sodium toxicity, and identification of framework interactions determining cation sensitivity. <i>Journal of Molecular Biology</i> , 2000, 295, 927-938.	4.2	66
63	The Short-Rooted Phenotype of the <i>brevis radix</i> Mutant Partly Reflects Root Abscisic Acid Hypersensitivity. <i>Plant Physiology</i> , 2009, 149, 1917-1928.	4.8	63
64	Gliotoxin: inhibitor of poliovirus RNA synthesis that blocks the viral RNA polymerase 3Dpol. <i>Journal of Virology</i> , 1992, 66, 1971-1976.	3.4	63
65	A Novel Mammalian Lithium-sensitive Enzyme with a Dual Enzymatic Activity, 3-Phosphoadenosine 5-Phosphate Phosphatase and Inositol-polyphosphate 1-Phosphatase. <i>Journal of Biological Chemistry</i> , 1999, 274, 16034-16039.	3.4	62
66	ABA inhibits myristoylation and induces shuttling of the RGLG1 E3 ligase to promote nuclear degradation of PP2CA. <i>Plant Journal</i> , 2019, 98, 813-825.	5.7	59
67	The MATH-BTB BPM3 and BPM5 subunits of Cullin3-RING E3 ubiquitin ligases target PP2CA and other clade A PP2Cs for degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15725-15734.	7.1	56
68	A combination of the F-box motif and kelch repeats defines a large <i>Arabidopsis</i> family of F-box proteins. <i>Plant Molecular Biology</i> , 2001, 46, 603-614.	3.9	52
69	Structure of Ligand-Bound Intermediates of Crop ABA Receptors Highlights PP2C as Necessary ABA Co-receptor. <i>Molecular Plant</i> , 2017, 10, 1250-1253.	8.3	49
70	A Role for 3AB Protein in Poliovirus Genome Replication. <i>Journal of Biological Chemistry</i> , 1995, 270, 14430-14438.	3.4	46
71	PYL8 mediates ABA perception in the root through non-cell-autonomous and ligand-stabilization-based mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11857-E11863.	7.1	46
72	A New Protein Phosphatase 2C (FsPP2C1) Induced by Abscisic Acid Is Specifically Expressed in Dormant Beechnut Seeds. <i>Plant Physiology</i> , 2001, 125, 1949-1956.	4.8	44

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73	Crystal structure of an enzyme displaying both inositol-polyphosphate-1-phosphatase and 3- β -phosphoadenosine-5-phosphate phosphatase activities: a novel target of lithium therapy 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2002, 315, 677-685.	4.2	40
74	Arabidopsis ALIX Regulates Stomatal Aperture and Turnover of Abscisic Acid Receptors. <i>Plant Cell</i> , 2019, 31, 2411-2429.	6.6	40
75	The Coenzyme A Biosynthetic Enzyme Phosphopantetheine Adenylyltransferase Plays a Crucial Role in Plant Growth, Salt/Osmotic Stress Resistance, and Seed Lipid Storage. <i>Plant Physiology</i> , 2008, 148, 546-556.	4.8	38
76	The <i>ABA1</i> gene and carotenoid biosynthesis are required for late skotomorphogenic growth in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2008, 31, 227-234.	5.7	37
77	Protein phosphatase type 2C PP2CA together with ABI1 inhibits SnRK2.4 activity and regulates plant responses to salinity. <i>Plant Signaling and Behavior</i> , 2016, 11, e1253647.	2.4	36
78	Depletion of abscisic acid levels in roots of flooded Carrizo citrange (<i>Poncirus trifoliata</i> L. Raf. \bar{A}) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 PYR/PYL/RCAR receptors. <i>Plant Molecular Biology</i> , 2017, 93, 623-640.	3.9	35
79	Plant Osmotic Stress Signaling: MAPKKs Meet SnRK2s. <i>Trends in Plant Science</i> , 2020, 25, 1179-1182.	8.8	35
80	The Role of ABA in Plant Immunity is Mediated through the PYR1 Receptor. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5852.	4.1	35
81	RBR-Type E3 Ligases and the Ubiquitin-Conjugating Enzyme UBC26 Regulate Abscisic Acid Receptor Levels and Signaling. <i>Plant Physiology</i> , 2020, 182, 1723-1742.	4.8	33
82	An Arabidopsis Mutant Impaired in Coenzyme A Biosynthesis Is Sugar Dependent for Seedling Establishment. <i>Plant Physiology</i> , 2006, 140, 830-843.	4.8	32
83	The <i>scp>IBO</scp></i> germination quantitative trait locus encodes a phosphatase 2<sc>C</sc>-related variant with a nonsynonymous amino acid change that interferes with abscisic acid signaling. <i>New Phytologist</i> , 2015, 205, 1076-1082.	7.3	32
84	Phosphatase ABI1 and okadaic acid-sensitive phosphoprotein phosphatases inhibit salt stress-activated SnRK2.4 kinase. <i>BMC Plant Biology</i> , 2016, 16, 136.	3.6	32
85	A novel target of lithium therapy. <i>FEBS Letters</i> , 2000, 467, 321-325.	2.8	30
86	HRS1 Acts as a Negative Regulator of Abscisic Acid Signaling to Promote Timely Germination of Arabidopsis Seeds. <i>PLoS ONE</i> , 2012, 7, e35764.	2.5	30
87	An Arabidopsis quiescin-sulphydryl oxidase regulates cation homeostasis at the root symplast-xylem interface. <i>EMBO Journal</i> , 2007, 26, 3203-3215.	7.8	29
88	PYR/PYL/RCAR ABA receptors. <i>Advances in Botanical Research</i> , 2019, , 51-82.	1.1	23
89	Abscisic Acid Catabolism Generates Phaseic Acid, a Molecule Able to Activate a Subset of ABA Receptors. <i>Molecular Plant</i> , 2016, 9, 1448-1450.	8.3	22
90	A forward genetic approach in Arabidopsis thaliana identifies a RING-type ubiquitin ligase as a novel determinant of seed longevity. <i>Plant Science</i> , 2014, 215-216, 110-116.	3.6	20

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91	Hydrotropism: Analysis of the Root Response to a Moisture Gradient. <i>Methods in Molecular Biology</i> , 2016, 1398, 3-9.	0.9	20
92	Tripartite hormonal regulation of plasma membrane H ⁺ -ATPase activity. <i>Trends in Plant Science</i> , 2022, 27, 588-600.	8.8	16
93	CtCdc55p and CtHal3p: Two putative regulatory proteins from <i>Candida tropicalis</i> with long acidic domains. , 1996, 12, 1321-1329.		14
94	Ubiquitylation of ABA Receptors and Protein Phosphatase 2C Coreceptors to Modulate ABA Signaling and Stress Response. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7103.	4.1	14
95	<i>Arabidopsis</i> Hypocotyl Adventitious Root Formation Is Suppressed by ABA Signaling. <i>Genes</i> , 2021, 12, 1141.	2.4	13
96	Unnatural agrochemical ligands for engineered abscisic acid receptors. <i>Trends in Plant Science</i> , 2015, 20, 330-332.	8.8	10
97	PYL8 ABA receptors of <i>Phoenix dactylifera</i> play a crucial role in response to abiotic stress and are stabilized by ABA. <i>Journal of Experimental Botany</i> , 2021, 72, 757-774.	4.8	10
98	Drug Discovery for Thirsty Crops. <i>Trends in Plant Science</i> , 2020, 25, 844-846.	8.8	9
99	The fungal sesquiterpenoid pyrenophoric acid B uses the plant ABA biosynthetic pathway to inhibit seed germination. <i>Journal of Experimental Botany</i> , 2019, 70, 5487-5494.	4.8	7
100	PYL1- and PYL8-like ABA Receptors of <i>Nicotiana benthamiana</i> Play a Key Role in ABA Response in Seed and Vegetative Tissue. <i>Cells</i> , 2022, 11, 795.	4.1	5
101	Dual regulation of SnRK2 signaling by Raf-like MAPKKs. <i>Molecular Plant</i> , 2022, , .	8.3	3
102	A Luciferase Reporter Assay to Identify Chemical Activators of ABA Signaling. <i>Methods in Molecular Biology</i> , 2021, 2213, 113-121.	0.9	2
103	Degradation of Abscisic Acid Receptors Through the Endosomal Pathway. <i>Methods in Molecular Biology</i> , 2020, 2177, 35-48.	0.9	2
104	Structure-Based Modulation of the Ligand Sensitivity of a Tomato Dimeric Abscisic Acid Receptor Through a Glu to Asp Mutation in the Latch Loop. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	2
105	Identification of ABA Receptor Using a Multiplexed Chemical Screening. <i>Methods in Molecular Biology</i> , 2021, 2213, 99-111.	0.9	1
106	The Xerobranching Response Represses Lateral Root Formation When Roots Are Not in Contact With Water. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
107	In Gel Kinase Assay. <i>Bio-protocol</i> , 2017, 7, e2170.	0.4	0
108	Microscopic Imaging of of. <i>Methods in Molecular Biology</i> , 2022, 2462, 59-69.	0.9	0

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109	Affinity Purification of Ubiquitinated Proteins Using p62-Agarose to Assess Ubiquitination of Clade A PP2Cs. <i>Methods in Molecular Biology</i> , 2022, 2462, 45-57.	0.9	0
110	Evaluation of the Anti-transpirant Activity of ABA Receptor Agonists in Monocot and Eudicot Plants. <i>Methods in Molecular Biology</i> , 2022, 2494, 229-238.	0.9	0
111	Hydrotropism: Analysis of the Root Response to a Moisture Gradient. <i>Methods in Molecular Biology</i> , 2022, 2494, 17-24.	0.9	0