

Pipecolic Acid, an Endogenous Mediator of Defense Am Regulator of Inducible Plant Immunity

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Systemic signaling during plant defense. <i>Current Opinion in Plant Biology</i> , 2013, 16, 527-533.	3.5	199
2	Systemic Acquired Resistance (50 Years after Discovery): Moving from the Lab to the Field. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12473-12491.	2.4	162
3	<i>Arabidopsis thaliana</i> FLOWERING LOCUS D Is Required for Systemic Acquired Resistance. <i>Molecular Plant-Microbe Interactions</i> , 2013, 26, 1079-1088.	1.4	80
4	A compendium of cyclic sugar amino acids and their carbocyclic and heterocyclic nitrogen analogues. <i>Amino Acids</i> , 2013, 45, 613-689.	1.2	79
5	A Feedback Regulatory Loop between G3P and Lipid Transfer Proteins DIR1 and AZI1 Mediates Azelaic-Acid-Induced Systemic Immunity. <i>Cell Reports</i> , 2013, 3, 1266-1278.	2.9	171
6	Long-distance communication and signal amplification in systemic acquired resistance. <i>Frontiers in Plant Science</i> , 2013, 4, 30.	1.7	268
7	Recognition of bacterial plant pathogens: local, systemic and transgenerational immunity. <i>New Phytologist</i> , 2013, 199, 908-915.	3.5	107
8	New insights into the regulation of plant immunity by amino acid metabolic pathways. <i>Plant, Cell and Environment</i> , 2013, 36, 2085-2103.	2.8	296
9	Metabolic Profiling Framework for Discovery of Candidate Diagnostic Markers of Malaria. <i>Scientific Reports</i> , 2013, 3, 2769.	1.6	22
10	Acclimation responses of <i>Arabidopsis thaliana</i> to sustained phosphite treatments. <i>Journal of Experimental Botany</i> , 2013, 64, 1731-1743.	2.4	42
11	Reprogramming of plants during systemic acquired resistance. <i>Frontiers in Plant Science</i> , 2013, 4, 252.	1.7	100
12	Significance of the Natural Occurrence of L-Proline versus D-Pipecolic Acid: A Review. <i>Chirality</i> , 2013, 25, 823-831.	1.3	37
13	Pipecolic acid enhances resistance to bacterial infection and primes salicylic acid and nicotine accumulation in tobacco. <i>Plant Signaling and Behavior</i> , 2013, 8, e26366.	1.2	68
16	Lysine catabolism, amino acid transport, and systemic acquired resistance. <i>Plant Signaling and Behavior</i> , 2014, 9, e28933.	1.2	29
17	Exogenous application of histone demethylase inhibitor trans-2-phenylcyclopropylamine mimics FLD loss-of-function phenotype in terms of systemic acquired resistance in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2014, 9, e29658.	1.2	13
18	Priming of plant resistance by natural compounds. Hexanoic acid as a model. <i>Frontiers in Plant Science</i> , 2014, 5, 488.	1.7	200
19	<i>Arabidopsis</i> ENHANCED DISEASE SUSCEPTIBILITY1 promotes systemic acquired resistance via azelaic acid and its precursor 9-oxo nonanoic acid. <i>Journal of Experimental Botany</i> , 2014, 65, 5919-5931.	2.4	60
20	Preparing to fight back: generation and storage of priming compounds. <i>Frontiers in Plant Science</i> , 2014, 5, 295.	1.7	104

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21	Arabidopsis Triphosphate Tunnel Metalloenzyme2 Is a Negative Regulator of the Salicylic Acid-Mediated Feedback Amplification Loop for Defense Responses. <i>Plant Physiology</i> , 2014, 166, 1009-1021.	2.3	21
22	<i>N</i> -Acyl-Homoserine Lactone Primes Plants for Cell Wall Reinforcement and Induces Resistance to Bacterial Pathogens via the Salicylic Acid/Oxylipin Pathway. <i>Plant Cell</i> , 2014, 26, 2708-2723.	3.1	166
23	Cotton cytochrome P450 CYP82D regulates systemic cell death by modulating the octadecanoid pathway. <i>Nature Communications</i> , 2014, 5, 5372.	5.8	128
24	Altered growth and improved resistance of <i>Arabidopsis</i> against <i>Pseudomonas syringae</i> by overexpression of the basic amino acid transporter <i>AtCAT1</i> . <i>Plant, Cell and Environment</i> , 2014, 37, 1404-1414.	2.8	49
25	Knockdown of <i>LjALD1</i> , AGD2-like defense response protein 1, influences plant growth and nodulation in <i>Lotus japonicus</i> . <i>Journal of Integrative Plant Biology</i> , 2014, 56, 1034-1041.	4.1	6
26	Molecular Reprogramming of <i>Arabidopsis</i> in Response to Perturbation of Jasmonate Signaling. <i>Journal of Proteome Research</i> , 2014, 13, 5751-5766.	1.8	29
27	Insect eggs induce a systemic acquired resistance in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2014, 80, 1085-1094.	2.8	73
28	Contrasting Roles of the Apoplastic Aspartyl Protease APOPLASTIC, <i>ENHANCED DISEASE SUSCEPTIBILITY1</i> -DEPENDENT1 and LEGUME LECTIN-LIKE PROTEIN1 in <i>Arabidopsis</i> Systemic Acquired Resistance. <i>Plant Physiology</i> , 2014, 165, 791-809.	2.3	151
29	Polycomb and Trithorax group protein-mediated control of stress responses in plants. <i>Biological Chemistry</i> , 2014, 395, 1291-1300.	1.2	43
30	Human pyrroline-5-carboxylate reductase (PYCR1) acts on ¹ piperidine-6-carboxylate generating ¹ pipecolic acid. <i>Journal of Inherited Metabolic Disease</i> , 2014, 37, 327-332.	1.7	25
31	Targeting novel chemical and constitutive primed metabolites against <i>Plectosphaerella cucumerina</i> . <i>Plant Journal</i> , 2014, 78, 227-240.	2.8	56
32	<i>Arabidopsis</i> FLOWERING LOCUS D influences systemic-acquired-resistance-induced expression and histone modifications of WRKY genes. <i>Journal of Biosciences</i> , 2014, 39, 119-126.	0.5	71
33	Context of action of Proline Dehydrogenase (ProDH) in the Hypersensitive Response of <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2014, 14, 21.	1.6	61
34	Signaling by small metabolites in systemic acquired resistance. <i>Plant Journal</i> , 2014, 79, 645-658.	2.8	126
35	Chemical inducers of systemic immunity in plants. <i>Journal of Experimental Botany</i> , 2014, 65, 1849-1855.	2.4	54
36	The <i>Arabidopsis</i> PEPR pathway couples local and systemic plant immunity. <i>EMBO Journal</i> , 2014, 33, 62-75.	3.5	128
37	Plant perception of ¹² -aminobutyric acid is mediated by an aspartyl-tRNA synthetase. <i>Nature Chemical Biology</i> , 2014, 10, 450-456.	3.9	128
38	Molecular and physiological stages of priming: how plants prepare for environmental challenges. <i>Plant Cell Reports</i> , 2014, 33, 1935-1949.	2.8	61

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39	Bacteria-Triggered Systemic Immunity in Barley Is Associated with WRKY and ETHYLENE RESPONSIVE FACTORS But Not with Salicylic Acid. <i>Plant Physiology</i> , 2014, 166, 2133-2151.	2.3	76
40	Stitching together the Multiple Dimensions of Autophagy Using Metabolomics and Transcriptomics Reveals Impacts on Metabolism, Development, and Plant Responses to the Environment in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 1857-1877.	3.1	134
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45	Salicylic acid signaling inhibits apoplastic reactive oxygen species signaling. <i>BMC Plant Biology</i> , 2014, 14, 155.	1.6	70
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48	Î ² -Aminobutyric Acid (BABA)-Induced Resistance in <i>Arabidopsis thaliana</i> : Link with Iron Homeostasis. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 1226-1240.	1.4	38
49	Mitochondrial 2-hydroxyglutarate metabolism. <i>Mitochondrion</i> , 2014, 19, 275-281.	1.6	38
50	Multitasking antimicrobial peptides in plant development and host defense against biotic/abiotic stress. <i>Plant Science</i> , 2014, 228, 135-149.	1.7	95
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59	Shifts in metabolomic profiles of the parasitoid <i>Nasonia vitripennis</i> associated with elevated cold tolerance induced by the parasitoid's diapause, host diapause and host diet augmented with proline. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 63, 34-46.	1.2	48
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77	2-Hydroxy Acids in Plant Metabolism. The Arabidopsis Book, 2015, 13, e0182.	0.5	69
78	The metabolomics of oxidative stress. Phytochemistry, 2015, 112, 33-53.	1.4	199
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114	Nitric Oxide-Mediated Chemical Signaling during Systemic Acquired Resistance. <i>Advances in Botanical Research</i> , 2016, 77, 245-261.	0.5	5
115	Beneficial effects of bacteria-plant communication based on quorum sensing molecules of the N -acyl homoserine lactone group. <i>Plant Molecular Biology</i> , 2016, 90, 605-612.	2.0	140
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117	Beta-aminobutyric acid priming of plant defense: the role of ABA and other hormones. <i>Plant Molecular Biology</i> , 2016, 91, 703-711.	2.0	68
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131	<i>Botrytis cinerea</i> B05.10 promotes disease development in <i>Arabidopsis</i> by suppressing WRKY33-mediated host immunity. <i>Plant, Cell and Environment</i> , 2017, 40, 2189-2206.	2.8	60

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132	Preference of <i>Arabidopsis thaliana</i> GH3.5 acyl amido synthetase for growth versus defense hormone acyl substrates is dictated by concentration of amino acid substrate aspartate. <i>Phytochemistry</i> , 2017, 143, 19-28.	1.4	19
133	Climate Change, CO ₂ , and Defense: The Metabolic, Redox, and Signaling Perspectives. <i>Trends in Plant Science</i> , 2017, 22, 857-870.	4.3	74
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135	Functional Genomic Approaches in Plant Research. , 2017, , 215-239.		4
136	Identification and comparative analysis of <i>Brassica juncea</i> pathogenesis-related genes in response to hormonal, biotic and abiotic stresses. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	1.0	65
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138	The priming molecule γ -aminobutyric acid is naturally present in plants and is induced by stress. <i>New Phytologist</i> , 2017, 213, 552-559.	3.5	124
140	Similar, but different: structurally related azelaic acid and hexanoic acid trigger differential metabolomic and transcriptomic responses in tobacco cells. <i>BMC Plant Biology</i> , 2017, 17, 227.	1.6	25
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142	A critical role for <i>Arabidopsis</i> <i>MILDEW RESISTANCE LOCUS O2</i> in systemic acquired resistance. <i>Plant Journal</i> , 2018, 94, 1064-1082.	2.8	28
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144	Explorations of Plant's Chemodiversity: Role of Nitrogen-Containing Secondary Metabolites in Plant Defense. , 2018, , 309-332.		8
145	MiRNA160 is associated with local defense and systemic acquired resistance against <i>Phytophthora infestans</i> infection in potato. <i>Journal of Experimental Botany</i> , 2018, 69, 2023-2036.	2.4	67
146	Priming plant resistance by activation of redox-sensitive genes. <i>Free Radical Biology and Medicine</i> , 2018, 122, 171-180.	1.3	85
147	Zoophytophagous mirids provide pest control by inducing direct defences, antixenosis and attraction to parasitoids in sweet pepper plants. <i>Pest Management Science</i> , 2018, 74, 1286-1296.	1.7	48
148	Primed primary metabolism in systemic leaves: a functional systems analysis. <i>Scientific Reports</i> , 2018, 8, 216.	1.6	64
149	STOREKEEPER RELATED1/G-Element Binding Protein (STKR1) Interacts with Protein Kinase SnRK1. <i>Plant Physiology</i> , 2018, 176, 1773-1792.	2.3	31
150	Pathogenesis-related proteins and peptides as promising tools for engineering plants with multiple stress tolerance. <i>Microbiological Research</i> , 2018, 212-213, 29-37.	2.5	433

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151	Insights into Pipecolic Acid Biosynthesis in <i>Huperzia serrata</i> . <i>Organic Letters</i> , 2018, 20, 2195-2198.	2.4	37
152	Phytochemical variation in treetops: causes and consequences for tree-insect-herbivore interactions. <i>Oecologia</i> , 2018, 187, 377-388.	0.9	44
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