Richard K Hughes

List of Publications by Year
in descending order

42	2,110	186265	276875
papers	citations	28 h-index	41 g-index

46	46	46	3211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A molecular roadmap to the plant immune system. Journal of Biological Chemistry, 2020, 295, 14916-14935.	3.4	86
2	N-terminal Î²-strand underpins biochemical specialization of an ATG8 isoform. PLoS Biology, 2019, 17, e3000373.	5.6	47
3	Structural and biochemical studies of an NB-ARC domain from a plant NLR immune receptor. PLoS ONE, 2019, 14, e0221226.	2.5	43
4	Phytophthora infestans effector <scp>SFI</scp>3 targets potato <scp>UBK</scp> to suppress early immune transcriptional responses. New Phytologist, 2019, 222, 438-454.	7.3	33
5	Structureâ€“function analysis of the Fusarium oxysporum Avr2 effector allows uncoupling of its immuneâ€suppressing activity from recognition. New Phytologist, 2017, 216, 897-914.	7.3	72
6	An effector of the Irish potato famine pathogen antagonizes a host autophagy cargo receptor. ELife, 2016, 5, .	6.0	189
7	Structural Basis of Host Autophagy-related Protein 8 (ATG8) Binding by the Irish Potato Famine Pathogen Effector Protein PexRD54. Journal of Biological Chemistry, 2016, 291, 20270-20282.	3.4	74
8	A conserved amino acid residue critical for product and substrate specificity in plant triterpene synthases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4407-14.	7.1	53
9	Production of RXLR Effector Proteins for Structural Analysis by X-Ray Crystallography. Methods in Molecular Biology, 2014, 1127, 231-253.	0.9	1
10	The Xâ€ray crystal structure of APRâ€B, an atypical adenosine 5â€²â€phosphosulfate reductase from Physcomitrella patens. FEBS Letters, 2013, 587, 3626-3632.	2.8	3
11	Biochemical analysis of a multifunctional cytochrome P450 (CYP51) enzyme required for synthesis of antimicrobial triterpenes in plants. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3360-7.	7.1	137
12	Glycosyltransferases from Oat (Avena) Implicated in the Acylation of Avenacins. Journal of Biological Chemistry, 2013, 288, 3696-3704.	3.4	35
13	Distinct regions of the Pseudomonas syringae coiled-coil effector AvrRps4 are required for activation of immunity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16371-16376.	7.1	81
14	Structures of Phytophthora RXLR Effector Proteins. Journal of Biological Chemistry, 2011, 286, 35834-35842.	3.4	178
15	A Serine Carboxypeptidase-Like Acyltransferase Is Required for Synthesis of Antimicrobial Compounds and Disease Resistance in Oats Â. Plant Cell, 2009, 21, 2473-2484.	6.6	149
16	Isolation and characterisation of a xylanase inhibitor Xip-II gene from durum wheat. Journal of Cereal Science, 2009, 50, 324-331.	3.7	6
17	Plant Cytochrome CYP74 Family: Biochemical Features, Endocellular Localisation, Activation Mechanism in Plant Defence and Improvements for Industrial Applications. ChemBioChem, 2009, 10, 1122-1133.	2.6	76
18	Evidence for communality in the primary determinants of CYP74 catalysis and of structural similarities between CYP74 and classical mammalian P450 enzymes. Proteins: Structure, Function and Bioinformatics, 2008, 72, 1199-1211.	2.6	16

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19	The gateway pDEST17 expression vector encodes a â^'1 ribosomal frameshifting sequence. Nucleic Acids Research, 2007, 35, 1322-1332.	14.5	5
20	Subcellular localisation of Medicago truncatula9/13-hydroperoxide lyase reveals a new localisation pattern and activation mechanism for CYP74C enzymes. BMC Plant Biology, 2007, 7, 58.	3.6	30
21	Allene oxide synthase fromArabidopsis thaliana(CYP74A1) exhibits dual specificity that is regulated by monomer-micelle association. FEBS Letters, 2006, 580, 4188-4194.	2.8	29
22	Characterization of Medicago truncatula (barrel medic) hydroperoxide lyase (CYP74C3), a water-soluble detergent-free cytochrome P450 monomer whose biological activity is defined by monomerâ€"micelle association. Biochemical Journal, 2006, 395, 641-652.	3.7	21
23	Emergence of a subfamily of xylanase inhibitors within glycoside hydrolase family 18. FEBS Journal, 2005, 272, 1745-1755.	4.7	74
24	Molecular cloning and characterization of an almond 9-hydroperoxide lyase, a new CYP74 targeted to lipid bodies*. Journal of Experimental Botany, 2005, 56, 2321-2333.	4.8	54
25	Cloning and characterisation of an almond 9-lipoxygenase expressed early during seed development. Plant Science, 2005, 168, 699-706.	3.6	21
26	Recombinant Lipoxygenases and Oxylipin Metabolism in Relation to Food Quality. Food Biotechnology, 2004, 18, 135-170.	1.5	30
27	Interactions defining the specificity between fungal xylanases and the xylanase-inhibiting protein XIP-I from wheat. Biochemical Journal, 2002, 365, 773-781.	3.7	105
28	Functional identification of the cDNA coding for a wheat endo-1,4-Î²-D-xylanase inhibitor1. FEBS Letters, 2002, 519, 66-70.	2.8	42
29	Probing a novel potato lipoxygenase with dual positional specificity reveals primary determinants of substrate binding and requirements for a surface hydrophobic loop and has implications for the role of lipoxygenases in tubers. Biochemical Journal, 2001, 353, 345.	3.7	34
30	Probing a novel potato lipoxygenase with dual positional specificity reveals primary determinants of substrate binding and requirements for a surface hydrophobic loop and has implications for the role of lipoxygenases in tubers. Biochemical Journal, 2001, 353, 345-355.	3.7	39
31	Mutagenesis and modelling of linoleate-binding to pea seed lipoxygenase. FEBS Journal, 2001, 268, 1030-1040.	0.2	30
32	Genes affecting starch biosynthesis exert pleiotropic effects on the protein content and composition of pea seeds. Journal of the Science of Food and Agriculture, 2001, 81, 877-882.	3.5	11
33	Kinetics of thermal inactivation of pea seed lipoxygenases and the effect of additives on their thermostability. Food Chemistry, 1999, 65, 323-329.	8.2	46
34	New frontiers in food enzymology: recombinant lipoxygenases. Trends in Food Science and Technology, 1999, 10, 297-302.	15.1	40
35	Co-oxidation of Î²-Carotene Catalyzed by Soybean and Recombinant Pea Lipoxygenases. Journal of Agricultural and Food Chemistry, 1999, 47, 4899-4906.	5.2	91
36	Characterization of authentic recombinant pea-seed lipoxygenases with distinct properties and reaction mechanisms. Biochemical Journal, 1998, 333, 33-43.	3.7	49

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37	Evidence for Proteolytic Processing of Tobacco Mosaic Virus Movement Protein inArabidopsis thaliana. Molecular Plant-Microbe Interactions, 1995, 8, 658.	2.6	21
38	Drosophila xanthine dehydrogenase variants re-visited: a reply. Biochemical Journal, 1994, 300, 917-917.	3.7	1
39	Xanthine dehydrogenase from Drosophila melanogaster: purification and properties of the wild-type enzyme and of a variant lacking iron-sulfur centers. Biochemistry, 1992, 31, 3073-3083.	2.5	28
40	Roles of molybdenum, FAD and iron-sulphur domains in molybdenum-containing hydroxylases: molecular genetic, kinetic and spectroscopic studies. Biochemical Society Transactions, 1991, 19, 260S-260S.	3.4	4
41	The effect of ethylene on phenylalanine ammonia lyase (PAL) induction by a fungal elicitor in Phaseolus vulgaris. Physiological and Molecular Plant Pathology, 1989, 34, 361-378.	2.5	23
42	Oligomerization of Hydroperoxide Lyase, aÂNovel P450 Enzyme in Plants. , 0, , 116-120.		0