RESEARCH & PUBLICATIONS

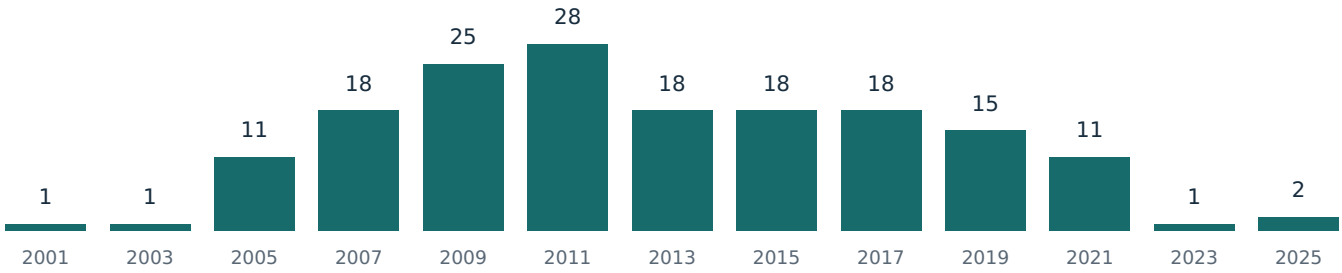
Xianghua Li

A publication record at a glance

167	24,048	83
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



MOST CITED IN THIS LIST

Natural Variation in Ghd7 Is an Important Regulator of Heading Date and Yield Potential in Rice — 1,671

2008 Nature Genetics

Overexpressing a NAM, ATAF, and CUC (NAC) Transcription Factor Enhances Drought Resistance and Salt Tolerance in Rice — 1,477

2006 Proceedings of the National Academy of Sciences of the United States of America

GS3, A Major QTL for Grain Length and Weight and Minor QTL for Grain Width and Thickness in Rice, Encodes a Putative Transmembrane Protein — 1,352

2006 Theoretical and Applied Genetics

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Ordered by publication year, newest first

2026

01 Integrative Regulation of Drought Escape Through ABA-Dependent and -Independent Pathways in Rice.

Molecular Plant · 19, 1932

https://exaly.com/article/217492131

0 citations

2025

02 Novel Repetitive Elements in Plant-Specific Tails of Gγ Proteins as the Functional Unit in G-Protein Signaling in Crops

Plant Cell

https://exaly.com/article/198862176

8 citations

2023

03 Spontaneous Movement of a Retrotransposon Generated Genic Dominant Male Sterility Providing a Useful Tool for Rice Breeding.

National Science Review · 10, nwad210

https://exaly.com/article/166933825

15 citations

2022

04 Natural Variation in WHITE-CORE RATE 1 Regulates Redox Homeostasis in Rice Endosperm to Affect Grain Quality

Plant Cell · 34, 1912-1932

https://exaly.com/article/134547346

117 citations

05 Fine Mapping of qWCR4, a Rice Chalkiness QTL Affecting Yield and Quality

Agronomy · 12, 706

https://exaly.com/article/134842785

6 citations

06 A MITE Variation-Associated Heat-Inducible Isoform of a Heat-Shock Factor Confers Heat Tolerance Through Regulation of Jasmonate ZIM-Domain Genes in Rice

New Phytologist · 234, 1315-1331

https://exaly.com/article/134867032

60 citations

2021

07 Genetic Architecture and Key Genes Controlling the Diversity of Oil Composition in Rice Grains

Molecular Plant · 14, 456-469

https://exaly.com/article/77871332

66 citations

Ordered by publication year, newest first

2021 / continued

08 The Origin of Wxla Provides New Insights Into the Improvement of Grain Quality in Rice — 91 citations
Journal of Integrative Plant Biology · 63, 878-888
https://exaly.com/article/78025801

09 Two VQ Proteins Are Substrates of the OsMPKK6-OsMPK4 Cascade in Rice Defense Against Bacterial Blight — 37 citations
Rice · 14, 1-14
https://exaly.com/article/80122339

10 FLOURY ENDOSPERM19 Encoding a Class I Glutamine Amidotransferase Affects Grain Quality in Rice — 23 citations
Molecular Breeding · 41, 1-15
https://exaly.com/article/80275402

11 Bract Suppression Regulated by the miR156/529-SPLs-NL1-PLA1 Module Is Required for the Transition From Vegetative to Reproductive Branching in Rice — 87 citations
Molecular Plant · 14, 1168-1184
https://exaly.com/article/81553644

12 OsVQ1 Links Rice Immunity and Flowering via Interaction With a Mitogen-Activated Protein Kinase OsMPK6 — 14 citations
Plant Cell Reports · 40, 1989-1999
https://exaly.com/article/81613772

13 The Rice Raf-Like MAPKKK OsILA1 Confers Broad-Spectrum Resistance to Bacterial Blight by Suppressing the OsMAPKK4–OsMAPK6 Cascade — 35 citations
Journal of Integrative Plant Biology · 63, 1815-1842
https://exaly.com/article/81700619

14 Fine Mapping of qWCR7, a Grain Chalkiness QTL in Rice — 7 citations
Molecular Breeding · 41, 1-12
https://exaly.com/article/91166289

2020

15 Autophagy-Like Cell Death Regulates Hydrogen Peroxide and Calcium Ion Distribution in Xa3/Xa26-Mediated Resistance to Xanthomonas oryzae pv. Oryzae — 14 citations
International Journal of Molecular Sciences · 21, 194
https://exaly.com/article/75233432

16 Wide Grain 7 Increases Grain Width by Enhancing H3K4me3 Enrichment in the OsMADS1 Promoter in Rice (Oryza sativa L.) — 38 citations
Plant Journal · 102, 517-528
https://exaly.com/article/75331407

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2020 / continued

17 An Ethyl Methanesulfonate-Induced Neutral Mutant-Bridging Method Efficiently Identifies Spontaneously Mutated Genes in Rice
4 citations
Plant Journal · 104, 1129-1141
https://exaly.com/article/76110408

18 OsHOX1 And OsHOX28 Redundantly Shape Rice Tiller Angle by Reducing HSFA2D Expression and Auxin Content.
76 citations
Plant Physiology · 184, 1424-1437
https://exaly.com/article/76283506

19 Multiple Alleles Encoding Atypical NLRs With Unique Central Tandem Repeats in Rice Confer Resistance to Xanthomonas oryzae pv. Oryzae
48 citations
Plant Communications · 1, 100088
https://exaly.com/article/76779933

20 OsTMF Attenuates Cold Tolerance by Affecting Cell Wall Properties in Rice
40 citations
New Phytologist · 227, 498-512
https://exaly.com/article/76903303

21 Different Cell Wall-Degradation Ability Leads to Tissue-Specificity Between Xanthomonas oryzae pv. Oryzae and Xanthomonas oryzae pv. Oryzicola
17 citations
Pathogens · 9, 187
https://exaly.com/article/76925377

22 A Lamin-Like Protein OsNMCP1 Regulates Drought Resistance and Root Growth Through Chromatin Accessibility Modulation by Interacting With a Chromatin Remodeller OsSWI3C in Rice
44 citations
New Phytologist · 227, 65-83
https://exaly.com/article/77043201

23 Artificial Selection in Domestication and Breeding Prevents Speciation in Rice
19 citations
Molecular Plant · 13, 650-657
https://exaly.com/article/77404168

2019

24 Jasmonic Acid-Involved OsEDS1 Signaling in Rice-Bacteria Interactions
32 citations
Rice · 12, 1-12
https://exaly.com/article/72605206

25 Overexpression a “Fruit-Weight 2.2-Like” Gene OsFWL5 Improves Rice Resistance
8 citations
Rice · 12, 1-6
https://exaly.com/article/72605220

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2019 / continued

26 Reversible Histone H2B Monoubiquitination Fine-Tunes Abscisic Acid Signaling and Drought Response in Rice

64 citations

Molecular Plant · 12, 263-277

https://exaly.com/article/72879180

27 The Host Basal Transcription Factor IIA Subunits Coordinate for Facilitating Infection of TALEs-Carrying Bacterial Pathogens in Rice

18 citations

Plant Science · 284, 48-56

https://exaly.com/article/73564931

28 Hd3a And OsFD1 Negatively Regulate Rice Resistance to Xanthomonas oryzae pv. Oryzae and Xanthomonas oryzae pv. Oryzicola

14 citations

Biochemical and Biophysical Research Communications · 513, 775-780

https://exaly.com/article/73589302

29 The Group I GH3 Family Genes Encoding JA-Ile Synthetase Act as Positive Regulator in the Resistance of Rice to Xanthomonas oryzae pv. Oryzae

34 citations

Biochemical and Biophysical Research Communications · 508, 1062-1066

https://exaly.com/article/74537272

2018

30 A G-Protein Pathway Determines Grain Size in Rice

326 citations

Nature Communications · 9, 1-11

https://exaly.com/article/68805466

31 Integrative Regulation of Drought Escape Through ABA-Dependent and -Independent Pathways in Rice

163 citations

Molecular Plant · 11, 584-597

https://exaly.com/article/68999377

32 Exploring the Mechanism and Efficient Use of a Durable Gene-Mediated Resistance to Bacterial Blight Disease in Rice

19 citations

Molecular Breeding · 38, 1-15

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33 Dominant and Recessive Major R Genes Lead to Different Types of Host Cell Death During Resistance to Xanthomonas oryzae in Rice

14 citations

Frontiers in Plant Science · 9, 418635

https://exaly.com/article/70574236

34 A Cytosolic Triosephosphate Isomerase Is a Key Component in XA3/XA26-Mediated Resistance.

39 citations

Plant Physiology · 178, 923-935

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2018 / continued

35 Genetic Basis of Variation in Rice Seed Storage Protein (Albumin, Globulin, Prolamin, and Glutelin) Content Revealed by Genome-Wide Association Analysis

Frontiers in Plant Science · 9, 353578

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78 citations

36 Allelic Differentiation at the Sg-1 Locus for the Terminal Sugar of the C-22 Position of Group A Saponin in Chinese Wild Soybean (Glycine soja Sieb. & Zucc.)

Molecular Breeding · 38, 1-17

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4 citations

2017

37 Genome-Wide Association Analyses Reveal the Genetic Basis of Stigma Exsertion in Rice

Molecular Plant · 10, 634-644

https://exaly.com/article/65900653

89 citations

38 The OsMYB30 Transcription Factor Suppresses Cold Tolerance by Interacting With a JAZ Protein and Suppressing β-Amylase Expression.

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202 citations

39 Absence of OsβCA1 Causes a CO_2 Deficit and Affects Leaf Photosynthesis and the Stomatal Response to CO_2 in Rice

Plant Journal · 90, 344-357

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43 citations

40 Improvement of Multiple Agronomic Traits by a Disease Resistance Gene via Cell Wall Reinforcement

Nature Plants · 3, 1-9

https://exaly.com/article/66040119

218 citations

41 Characterization of a Disease Susceptibility Locus for Exploring an Efficient Way to Improve Rice Resistance Against Bacterial Blight

Science China Life Sciences · 60, 298-306

https://exaly.com/article/66122780

16 citations

42 Translational Repression by a Miniature Inverted-Repeat Transposable Element in the 3' Untranslated Region

Nature Communications · 8, 1-10

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43 Processes Underlying a Reproductive Barrier in Indica-Japonica Rice Hybrids Revealed by Transcriptome Analysis. 18 citations

Plant Physiology · 174, 1683-1696

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44 MAPK Kinase 10.2 Promotes Disease Resistance and Drought Tolerance by Activating Different MAPKs in Rice 141 citations

Plant Journal · 92, 557-570

https://exaly.com/article/66980967

45 Three Representative Inter and Intra-Subspecific Crosses Reveal the Genetic Architecture of Reproductive Isolation in Rice 28 citations

Plant Journal · 92, 349-362

https://exaly.com/article/67296692

46 A Conserved Basal Transcription Factor Is Required for the Function of Diverse TAL Effectors in Multiple Plant Hosts 25 citations

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https://exaly.com/article/68316395

47 Genetic Control of the Root System in Rice Under Normal and Drought Stress Conditions by Genome-Wide Association Study 147 citations

PLoS Genetics · 13, e1006889

https://exaly.com/article/68475196

2016

48 New Insights Into the Genetic Basis of Natural Chilling and Cold Shock Tolerance in Rice by Genome-Wide Association Analysis 133 citations

Plant, Cell and Environment · 39, 556-570

https://exaly.com/article/63504472

49 PMS1T, Producing Phased Small-Interfering RNAs, Regulates Photoperiod-Sensitive Male Sterility in Rice 267 citations

Proceedings of the National Academy of Sciences of the United States of America · 113, 15144-15149

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50 Two Different Transcripts of a LAMMER Kinase Gene Play Opposite Roles in Disease Resistance. 19 citations

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51 MODD Mediates Deactivation and Degradation of OsbZIP46 to Negatively Regulate ABA Signaling and Drought Resistance in Rice.
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Plant Cell · 28, 2161-2177
https://exaly.com/article/64416446

52 Origination and Establishment of a Trigenic Reproductive Isolation System in Rice
20 citations
Molecular Plant · 9, 1542-1545
https://exaly.com/article/64425353

53 Ghd2, A CONSTANS-Like Gene, Confers Drought Sensitivity Through Regulation of Senescence in Rice.
113 citations
Journal of Experimental Botany · 67, 5785-5798
https://exaly.com/article/64591591

54 Transposon-Derived Small RNA Is Responsible for Modified Function of WRKY45 Locus
100 citations
Nature Plants · 2, 1-8
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55 A Host Basal Transcription Factor Is a Key Component for Infection of Rice by TALE-Carrying Bacteria.
134 citations
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56 Author Response: A Host Basal Transcription Factor Is a Key Component for Infection of Rice by TALE-Carrying Bacteria
1 citations
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2015

57 OsARID3, An AT-Rich Interaction Domain-Containing Protein, Is Required for Shoot Meristem Development in Rice
18 citations
Plant Journal · 83, 806-817
https://exaly.com/article/60640060

58 Small RNAs and Gene Network in a Durable Disease Resistance Gene—Mediated Defense Responses in Rice
23 citations
PLoS ONE · 10, e0137360
https://exaly.com/article/61048596

59 Transcriptome-Based Analysis of Mitogen-Activated Protein Kinase Cascades in the Rice Response to Xanthomonas oryzae Infection
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60 The WRKY45-2 WRKY13 WRKY42 Transcriptional Regulatory Cascade Is Required for Rice Resistance to Fungal Pathogen
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61 Differential Expression of GS5 Regulates Grain Size in Rice.
156 citations
Journal of Experimental Botany · 66, 2611-23
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62 The RING-Finger Ubiquitin Ligase HAF1 Mediates Heading Date 1 Degradation During Photoperiodic Flowering in Rice
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63 A Stress-Responsive NAC Transcription Factor SNAC3 Confers Heat and Drought Tolerance Through Modulation of Reactive Oxygen Species in Rice.
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https://exaly.com/article/62615599

64 Breeding Signatures of Rice Improvement Revealed by a Genomic Variation Map From a Large Germplasm Collection
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65 Coordinated Regulation of Vegetative and Reproductive Branching in Rice
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66 A Stress-Responsive NAC1-Regulated Protein Phosphatase Gene Rice Protein Phosphatase18 Modulates Drought and Oxidative Stress Tolerance Through Abscisic Acid-Independent Reactive Oxygen Species Scavenging in Rice
142 citations
Plant Physiology · 166, 2100-2114
https://exaly.com/article/58244241

67 Grain Number, Plant Height, and Heading Date7 Is a Central Regulator of Growth, Development, and Stress Response
232 citations
Plant Physiology · 164, 735-747
https://exaly.com/article/58445858

68 Multiple Phytohormones and Phytoalexins Are Involved in Disease Resistance to Magnaporthe oryzae Invaded From Roots in Rice
129 citations
Physiologia Plantarum · 152, 486-500
https://exaly.com/article/58876543

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2014 / continued

69 **Rice OsPAD4 Functions Differently From Arabidopsis AtPAD4 in Host-Pathogen Interactions**
62 citations
Plant Journal · 78, 619-631
https://exaly.com/article/58938421

70 **A Homolog of ETHYLENE OVERPRODUCER, OsETOL1, Differentially Modulates Drought and Submergence Tolerance in Rice**
81 citations
Plant Journal · 78, 834-849
https://exaly.com/article/58968767

71 **OsAAP6 Functions as an Important Regulator of Grain Protein Content and Nutritional Quality in Rice**
313 citations
Nature Communications · 5, 1-12
https://exaly.com/article/59367931

72 **Chalk5 Encodes a Vacuolar H+-Translocating Pyrophosphatase Influencing Grain Chalkiness in Rice**
379 citations
Nature Genetics · 46, 398-404
https://exaly.com/article/59402183

73 **Comprehensive Analysis of VQ Motif-Containing Gene Expression in Rice Defense Responses to Three Pathogens**
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Plant Cell Reports · 33, 1493-1505
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74 **Up- and Down-Regulated Expression of OsCPK25/26 Results in Increased Number of Stamens in Rice**
9 citations
Plant Molecular Biology Reporter · 32, 1114-1128
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75 **An Expression Quantitative Trait Loci-Guided Co-Expression Analysis for Constructing Regulatory Network Using a Rice Recombinant Inbred Line Population.**
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76 **Rice MtN3/Saliva/SWEET Gene Family: Evolution, Expression Profiling, and Sugar Transport**
99 citations
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77 **Overexpression of OsSWEET5 in Rice Causes Growth Retardation and Precocious Senescence**
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PLoS ONE · 9, e94210
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78 Carotenoid Deficiency Impairs ABA and IAA Biosynthesis and Differentially Affects Drought and Cold Tolerance in Rice

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Plant Molecular Biology · 83, 475-488

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79 OsAP65, A Rice Aspartic Protease, Is Essential for Male Fertility and Plays a Role in Pollen Germination and Pollen Tube Growth.

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80 The tRNA 3'-End Processing Enzyme tRNase Z2 Contributes to Chloroplast Biogenesis in Rice

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82 Rice WRKY13 Regulates Cross Talk Between Abiotic and Biotic Stress Signaling Pathways by Selective Binding to Different Cis-Elements

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83 Replication Protein A2c Coupled With Replication Protein A1c Regulates Crossover Formation During Meiosis in Rice

31 citations

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84 A GH3 Family Member, OsGH3-2, Modulates Auxin and Abscisic Acid Levels and Differentially Affects Drought and Cold Tolerance in Rice.

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85 Constitutive Activation of Transcription Factor OsbZIP46 Improves Drought Tolerance in Rice.

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86 Gradual Increase of miR156 Regulates Temporal Expression Changes of Numerous Genes During Leaf Development in Rice — 211 citations
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87 A CCCH-Type Zinc Finger Nucleic Acid-Binding Protein Quantitatively Confers Resistance Against Rice Bacterial Blight Disease — 131 citations
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88 The Rice RAD51C Gene Is Required for the Meiosis of Both Female and Male Gametocytes and the DNA Repair of Somatic Cells. — 39 citations
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89 A Killer-Protector System Regulates Both Hybrid Sterility and Segregation Distortion in Rice — 272 citations
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90 RNA-Directed DNA Methylation Is Involved in Regulating Photoperiod-Sensitive Male Sterility in Rice — 149 citations
Molecular Plant · 5, 1210-1216
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91 A Convenient Method for Simultaneous Quantification of Multiple Phytohormones and Metabolites: Application in Study of Rice-Bacterium Interaction — 221 citations
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92 OsLIS-L1 Encoding a Lissencephaly Type-1-Like Protein With WD40 Repeats Is Required for Plant Height and Male Gametophyte Formation in Rice — 44 citations
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93 XIAO Is Involved in the Control of Organ Size by Contributing to the Regulation of Signaling and Homeostasis of Brassinosteroids and Cell Cycling in Rice — 103 citations
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94 Reasons for Lower Transformation Efficiency in Indica Rice Using Agrobacterium tumefaciens-Mediated Transformation: Lessons From Transformation Assays and Genome-Wide Expression Profiling — 51 citations
Plant Molecular Biology · 78, 1-18
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95 OsWRKY45 Alleles Play Different Roles in Abscisic Acid Signalling and Salt Stress Tolerance but Similar Roles in Drought and Cold Tolerance in Rice.
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261 citations
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97 Natural Variation in GS5 Plays an Important Role in Regulating Grain Size and Yield in Rice
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100 A Pair of Orthologs of a Leucine-Rich Repeat Receptor Kinase-Like Disease Resistance Gene Family Regulates Rice Response to Raised Temperature
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2011 / continued

104 Characterization of an Inositol 1,3,4-Trisphosphate 5/6-Kinase Gene That Is Essential for Drought and Salt Stress Responses in Rice — 73 citations

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https://exaly.com/article/51281565

105 Identification of C4 Photosynthesis Metabolism and Regulatory-Associated Genes in Eleocharis vivipara by SSH — 7 citations

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106 Comparison of Quantitative Trait Loci for Rice Yield, Panicle Length and Spikelet Density Across Three Connected Populations — 31 citations

Journal of Genetics · 90, 377-382

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107 Suppression of Glutamate Synthase Genes Significantly Affects Carbon and Nitrogen Metabolism in Rice (Oryza sativa L.) — 44 citations

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108 Rice APOPTOSIS INHIBITOR5 Coupled With Two DEAD-Box Adenosine 5'-Triphosphate-Dependent RNA Helicases Regulates Tapetum Degeneration — 137 citations

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109 Characterization of Xanthomonas oryzae-Responsive Cis-Acting Element in the Promoter of Rice Race-Specific Susceptibility Gene Xa13 — 93 citations

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111 Gains in QTL Detection Using an Ultra-High Density SNP Map Based on Population Sequencing Relative to Traditional RFLP/SSR Markers — 230 citations

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112 Transcriptomic Analysis of Rice Responses to Low Phosphorus Stress — 31 citations

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113 Comparison of Quantitative Trait Loci for 1,000-Grain Weight and Spikelets per Panicle Across Three Connected Rice Populations — 16 citations

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114 A Global Analysis of QTLs for Expression Variations in Rice Shoots at the Early Seedling Stage — 67 citations

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115 Opposite Functions of a Rice Mitogen-Activated Protein Kinase During the Process of Resistance Against Xanthomonas oryzae — 102 citations

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116 The Bacterial Pathogen Xanthomonas oryzae Overcomes Rice Defenses by Regulating Host Copper Redistribution. — 266 citations

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117 A Raf-Like MAPKKK Gene DSM1 Mediates Drought Resistance Through Reactive Oxygen Species Scavenging in Rice — 361 citations

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118 Characterization of the β-Carotene Hydroxylase Gene DSM2 Conferring Drought and Oxidative Stress Resistance by Increasing Xanthophylls and Abscisic Acid Synthesis in Rice — 291 citations

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119 Identification and Application of a Rice Senescence-Associated Promoter. — 83 citations

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