

Eric Ruelland

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,192
citations

201674

27
h-index

168389

53
g-index

58
all docs

58
docs citations

58
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Chapter 2 Cold Signalling and Cold Acclimation in Plants. <i>Advances in Botanical Research</i> , 2009, 49, 35-150.	1.1	445
2	How plants sense temperature. <i>Environmental and Experimental Botany</i> , 2010, 69, 225-232.	4.2	400
3	Activation of Phospholipases C and D Is an Early Response to a Cold Exposure in Arabidopsis Suspension Cells. <i>Plant Physiology</i> , 2002, 130, 999-1007.	4.8	222
4	Regulation of chloroplast enzyme activities by thioredoxins: activation or relief from inhibition?. <i>Trends in Plant Science</i> , 1999, 4, 136-141.	8.8	156
5	The Cold-Induced Early Activation of Phospholipase C and D Pathways Determines the Response of Two Distinct Clusters of Genes in Arabidopsis Cell Suspensions. <i>Plant Physiology</i> , 2005, 139, 1217-1233.	4.8	152
6	Magical mystery tour: Salicylic acid signalling. <i>Environmental and Experimental Botany</i> , 2015, 114, 117-128.	4.2	125
7	Plant phosphoinositide-dependent phospholipases C: Variations around a canonical theme. <i>Biochimie</i> , 2014, 96, 144-157.	2.6	111
8	Phosphatidylinositol 4-Kinase Activation Is an Early Response to Salicylic Acid in Arabidopsis Suspension Cells. <i>Plant Physiology</i> , 2007, 144, 1347-1359.	4.8	110
9	The plant non-specific phospholipase C gene family. Novel competitors in lipid signalling. <i>Progress in Lipid Research</i> , 2013, 52, 62-79.	11.6	102
10	Desaturase mutants reveal that membrane rigidification acts as a cold perception mechanism upstream of the diacylglycerol kinase pathway in Arabidopsis cells. <i>FEBS Letters</i> , 2006, 580, 4218-4223.	2.8	98
11	The phosphatidic acid paradox: Too many actions for one molecule class? Lessons from plants. <i>Progress in Lipid Research</i> , 2018, 71, 43-53.	11.6	78
12	Signal transduction pathways involving phosphatidylinositol 4-phosphate and phosphatidylinositol 4,5-bisphosphate: Convergences and divergences among eukaryotic kingdoms. <i>Progress in Lipid Research</i> , 2013, 52, 1-14.	11.6	77
13	Arabidopsis Type-III Phosphatidylinositol 4-Kinases \hat{I}^21 and \hat{I}^22 are Upstream of the Phospholipase C Pathway Triggered by Cold Exposure. <i>Plant and Cell Physiology</i> , 2012, 53, 565-576.	3.1	74
14	Phosphoglycerolipids are master players in plant hormone signal transduction. <i>Plant Cell Reports</i> , 2013, 32, 839-851.	5.6	74
15	Phospholipase D Activation Is an Early Component of the Salicylic Acid Signaling Pathway in Arabidopsis Cell Suspensions. <i>Plant Physiology</i> , 2009, 150, 424-436.	4.8	67
16	Salicylic Acid Binding Proteins (SABPs): The Hidden Forefront of Salicylic Acid Signalling. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4377.	4.1	65
17	The single mutation Trp35Ala in the 35-40 redox site of <i>Chlamydomonas reinhardtii</i> thioredoxin h affects its biochemical activity and the pH dependence of C36-C39 1H-13C NMR. <i>FEBS Journal</i> , 1998, 255, 185-195.	0.2	59
18	The SCOOP12 peptide regulates defense response and root elongation in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 1349-1365.	4.8	59

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19	Oxidation~Reduction Properties of the Regulatory Disulfides of Sorghum Chloroplast Nicotinamide Adenine Dinucleotide Phosphate~Malate Dehydrogenase. <i>Biochemistry</i> , 2000, 39, 3344-3350.	2.5	56
20	Constitutive salicylic acid accumulation in <i>Arabidopsis</i> plants stunts rosette but not root growth. <i>New Phytologist</i> , 2014, 203, 805-816.	7.3	51
21	An Internal Cysteine Is Involved in the Thioredoxin-dependent Activation of Sorghum Leaf NADP-malate Dehydrogenase. <i>Journal of Biological Chemistry</i> , 1997, 272, 19851-19857.	3.4	45
22	The internal Cys-207 of sorghum leaf NADP-malate dehydrogenase can form mixed disulphides with thioredoxin. <i>FEBS Letters</i> , 1999, 444, 165-169.	2.8	41
23	The intrinsically disordered C-terminal region of <i>Arabidopsis thaliana</i> TCP8 transcription factor acts both as a transactivation and self-assembly domain. <i>Molecular BioSystems</i> , 2013, 9, 2282.	2.9	41
24	Acyl Chains of Phospholipase D Transphosphatidylation Products in <i>Arabidopsis</i> Cells: A Study Using Multiple Reaction Monitoring Mass Spectrometry. <i>PLoS ONE</i> , 2012, 7, e41985.	2.5	40
25	<i>Arabidopsis</i> non-specific phospholipase C1: characterization and its involvement in response to heat stress. <i>Frontiers in Plant Science</i> , 2015, 6, 928.	3.6	33
26	Light-dependent Activation of NADP-Malate Dehydrogenase: a Complex Process. <i>Functional Plant Biology</i> , 1997, 24, 529.	2.1	33
27	The <i>Arabidopsis</i> DREB2 genetic pathway is constitutively repressed by basal phosphoinositide-dependent phospholipase C coupled to diacylglycerol kinase. <i>Frontiers in Plant Science</i> , 2013, 4, 307.	3.6	31
28	Diacylglycerol kinases activate tobacco NADPH oxidase~dependent oxidative burst in response to cryptogein. <i>Plant, Cell and Environment</i> , 2017, 40, 585-598.	5.7	29
29	The Autoinhibition of Sorghum NADP Malate Dehydrogenase Is Mediated by a C-terminal Negative Charge. <i>Journal of Biological Chemistry</i> , 1998, 273, 33482-33488.	3.4	28
30	Molecular mechanisms of gravity perception and signal transduction in plants. <i>Protoplasma</i> , 2016, 253, 987-1004.	2.1	28
31	Cellular and subcellular localization of the lignin biosynthetic enzymes caffeic acid-O-methyltransferase, cinnamyl alcohol dehydrogenase and cinnamoyl-coenzyme A reductase in two monocots, sugarcane and maize. <i>Physiologia Plantarum</i> , 2003, 117, 93-99.	5.2	27
32	A ~trois: salicylic acid, growth inhibition, and immunity. <i>Trends in Plant Science</i> , 2022, 27, 460-471.	8.8	24
33	The hydrophobic segment of <i>Arabidopsis thaliana</i> cluster I diacylglycerol kinases is sufficient to target the proteins to cell membranes. <i>FEBS Letters</i> , 2008, 582, 1743-1748.	2.8	21
34	Glycerolipid analysis during desiccation and recovery of the resurrection plant <i>Xerophyta humilis</i> (Bak) Dur and Schinz. <i>Plant, Cell and Environment</i> , 2018, 41, 533-547.	5.7	21
35	The inhibition of basal phosphoinositide-dependent phospholipase C activity in <i>Arabidopsis</i> suspension cells by abscisic or salicylic acid acts as a signalling hub accounting for an important overlap in transcriptome remodelling induced by these hormones. <i>Environmental and Experimental Botany</i> , 2016, 123, 37-49.	4.2	18
36	Phosphatidic Acid in Plant Hormonal Signaling: From Target Proteins to Membrane Conformations. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3227.	4.1	17

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37	Salicylic acid modulates levels of phosphoinositide dependent-phospholipase C substrates and products to remodel the Arabidopsis suspension cell transcriptome. <i>Frontiers in Plant Science</i> , 2014, 5, 608.	3.6	16
38	Identification of salicylic acid-independent responses in an Arabidopsis phosphatidylinositol 4-kinase beta double mutant. <i>Annals of Botany</i> , 2020, 125, 775-784.	2.9	15
39	The Role of Active Site Arginines of Sorghum NADP-Malate Dehydrogenase in Thioredoxin-dependent Activation and Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 35792-35798.	3.4	13
40	An active-site cysteine of sorghum leaf NADP-malate dehydrogenase studied by site-directed mutagenesis. <i>FEBS Letters</i> , 1996, 382, 137-140.	2.8	12
41	The Arabidopsis <i>pi4kIII2</i> double mutant is salicylic acid-overaccumulating: a new example of salicylic acid influence on plant stature. <i>Plant Signaling and Behavior</i> , 2014, 9, e977210.	2.4	9
42	Deciphering the Binding of Salicylic Acid to Arabidopsis thaliana Chloroplastic GAPDH-A1. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4678.	4.1	9
43	Assessment of mitochondria as a compartment for phosphatidylinositol synthesis in <i>Solanum tuberosum</i> . <i>Plant Physiology and Biochemistry</i> , 2010, 48, 952-960.	5.8	7
44	Editorial: Lipid Signaling in Plant Development and Responses to Environmental Stresses. <i>Frontiers in Plant Science</i> , 2016, 7, 324.	3.6	7
45	Interplay between phosphoinositides and actin cytoskeleton in the regulation of immunity related responses in Arabidopsis thaliana seedlings. <i>Environmental and Experimental Botany</i> , 2019, 167, 103867.	4.2	7
46	Eat in or take away? How phosphatidylinositol 4-kinases feed the phospholipase C pathway with substrate. <i>Plant Signaling and Behavior</i> , 2012, 7, 1197-1199.	2.4	6
47	Multiple reaction monitoring mass spectrometry is a powerful tool to study glycerolipid composition in plants with different level of desaturase activity. <i>Plant Signaling and Behavior</i> , 2013, 8, e24118.	2.4	6
48	The dimer contact area of sorghum NADP-malate dehydrogenase: role of aspartate 101 in dimer stability and catalytic activity. <i>FEBS Letters</i> , 2000, 471, 240-244.	2.8	5
49	An Arabidopsis mutant deficient in phosphatidylinositol-4-phosphate kinases PI4K1 and PI4K2 displays altered auxin-related responses in roots. <i>Scientific Reports</i> , 2022, 12, 6947.	3.3	4
50	Controlled natural selection of soil microbiome through plant-soil feedback confers resistance to a foliar pathogen. <i>Plant and Soil</i> , 2023, 485, 181-195.	3.7	4
51	Importance of phosphoinositide-dependent signaling pathways in the control of gene expression in resting cells and in response to phytohormones. <i>Plant Signaling and Behavior</i> , 2015, 10, e1019983.	2.4	3
52	Molecular basis of plant adaptation to light. Example of two enzymes of the C4 photosynthesis cycle. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1998, 321, 577-583.	0.8	0
53	BODIPY Conjugate of Epibrassinolide as a Novel Biologically Active Probe for In Vivo Imaging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3599.	4.1	0
54	Use of Molecular Dynamics to Decipher the Binding of Salicylic Acid to Proteins. Example of Arabidopsis Thaliana Chloroplastic GAPDH-A1. <i>Biology and Life Sciences Forum</i> , 2020, 4, .	0.6	0