

Enhanced formation of aerenchyma and induction of a large number of adventitious roots of *Zea nicaraguensis* contribute to its survival as compared with maize (*Zea mays* ssp. *mays*) under waterlogging

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Waterproofing Crops: Effective Flooding Survival Strategies. <i>Plant Physiology</i> , 2012, 160, 1698-1709.	2.3	358
2	Screening of candidate genes associated with constitutive aerenchyma formation in adventitious roots of the teosinte <i>Zea nicaraguensis</i> . <i>Plant Root</i> , 2012, 6, 19-27.	0.3	7
3	Relationship between constitutive root aerenchyma formation and flooding tolerance in <i>Zea nicaraguensis</i> . <i>Plant and Soil</i> , 2013, 370, 447-460.	1.8	48
4	Identification of Major QTL for Waterlogging Tolerance Using Genome-Wide Association and Linkage Mapping of Maize Seedlings. <i>Plant Molecular Biology Reporter</i> , 2013, 31, 594-606.	1.0	43
5	Root responses to flooding. <i>Current Opinion in Plant Biology</i> , 2013, 16, 282-286.	3.5	236
6	Process of aerenchyma formation and reactive oxygen species induced by waterlogging in wheat seminal roots. <i>Planta</i> , 2013, 238, 969-982.	1.6	69
7	Characterization and expression analysis of dirigent family genes related to stresses in Brassica. <i>Plant Physiology and Biochemistry</i> , 2013, 67, 144-153.	2.8	56
8	Aerenchyma formation in crop species: A review. <i>Field Crops Research</i> , 2013, 152, 8-16.	2.3	200
9	Morpho-anatomical adaptations to waterlogging by germplasm accessions in a tropical forage grass. <i>AoB PLANTS</i> , 2013, 5, .	1.2	30
10	Soil conditions and cereal root system architecture: review and considerations for linking Darwin and Weaver. <i>Journal of Experimental Botany</i> , 2013, 64, 1193-1208.	2.4	207
11	Does suberin accumulation in plant roots contribute to waterlogging tolerance?. <i>Frontiers in Plant Science</i> , 2013, 4, 178.	1.7	54
12	Mesophytic Root Responses to O ₂ . <i>Journal of Natural Resources and Life Sciences Education</i> , 2013, 42, 28-32.	0.8	0
13	Effects of organic acids on the formation of the barrier to radial oxygen loss in roots of <i>Hordeum marinum</i> . <i>Functional Plant Biology</i> , 2014, 41, 187.	1.1	24
14	Hypocotyl adventitious root organogenesis differs from lateral root development. <i>Frontiers in Plant Science</i> , 2014, 5, 495.	1.7	122
15	Phenomic networks reveal largely independent root and shoot adjustment in waterlogged plants of <i>Oryza japonicus</i> . <i>Plant, Cell and Environment</i> , 2014, 37, 2278-2293.	2.8	26
16	Ethylene and reactive oxygen species are involved in root aerenchyma formation and adaptation of wheat seedlings to oxygen-deficient conditions. <i>Journal of Experimental Botany</i> , 2014, 65, 261-273.	2.4	180
17	Enhancement of porosity and aerenchyma formation in nitrogen-deficient rice roots. <i>Plant Science</i> , 2014, 215-216, 76-83.	1.7	35
18	Adaptive plasticity of <i>Laguncularia racemosa</i> in response to different environmental conditions: integrating chemical and biological data by chemometrics. <i>Ecotoxicology</i> , 2014, 23, 335-348.	1.1	24

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19	Oxygen enrichment with magnesium peroxide for minimizing hypoxic stress of flooded corn. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 733-740.	1.1	11
20	Microarray analysis of laser-microdissected tissues indicates the biosynthesis of suberin in the outer part of roots during formation of a barrier to radial oxygen loss in rice (<i>Oryza sativa</i>). <i>Journal of Experimental Botany</i> , 2014, 65, 4795-4806.	2.4	83
21	Plant tolerance of flooding stress – recent advances. <i>Plant, Cell and Environment</i> , 2014, 37, 2211-2215.	2.8	90
22	Morphoanatomical traits of root and nonenzymatic antioxidant system of leaf tissue contribute to waterlogging tolerance in <i>Brachiaria</i> grasses. <i>Grassland Science</i> , 2015, 61, 243-252.	0.6	13
23	Physiological responses of <i>Medicago truncatula</i> growth under prolonged hypoxia stress. <i>African Journal of Agricultural Research</i> Vol Pp, 2015, 10, 3073-3079.	0.2	1
24	Genetic and Molecular Characterization of Submergence Response Identifies Subtol6 as a Major Submergence Tolerance Locus in Maize. <i>PLoS ONE</i> , 2015, 10, e0120385.	1.1	66
25	Gas Transport and Exchange through Wetland Plant Aerenchyma. <i>Soil Science Society of America Book Series</i> , 2015, , 177-196.	0.3	2
26	Mechanisms of morphological adaptation of roots to waterlogging in gramineous plants. <i>Root Research</i> , 2015, 24, 23-35.	0.1	1
27	Leaf shape remodeling: programmed cell death in fistular leaves of <i>Allium fistulosum</i> . <i>Physiologia Plantarum</i> , 2015, 153, 419-431.	2.6	14
28	Physiological and Molecular Mechanisms of Flooding Tolerance in Plants. , 2015, , 227-242.		6
29	Differences in root aeration, iron plaque formation and waterlogging tolerance in six mangroves along a continuous tidal gradient. <i>Ecotoxicology</i> , 2015, 24, 1659-1667.	1.1	33
30	Plant Breeding for Flood Tolerance: Advances and Limitations. , 2015, , 43-72.		2
31	Flood adaptive traits and processes: an overview. <i>New Phytologist</i> , 2015, 206, 57-73.	3.5	539
32	Genetic mechanisms of abiotic stress tolerance that translate to crop yield stability. <i>Nature Reviews Genetics</i> , 2015, 16, 237-251.	7.7	796
33	Radial oxygen loss and physical barriers in relation to root tissue age in species with different types of aerenchyma. <i>Functional Plant Biology</i> , 2015, 42, 9.	1.1	32
34	Root and Shoot Responses of Summer Maize to Waterlogging at Different Stages. <i>Agronomy Journal</i> , 2016, 108, 1060-1069.	0.9	45
35	Mechanisms of waterlogging tolerance in wheat – a review of root and shoot physiology. <i>Plant, Cell and Environment</i> , 2016, 39, 1068-1086.	2.8	229
36	Ethylene-dependent aerenchyma formation in adventitious roots is regulated differently in rice and maize. <i>Plant, Cell and Environment</i> , 2016, 39, 2145-2157.	2.8	65

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37	De novo assembly of <i>Zea nicaraguensis</i> root transcriptome identified 5 261 full-length transcripts. <i>Journal of Integrative Agriculture</i> , 2016, 15, 1207-1217.	1.7	1
39	Plant responses to flooding stress. <i>Current Opinion in Plant Biology</i> , 2016, 33, 64-71.	3.5	254
40	Phenological variations, yield differences and free proline accumulation in rice under alternate inundation and suspension of irrigation in Central Thailand. <i>Paddy and Water Environment</i> , 2016, 14, 387-401.	1.0	1
41	Effects of spraying exogenous hormone 6-benzyladenine (6-BA) after waterlogging on grain yield and growth of summer maize. <i>Field Crops Research</i> , 2016, 188, 96-104.	2.3	52
42	Root xylem CO ₂ flux: an important but unaccounted-for component of root respiration. <i>Trees - Structure and Function</i> , 2016, 30, 343-352.	0.9	18
43	Structural features of <i>Phalaris arundinacea</i> in the Jiangnan Floodplain of the Yangtze River, China. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 229, 100-106.	0.6	19
44	Evaluation of root porosity and radial oxygen loss of disomic addition lines of <i>Hordeum marinum</i> in wheat. <i>Functional Plant Biology</i> , 2017, 44, 400.	1.1	9
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46	Mapping water, oxygen, and pH dynamics in the rhizosphere of young maize roots. <i>Journal of Plant Nutrition and Soil Science</i> , 2017, 180, 336-346.	1.1	26
47	Anatomy and ultrastructure adaptations to soil flooding of two full-sib poplar clones differing in flood-tolerance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2017, 233, 90-98.	0.6	22
48	Anatomical and biochemical characterisation of a barrier to radial O ₂ loss in adventitious roots of two contrasting <i>Hordeum marinum</i> accessions. <i>Functional Plant Biology</i> , 2017, 44, 845.	1.1	28
49	Nitric oxide is essential for the development of aerenchyma in wheat roots under hypoxic stress. <i>Plant, Cell and Environment</i> , 2017, 40, 3002-3017.	2.8	59
50	RNAseq revealed the important gene pathways controlling adaptive mechanisms under waterlogged stress in maize. <i>Scientific Reports</i> , 2017, 7, 10950.	1.6	49
51	Root Bending Is Antagonistically Affected by Hypoxia and ERF-Mediated Transcription via Auxin Signaling. <i>Plant Physiology</i> , 2017, 175, 412-423.	2.3	87
52	Cell wall changes during the formation of aerenchyma in sugarcane roots. <i>Annals of Botany</i> , 2017, 120, 693-708.	1.4	31
53	Acclimation of <i>Salix triandroides</i> cuttings to incomplete submergence is reduced by low light. <i>Aquatic Ecology</i> , 2017, 51, 321-330.	0.7	6
54	A major locus involved in the formation of the radial oxygen loss barrier in adventitious roots of teosinte <i>Zea nicaraguensis</i> is located on the short arm of chromosome 3. <i>Plant, Cell and Environment</i> , 2017, 40, 304-316.	2.8	58
55	Aerenchyma formation in the initial development of maize roots under waterlogging. <i>Theoretical and Experimental Plant Physiology</i> , 2017, 29, 165-175.	1.1	8

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57	Rice HRZ ubiquitin ligases are crucial for the response to excess iron. <i>Physiologia Plantarum</i> , 2018, 163, 282-296.	2.6	35
58	Effects of flooding stress on the photosynthetic apparatus of leaves of two <i>Physocarpus</i> cultivars. <i>Journal of Forestry Research</i> , 2018, 29, 1049-1059.	1.7	30
59	Waterlogging affects plant morphology and the expression of key genes in <i>tef</i> (<i>Eragrostis tef</i>). <i>Plant Direct</i> , 2018, 2, e00056.	0.8	24
60	Anatomical and histochemical traits of roots and stems of <i>Artemisia lavandulaefolia</i> and <i>A. selengensis</i> (Asteraceae) in the Jiangnan Floodplain, China. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2018, 239, 87-97.	0.6	22
61	Regulation of Root Traits for Internal Aeration and Tolerance to Soil Waterlogging-Flooding Stress. <i>Plant Physiology</i> , 2018, 176, 1118-1130.	2.3	218
63	Plant water transport and aquaporins in oxygen-deprived environments. <i>Journal of Plant Physiology</i> , 2018, 227, 20-30.	1.6	48
64	Wild Relatives of Maize, Rice, Cotton, and Soybean: Treasure Troves for Tolerance to Biotic and Abiotic Stresses. <i>Frontiers in Plant Science</i> , 2018, 9, 886.	1.7	211
65	Over-expression of the poplar expansin gene <i>PtoEXPA12</i> in tobacco plants enhanced cadmium accumulation. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 676-682.	3.6	28
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67	Histological Observation of Primary and Secondary Aerenchyma Formation in Adventitious Roots of <i>Syzygium kunstleri</i> (King) Bahadur and R.C.Gaur Grown in Hypoxic Medium. <i>Forests</i> , 2019, 10, 137.	0.9	9
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69	Small RNA sequencing identifies cucumber miRNA roles in waterlogging-triggered adventitious root primordia formation. <i>Molecular Biology Reports</i> , 2019, 46, 6381-6389.	1.0	18
70	$\hat{1}^3$ -Aminobutyric Acid Promotes Chloroplast Ultrastructure, Antioxidant Capacity, and Growth of Waterlogged Maize Seedlings. <i>Scientific Reports</i> , 2019, 9, 484.	1.6	59
71	Morphological Changes and Expressions of <i>AOX1A</i> , <i>CYP81D8</i> , and Putative PFP Genes in a Large Set of Commercial Maize Hybrids Under Extreme Waterlogging. <i>Frontiers in Plant Science</i> , 2019, 10, 62.	1.7	25
72	The control of endopolygalacturonase expression by the sugarcane RAV transcription factor during aerenchyma formation. <i>Journal of Experimental Botany</i> , 2019, 70, 497-506.	2.4	24
73	Nitrate nutrition influences multiple factors in order to increase energy efficiency under hypoxia in <i>Arabidopsis</i> . <i>Annals of Botany</i> , 2019, 123, 691-705.	1.4	30
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78	A group VII ethylene response factor gene, <i>ZmEREB180</i> , coordinates waterlogging tolerance in maize seedlings. <i>Plant Biotechnology Journal</i> , 2019, 17, 2286-2298.	4.1	91
79	Anatomical structures of alligator weed (<i>Alternanthera philoxeroides</i>) suggest it is well adapted to the aquatic-terrestrial transition zone. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019, 253, 27-34.	0.6	19
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81	Root Cortex Provides a Venue for Gas-Space Formation and Is Essential for Plant Adaptation to Waterlogging. <i>Frontiers in Plant Science</i> , 2019, 10, 259.	1.7	56
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84	Tolerance level of several hybrid maize genotypes to waterlogging stress. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 484, 012002.	0.2	0
85	Hypoxia-Responsive Class III Peroxidases in Maize Roots: Soluble and Membrane-Bound Isoenzymes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8872.	1.8	8
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90	Dynamics of radial oxygen loss in mangroves subjected to waterlogging. <i>Ecotoxicology</i> , 2020, 29, 684-690.	1.1	8
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92	Comparisons with wheat reveal root anatomical and histochemical constraints of rice under water-deficit stress. <i>Plant and Soil</i> , 2020, 452, 547-568.	1.8	37

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94	Lateral roots, in addition to adventitious roots, form a barrier to radial oxygen loss in <i>Zea nicaraguensis</i> and a chromosome segment introgression line in maize. <i>New Phytologist</i> , 2021, 229, 94-105.	3.5	35
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96	Resistance to Abiotic Stress: Theory and Applications in Maize Breeding. , 2021, , 105-151.		1
97	Root length is proxy for high-throughput screening of waterlogging tolerance in <i>Urochloa</i> spp. grasses. <i>Functional Plant Biology</i> , 2021, 48, 411.	1.1	8
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101	Elucidating the morpho-physiological adaptations and molecular responses under long-term waterlogging stress in maize through gene expression analysis. <i>Plant Science</i> , 2021, 304, 110823.	1.7	30
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109	The versatile GABA in plants. <i>Plant Signaling and Behavior</i> , 2021, 16, 1862565.	1.2	132
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113	Biogenesis of Adventitious Roots and Their Involvement in the Adaptation to Oxygen Limitations. <i>Plant Cell Monographs</i> , 2014, , 299-312.	0.4	5
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116	Abiotic Stress in Plants. , 2019, , 1-46.		5
117	Waterlogging tolerance and capacity for oxygen transport in <i>Brachypodium distachyon</i> (Bd21). <i>Plant Root</i> , 2014, 8, 5-12.	0.3	8
118	A barrier to radial oxygen loss enables wetland plants to grow under waterlogged conditions. <i>Root Research</i> , 2016, 25, 47-62.	0.1	3
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128	Investigation on genotype-by-environment interaction and stable maize (<i>Zea mays</i> L.) hybrids across soil moisture conditions. <i>Vegetos</i> , 2021, 34, 951-958.	0.8	0
129	Rewilding staple crops for the lost halophytism: Toward sustainability and profitability of agricultural production systems. <i>Molecular Plant</i> , 2022, 15, 45-64.	3.9	23
130	Photosynthetic and Morphological Responses of Sacha Inchi (<i>Plukenetia volubilis</i> L.) to Waterlogging Stress. <i>Plants</i> , 2022, 11, 249.	1.6	12
131	Hypoxia tolerance of four millet species is attributable to constitutive aerenchyma formation and root hair development of adventitious roots. <i>Plant Production Science</i> , 2022, 25, 157-171.	0.9	4
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135	A novel 3D X-ray computed tomography (CT) method for spatio-temporal evaluation of waterlogging-induced aerenchyma formation in barley. <i>The Plant Phenome Journal</i> , 2022, 5, .	1.0	6
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142	Phenotyping for waterlogging tolerance in crops: current trends and future prospects. <i>Journal of Experimental Botany</i> , 2022, 73, 5149-5169.	2.4	23
143	Advances in research and utilization of maize wild relatives. <i>Chinese Science Bulletin</i> , 2022, 67, 4370-4387.	0.4	1
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148	A quantitative trait locus conferring flood tolerance to deepwater rice regulates the formation of two distinct types of aquatic adventitious roots. <i>New Phytologist</i> , 2023, 238, 1403-1419.	3.5	7
149	Response of White Cabbage (<i>Brassica oleracea</i> var. <i>capitata</i>) to Single and Repeated Short-Term Waterlogging. <i>Agronomy</i> , 2023, 13, 200.	1.3	3
150	Evolutionary trend of plant community and adaptive strategies of dominant plants in the water-level-fluctuation zone of the Three Gorges Reservoir. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2023, 35, 553-563.	0.3	0
152	SOIL WATERLOGGING STRESS COMPENSATED BY ROOT SYSTEM ADAPTATION IN A POT EXPERIMENT WITH SWEET CORN ZEA MAYS VAR. SACCHARATE. , 2022, , .		0
153	Subsurface aeration mitigates organic material mulching-induced anaerobic stress via regulating hormone signaling in <i>Phyllostachys praecox</i> roots. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	0
154	Plant responses to limited aeration: Advances and future challenges. <i>Plant Direct</i> , 2023, 7, .	0.8	2
155	Asymmetric auxin distribution establishes a contrasting pattern of aerenchyma formation in the nodal roots of <i>Zea nicaraguensis</i> during gravistimulation. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	3

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164	Management of Crops in Water-Logged Soil. Disaster Resilience and Green Growth, 2023, , 233-275.	0.2	0