

# Kenneth L McNally

## List of Publications by Year in descending order

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85  
papers

7,480  
citations

87723

38  
h-index

58464

82  
g-index

93  
all docs

93  
docs citations

93  
times ranked

7203  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic variation in 3,010 diverse accessions of Asian cultivated rice. <i>Nature</i> , 2018, 557, 43-49.	13.7	1,091
2	Genomewide SNP variation reveals relationships among landraces and modern varieties of rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12273-12278.	3.3	581
3	The 3,000 rice genomes project. <i>GigaScience</i> , 2014, 3, 7.	3.3	451
4	Genomes of 13 domesticated and wild rice relatives highlight genetic conservation, turnover and innovation across the genus <i>Oryza</i> . <i>Nature Genetics</i> , 2018, 50, 285-296.	9.4	413
5	Open access resources for genome-wide association mapping in rice. <i>Nature Communications</i> , 2016, 7, 10532.	5.8	371
6	SNP-Seek database of SNPs derived from 3000 rice genomes. <i>Nucleic Acids Research</i> , 2015, 43, D1023-D1027.	6.5	357
7	Rice SNP-seek database update: new SNPs, indels, and queries. <i>Nucleic Acids Research</i> , 2017, 45, D1075-D1081.	6.5	290
8	Variation in root system architecture and drought response in rice ( <i>Oryza sativa</i> ): Phenotyping of the OryzaSNP panel in rainfed lowland fields. <i>Field Crops Research</i> , 2011, 120, 205-214.	2.3	261
9	The complete DNA sequence of the mitochondrial genome of <i>Podospira anserina</i> . <i>Current Genetics</i> , 1990, 17, 375-402.	0.8	215
10	Convergent evolution of perenniality in rice and sorghum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4050-4054.	3.3	196
11	Evaluation of near-isogenic lines of rice introgressed with QTLs for root depth through marker-aided selection. <i>Theoretical and Applied Genetics</i> , 2001, 103, 75-83.	1.8	192
12	Drought Resistance Improvement in Rice: An Integrated Genetic and Resource Management Strategy. <i>Plant Production Science</i> , 2011, 14, 1-14.	0.9	192
13	Genomics of gene banks: A case study in rice. <i>American Journal of Botany</i> , 2012, 99, 407-423.	0.8	152
14	High-throughput single nucleotide polymorphism genotyping for breeding applications in rice using the BeadXpress platform. <i>Molecular Breeding</i> , 2012, 29, 875-886.	1.0	139
15	Improvement of Drought Resistance in Rice. <i>Advances in Agronomy</i> , 2009, , 41-99.	2.4	122
16	New allelic variants found in key rice salt-tolerance genes: an association study. <i>Plant Biotechnology Journal</i> , 2013, 11, 87-100.	4.1	120
17	Structural variants in 3000 rice genomes. <i>Genome Research</i> , 2019, 29, 870-880.	2.4	112
18	Genetic Variation in Biomass Traits among 20 Diverse Rice Varieties. <i>Plant Physiology</i> , 2011, 155, 157-168.	2.3	96

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19	SMALL-SUBUNIT RIBOSOMAL DNA SEQUENCE ANALYSES AND A RECONSTRUCTION OF THE INFERRED PHYLOGENY AMONG SYMBIOTIC DINOFLAGELLATES (PYRRROPHYTA)1. <i>Journal of Phycology</i> , 1994, 30, 316-329.	1.0	93
20	A platinum standard pan-genome resource that represents the population structure of Asian rice. <i>Scientific Data</i> , 2020, 7, 113.	2.4	86
21	Rapid method for detecting SNPs on agarose gels and its application in candidate gene mapping. <i>Molecular Breeding</i> , 2007, 19, 87-101.	1.0	85
22	Sequencing Multiple and Diverse Rice Varieties. Connecting Whole-Genome Variation with Phenotypes. <i>Plant Physiology</i> , 2006, 141, 26-31.	2.3	84
23	Towards a deeper haplotype mining of complex traits in rice with <scp>RFGB</scp> v2.0. <i>Plant Biotechnology Journal</i> , 2020, 18, 14-16.	4.1	78
24	Development of a Research Platform for Dissecting Phenotype-Genotype Associations in Rice ( <i>Oryza</i> ) Tj ETQq0 0.0 rgBT /Overlock 10	1.7	75
25	Alternate wetting and drying irrigation for rice in Bangladesh: Is it sustainable and has plant breeding something to offer?. <i>Food and Energy Security</i> , 2013, 2, 120-129.	2.0	74
26	Field-based high throughput phenotyping rapidly identifies genomic regions controlling yield components in rice. <i>Scientific Reports</i> , 2017, 7, 42839.	1.6	74
27	Rice Molecular Breeding Laboratories in the Genomics Era: Current Status and Future Considerations. <i>International Journal of Plant Genomics</i> , 2008, 2008, 1-25.	2.2	68
28	Structure, allelic diversity and selection of <i>Asr</i> genes, candidate for drought tolerance, in <i>Oryza sativa</i> L. and wild relatives. <i>Theoretical and Applied Genetics</i> , 2010, 121, 769-787.	1.8	68
29	Leaf morphology, rather than plant water status, underlies genetic variation of rice leaf rolling under drought. <i>Plant, Cell and Environment</i> , 2019, 42, 1532-1544.	2.8	67
30	An imputation platform to enhance integration of rice genetic resources. <i>Nature Communications</i> , 2018, 9, 3519.	5.8	65
31	Assessing the genetic diversity of rice originating from Bangladesh, Assam and West Bengal. <i>Rice</i> , 2015, 8, 35.	1.7	63
32	Allele mining and enhanced genetic recombination for rice breeding. <i>Rice</i> , 2015, 8, 34.	1.7	57
33	DNA sequence analysis of the 24.5 Kilobase pair cytochrome oxidase subunit I mitochondrial gene from <i>Podospora anserina</i> : a gene with sixteen introns. <i>Current Genetics</i> , 1989, 16, 381-406.	0.8	56
34	Identification of stable QTLs causing chalk in rice grains in nine environments. <i>Theoretical and Applied Genetics</i> , 2016, 129, 141-153.	1.8	54
35	SNP-Seek II: A resource for allele mining and analysis of big genomic data in <i>Oryza sativa</i> . <i>Current Plant Biology</i> , 2016, 7-8, 16-25.	2.3	48
36	Nucleotide diversity analysis highlights functionally important genomic regions. <i>Scientific Reports</i> , 2016, 6, 35730.	1.6	48

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37	Migration, isolation and hybridization in island crop populations: the case of Madagascar rice. <i>Molecular Ecology</i> , 2010, 19, 4892-4905.	2.0	47
38	Variation in seed longevity among diverse Indica rice varieties. <i>Annals of Botany</i> , 2019, 124, 447-460.	1.4	45
39	The nucleotide sequence of the small subunit ribosomal RNA gene from <i>Symbiodinium pilosum</i> , a symbiotic dinoflagellate. <i>Current Genetics</i> , 1992, 21, 409-416.	0.8	42
40	Screening of rice Genebank germplasm for yield and selection of new drought tolerance donors. <i>Field Crops Research</i> , 2013, 147, 12-22.	2.3	41
41	Genome Wide Association Mapping of Grain and Straw Biomass Traits in the Rice Bengal and Assam Aus Panel (BAAP) Grown Under Alternate Wetting and Drying and Permanently Flooded Irrigation. <i>Frontiers in Plant Science</i> , 2018, 9, 1223.	1.7	41
42	Linking genotype to phenotype: the International Rice Information System (IRIS). <i>Bioinformatics</i> , 2003, 19, i63-i65.	1.8	38
43	Isolation and sequence analysis of DREB2A homologues in three cereal and two legume species. <i>Plant Science</i> , 2009, 177, 460-467.	1.7	33
44	Fine Scale Genomic Signals of Admixture and Alien Introgression among Asian Rice Landraces. <i>Genome Biology and Evolution</i> , 2019, 11, 1358-1373.	1.1	32
45	DNA sequence analysis of the apocytochrome b gene of <i>Podospora anserina</i> : a new family of intronic open reading frame. <i>Current Genetics</i> , 1989, 16, 407-418.	0.8	31
46	Rice functional genomics and breeding database (RFGB)-3K-rice SNP and InDel sub-database. <i>Chinese Science Bulletin</i> , 2015, 60, 367-371.	0.4	31
47	Genetic Loci Governing Grain Yield and Root Development under Variable Rice Cultivation Conditions. <i>Frontiers in Plant Science</i> , 2017, 8, 1763.	1.7	30
48	Genetic diversity and phylogenetic relationship in AA <i>Oryza</i> species as revealed by Rim2/Hipa CACTA transposon display. <i>Genes and Genetic Systems</i> , 2006, 81, 93-101.	0.2	28
49	Genetic diversity of rice tungro spherical virus in tungro-endemic provinces of the Philippines and Indonesia. <i>Archives of Virology</i> , 2000, 145, 1183-1197.	0.9	27
50	From bits to bites: Advancement of the Germinate platform to support prebreeding informatics for crop wild relatives. <i>Crop Science</i> , 2021, 61, 1538-1566.	0.8	26
51	A High-throughput Genomic Tool: Diversity Array Technology Complementary for Rice Genotyping. <i>Journal of Integrative Plant Biology</i> , 2006, 48, 1069-1076.	4.1	25
52	DNA sequence analysis of the mitochondrial ND4L-ND5 gene complex from <i>Podospora anserina</i> . <i>Journal of Molecular Biology</i> , 1990, 212, 269-286.	2.0	24
53	Crossability patterns within and among <i>Oryza</i> series <i>Sativae</i> species from Asia and Australia. <i>Genetic Resources and Crop Evolution</i> , 2013, 60, 1899-1914.	0.8	24
54	Environmental Response and Genomic Regions Correlated with Rice Root Growth and Yield under Drought in the OryzaSNP Panel across Multiple Study Systems. <i>PLoS ONE</i> , 2015, 10, e0124127.	1.1	24

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55	Developmental Dynamics and Early Growth Vigour in Rice. Relationship Between Development Rate (1/Phyllochron) and Growth. <i>Journal of Agronomy and Crop Science</i> , 2012, 198, 374-384.	1.7	22
56	State of ex situ conservation of landrace groups of 25 major crops. <i>Nature Plants</i> , 2022, 8, 491-499.	4.7	21
57	Use of EcoTILLING to identify natural allelic variants of rice candidate genes involved in salinity tolerance. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 300-304.	0.4	19
58	Development of a Core Set from a Large Rice Collection using a Modified Heuristic Algorithm to Retain Maximum Diversity. <i>Journal of Integrative Plant Biology</i> , 2009, 51, 1116-1125.	4.1	16
59	Genetic composition and complexity of virus populations at tungro-endemic and outbreak rice sites. <i>Archives of Virology</i> , 2000, 145, 2643-2657.	0.9	14
60	Local differentiation amidst extensive allele sharing in <i>Oryza nivara</i> and <i>O. rufipogon</i> . <i>Ecology and Evolution</i> , 2013, 3, 3047-3062.	0.8	14
61	Chemical- and Irradiation-Induced Mutants and TILLING. , 2007, , 148-180.		13
62	Identification of SUB1A alleles from wild rice <i>Oryza rufipogon</i> Griff.. <i>Genetic Resources and Crop Evolution</i> , 2011, 58, 1237-1242.	0.8	13
63	Ecogeographic Variation in the Morphology of Two Asian Wild Rice Species, <i>Oryza nivara</i> and <i>Oryza rufipogon</i> . <i>International Journal of Plant Sciences</i> , 2013, 174, 896-909.	0.6	13
64	Cell Wall Composition and Bioenergy Potential of Rice Straw Tissues Are Influenced by Environment, Tissue Type, and Genotype. <i>Bioenergy Research</i> , 2015, 8, 1165-1182.	2.2	13
65	Novel Sources of Pre-Harvest Sprouting Resistance for Japonica Rice Improvement. <i>Plants</i> , 2021, 10, 1709.	1.6	11
66	Isolation and sequence analysis of the small subunit ribosomal RNA gene from the euryhaline yeast <i>Debaryomyces hansenii</i> . <i>Current Genetics</i> , 1992, 22, 191-195.	0.8	10
67	Use of introgression lines and zonal mapping to identify RAPD markers linked to QTL. <i>Molecular Breeding</i> , 1997, 3, 203-212.	1.0	10
68	Phenotypic response of farmer-selected CWR-derived rice lines to salt stress in the Mekong Delta. <i>Crop Science</i> , 2021, 61, 201-218.	0.8	10
69	Aus rice root architecture variation contributing to grain yield under drought suggests a key role of nodal root diameter class. <i>Plant, Cell and Environment</i> , 2022, 45, 854-870.	2.8	10
70	Fertility in an interspecific rice population and its effect on selection for rhizome length. <i>Field Crops Research</i> , 2006, 95, 30-38.	2.3	7
71	Advanced Strategic Research to Promote the Use of Rice Genetic Resources. <i>Agronomy</i> , 2020, 10, 1629.	1.3	7
72	Genetic erosion in traditional rice agro-ecosystems in Southern Philippines: drivers and consequences. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2020, 18, 1-10.	0.4	7

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73	Upland Rice: Cultural Keystone Species in a Philippine Traditional Agroecosystem. Asian Journal of Agriculture and Development, 2020, 17, 93-105.	0.1	6
74	Mitochondrial DNA sequence analysis of the cytochrome oxidase subunit II gene from <i>Podospira anserina</i> . Journal of Molecular Biology, 1990, 212, 287-294.	2.0	5
75	Phenotypic Variation and the Impact of Admixture in the <i>Oryza rufipogon</i> Species Complex (ORSC). Frontiers in Plant Science, 0, 13, .	1.7	5
76	Genetic diversity, linkage disequilibrium, and population structure in a panel of Brazilian rice accessions. Journal of Applied Genetics, 2019, 60, 27-31.	1.0	4
77	Progress in single-access information systems for wheat and rice crop improvement. Briefings in Bioinformatics, 2019, 20, 565-571.	3.2	4
78	Genetic diversity patterns in ex situ collections of <i>Oryza officinalis</i> Wall. ex G. Watt revealed by morphological and microsatellite markers. Genetic Resources and Crop Evolution, 2017, 64, 733-744.	0.8	3
79	Traditional agro-ecosystems in Southern Philippines. International Journal of Disaster Resilience in the Built Environment, 2019, 10, 289-300.	0.7	3
80	Editorial: Reproductive Barriers and Gene Introgression in Rice Species. Frontiers in Plant Science, 2021, 12, 699761.	1.7	2
81	Revealing sequence variation patterns in rice with machine learning methods. BMC Bioinformatics, 2008, 9, .	1.2	1
82	SNP discovery at candidate genes for drought responsiveness in rice. , 2009, , 311-324.		1
83	Mass genome sequencing of crops and wild relatives to accelerate crop breeding: the digital rice genebank. IOP Conference Series: Earth and Environmental Science, 2020, 482, 012005.	0.2	1
84	Characterizing genetic diversity and creating novel gene pools in rice for trait dissection and gene function discovery. Nature Precedings, 2010, , .	0.1	0
85	Exploring 'omics' of genetic resources to mitigate the effects of climate change.. , 2014, , 166-189.		0