Johnathan A Napier

List of Publications by Year
in descending order

196 papers	14,281 citations	17440 63 h-index	23530 111 g-index
205 all docs	205 docs citations	205 times ranked	13034 citing authors

#	Article	IF	Citations
1	Prospects to improve the nutritional quality of crops. Food and Energy Security, 2022, 11, e327.	4.3	15
2	Enhancing the accumulation of eicosapentaenoic acid and docosahexaenoic acid in transgenic Camelina through the <scp>CRISPRâ€Cas9</scp> inactivation of the competing <scp><i>FAE1</i></scp> pathway. Plant Biotechnology Journal, 2022, 20, 1444-1446.	8.3	7
3	Lipidomic Analysis of Plasma from Healthy Men and Women Shows Phospholipid Class and Molecular Species Differences between Sexes. Lipids, 2021, 56, 229-242.	1.7	8
4	Plastidial acyl carrier protein Î”9â€desaturase modulates eicosapentaenoic acid biosynthesis and triacylglycerol accumulation in <i>Phaeodactylum tricornutum</i>. Plant Journal, 2021, 106, 1247-1259.	5.7	18
5	Transgenic camelina oil is an effective source of eicosapentaenoic acid and docosahexaenoic acid in diets for farmed rainbow trout, in terms of growth, tissue fatty acid content, and fillet sensory properties. Journal of the World Aquaculture Society, 2021, 52, 961-986.	2.4	7
6	Synaptotagmins at the endoplasmic reticulumâ€“plasma membrane contact sites maintain diacylglycerol homeostasis during abiotic stress. Plant Cell, 2021, 33, 2431-2453.	6.6	41
7	A Field Day for Gene-Edited Brassicas and Crop Improvement. CRISPR Journal, 2021, 4, 307-312.	2.9	1
8	Dietary Supplementation with Transgenic Camelina sativa Oil Containing 20:5n-3 and 22:6n-3 or Fish Oil Induces Differential Changes in the Transcriptome of CD3+ T Lymphocytes. Nutrients, 2021, 13, 3116.	4.1	1
9	Sphingolipids: towards an integrated view of metabolism during the plant stress response. New Phytologist, 2020, 225, 659-670.	7.3	81
10	Nutritional enhancement in plants â€“ green and greener. Current Opinion in Biotechnology, 2020, 61, 122-127.	6.6	15
11	Impairment of DHA synthesis alters the expression of neuronal plasticity markers and the brain inflammatory status in mice. FASEB Journal, 2020, 34, 2024-2040.	0.5	23
12	Agriculture can help aquaculture become greener. Nature Food, 2020, 1, 680-683.	14.0	33
13	Overexpression of an endogenous type 2 diacylglycerol acyltransferase in the marine diatom Phaeodactylum tricornutum enhances lipid production and omega-3 long-chain polyunsaturated fatty acid content. Biotechnology for Biofuels, 2020, 13, 87.	6.2	47
14	Dietary supplementation with seed oil from transgenic<i>Camelina sativa</i>induces similar increments in plasma and erythrocyte DHA and EPA to fish oil in healthy humans. British Journal of Nutrition, 2020, 124, 922-930.	2.3	23
15	Differential postprandial incorporation of 20:5n-3 and 22:6n-3 into individual plasma triacylglycerol and phosphatidylcholine molecular species in humans. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158710.	2.4	6
16	High level accumulation of EPA and DHA in fieldâ€grown transgenic Camelina â€“ a multiâ€territory evaluation of TAG accumulation and heterogeneity. Plant Biotechnology Journal, 2020, 18, 2280-2291.	8.3	29
17	Bioengineering horizon scan 2020. ELife, 2020, 9, .	6.0	19
18	The overexpression of rice <scp>ACYL</scp>â€<scp>CoA</scp>â€<scp>BINDING PROTEIN</scp>2 increases grain size and bran oil content in transgenic rice. Plant Journal, 2019, 100, 1132-1147.	5.7	28

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19	Multifunctionalizing the marine diatom Phaeodactylum tricornutum for sustainable co-production of omega-3 long chain polyunsaturated fatty acids and recombinant phytase. Scientific Reports, 2019, 9, 11444.	3.3	35
20	The challenges of delivering genetically modified crops with nutritional enhancement traits. Nature Plants, 2019, 5, 563-567.	9.3	48
21	Postprandial incorporation of EPA and DHA from transgenic Camelina sativa oil into blood lipids is equivalent to that from fish oil in healthy humans. British Journal of Nutrition, 2019, 121, 1235-1246.	2.3	25
22	Arabidopsis cytosolic acylâ€CoAâ€binding proteins function in determining seed oil composition. Plant Direct, 2019, 3, e00182.	1.9	17
23	Omega-3 Long-Chain Polyunsaturated Fatty Acids, EPA and DHA: Bridging the Gap between Supply and Demand. Nutrients, 2019, 11, 89.	4.1	351
24	Update on <scp>GM</scp> canola crops as novel sources of omegaâ€3 fish oils. Plant Biotechnology Journal, 2019, 17, 703-705.	8.3	70
25	Oil from transgenic<i>Camelina sativa</i>containing over 25 %<i>n</i>-3 long-chain PUFA as the major lipid source in feed for Atlantic salmon (<i>Salmo salar</i>). British Journal of Nutrition, 2018, 119, 1378-1392.	2.3	49
26	Europeâ€™s first and last field trial of gene-edited plants?. ELife, 2018, 7, .	6.0	25
27	<i>Chlamydomonas</i> carries out fatty acid Î²â€oxidation in ancestral peroxisomes using a bona fide acylâ€CoA oxidase. Plant Journal, 2017, 90, 358-371.	5.7	80
28	Tailoring the composition of novel wax esters in the seeds of transgenic <i>Camelina sativa</i> through systematic metabolic engineering. Plant Biotechnology Journal, 2017, 15, 837-849.	8.3	28
29	Modulation of lipid biosynthesis by stress in diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160407.	4.0	97
30	Tailoring seed oil composition in the real world: optimising omega-3 long chain polyunsaturated fatty acid accumulation in transgenic Camelina sativa. Scientific Reports, 2017, 7, 6570.	3.3	79
31	Towards the development of a sustainable soya beanâ€based feedstock for aquaculture. Plant Biotechnology Journal, 2017, 15, 227-236.	8.3	24
32	A transatlantic perspective on 20 emerging issues in biological engineering. ELife, 2017, 6, .	6.0	49
33	An oil containing EPA and DHA from transgenic Camelina sativa to replace marine fish oil in feeds for Atlantic salmon (Salmo salar L.): Effects on intestinal transcriptome, histology, tissue fatty acid profiles and plasma biochemistry. PLoS ONE, 2017, 12, e0175415.	2.5	66
34	Heterotrophic Production of Omega-3 Long-Chain Polyunsaturated Fatty Acids by Trophically Converted Marine Diatom Phaeodactylum tricornutum. Marine Drugs, 2016, 14, 53.	4.6	81
35	Synthetic redesign of plant lipid metabolism. Plant Journal, 2016, 87, 76-86.	5.7	72
36	Plant sphingolipids: Their importance in cellular organization and adaption. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1329-1335.	2.4	154

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37	A Transgenic Camelina sativa Seed Oil Effectively Replaces Fish Oil as a Dietary Source of Eicosapentaenoic Acid in Mice. Journal of Nutrition, 2016, 146, 227-235.	2.9	23
38	Engineering synthetic pathways for the production of pharmaceutical sciadonic acid in transgenic oilseed Camelina sativa. New Biotechnology, 2016, 33, S46.	4.4	2
39	Sunflower HaGPAT9-1 is the predominant GPAT during seed development. Plant Science, 2016, 252, 42-52.	3.6	30
40	Intragenus competition between coccolithoviruses: an insight on how a select few can come to dominate many. Environmental Microbiology, 2016, 18, 133-145.	3.8	18
41	The Zinc-Finger Protein SOP1 Is Required for a Subset of the Nuclear Exosome Functions in Arabidopsis. PLoS Genetics, 2016, 12, e1005817.	3.5	36
42	Nutritional Evaluation of an EPA-DHA Oil from Transgenic Camelina sativa in Feeds for Post-Smolt Atlantic Salmon (Salmo salar L.). PLoS ONE, 2016, 11, e0159934.	2.5	66
43	Dual Fatty Acid Elongase Complex Interactions in Arabidopsis. PLoS ONE, 2016, 11, e0160631.	2.5	22
44	Metabolic Engineering of Microalgae For Sustainable Production of Omega-3 Long Chain Polyunsaturated Fatty Acids. Current Biotechnology, 2016, 5, 198-212.	0.4	6
45	Transgenic plants as a sustainable, terrestrial source of fish oils. European Journal of Lipid Science and Technology, 2015, 117, 1317-1324.	1.5	67
46	The first crop plant genetically engineered to release an insect pheromone for defence. Scientific Reports, 2015, 5, 11183.	3.3	133
47	Towards the Industrial Production of Omega-3 Long Chain Polyunsaturated Fatty Acids from a Genetically Modified Diatom Phaeodactylum tricornutum. PLoS ONE, 2015, 10, e0144054.	2.5	99
48	Sphingolipid metabolism is strikingly different between pollen and leaf in Arabidopsis as revealed by compositional and gene expression profiling. Phytochemistry, 2015, 115, 121-129.	2.9	42
49	ECERIFERUM2-LIKE Proteins Have Unique Biochemical and Physiological Functions in Very-Long-Chain Fatty Acid Elongation Â. Plant Physiology, 2015, 167, 682-692.	4.8	101
50	An alternative pathway for the effective production of the omegaâ€3 longâ€chain polyunsaturates EPA and ETA in transgenic oilseeds. Plant Biotechnology Journal, 2015, 13, 1264-1275.	8.3	53
51	Modifying the lipid content and composition of plant seeds: engineering the production of LC-PUFA. Applied Microbiology and Biotechnology, 2015, 99, 143-154.	3.6	65
52	Molecular characterization of two isoforms of a farnesyl pyrophosphate synthase gene in wheat and their roles in sesquiterpene synthesis and inducible defence against aphid infestation. New Phytologist, 2015, 206, 1101-1115.	7.3	26
53	Field trial evaluation of the accumulation of omega-3 long chain polyunsaturated fatty acids in transgenic Camelina sativa: Making fish oil substitutes in plants. Metabolic Engineering Communications, 2015, 2, 93-98.	3.6	64
54	Gluten quality of bread wheat is associated with activity of RabD <scp>GTP</scp>ases. Plant Biotechnology Journal, 2015, 13, 163-176.	8.3	12

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55	Rice ORMDL Controls Sphingolipid Homeostasis Affecting Fertility Resulting from Abnormal Pollen Development. PLoS ONE, 2014, 9, e106386.	2.5	25
56	Gene Expression in Plant Lipid Metabolism in Arabidopsis Seedlings. PLoS ONE, 2014, 9, e107372.	2.5	31
57	<i>Arabidopsis</i> cytosolic acyl-CoA-binding proteins ACBP4, ACBP5 and ACBP6 have overlapping but distinct roles in seed development. Bioscience Reports, 2014, 34, e00165.	2.4	53
58	Permanent draft genomes of four new coccolithoviruses: EhV-18, EhV-145, EhV-156 and EhV-164. Marine Genomics, 2014, 15, 7-8.	1.1	6
59	Successful highâ€level accumulation of fish oil omegaâ€3 longâ€chain polyunsaturated fatty acids in a transgenic oilseed crop. Plant Journal, 2014, 77, 198-208.	5.7	276
60	Delivering sustainable crop protection systems via the seed: exploiting natural constitutive and inducible defence pathways. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20120281.	4.0	20
61	Metabolic engineering of Phaeodactylum tricornutum for the enhanced accumulation of omega-3 long chain polyunsaturated fatty acids. Metabolic Engineering, 2014, 22, 3-9.	7.0	260
62	Modifying fatty acid profiles through a new cytokininâ€based plastid transformation system. Plant Journal, 2014, 80, 1131-1138.	5.7	12
63	Understanding and manipulating plant lipid composition: Metabolic engineering leads the way. Current Opinion in Plant Biology, 2014, 19, 68-75.	7.1	93
64	Oleaginous crops as integrated production platforms for food, feed, fuel and renewable industrial feedstock. OCL - Oilseeds and Fats, Crops and Lipids, 2014, 21, D606.	1.4	13
65	Pan genome of the phytoplankton Emiliania underpins its global distribution. Nature, 2013, 499, 209-213.	27.8	448
66	The Arabidopsis F-box/Kelch-Repeat Protein At2g44130 Is Upregulated in Giant Cells and Promotes Nematode Susceptibility. Molecular Plant-Microbe Interactions, 2013, 26, 36-43.	2.6	28
67	The modification of plant oil composition via metabolic engineeringâ€"better nutrition by design. Plant Biotechnology Journal, 2013, 11, 157-168.	8.3	88
68	Plant sphingolipids: function follows form. Current Opinion in Plant Biology, 2013, 16, 350-357.	7.1	157
69	Identification of a cytochrome b5-fusion desaturase responsible for the synthesis of triunsaturated sphingolipid long chain bases in the marine diatom Thalassiosira pseudonana. Phytochemistry, 2013, 90, 50-55.	2.9	12
70	Reconstitution of EPA and DHA biosynthesis in Arabidopsis: Iterative metabolic engineering for the synthesis of nâˆ'3 LC-PUFAs in transgenic plants. Metabolic Engineering, 2013, 17, 30-41.	7.0	88
71	Functional inferences of environmental coccolithovirus biodiversity. Virologica Sinica, 2013, 28, 291-302.	3.0	10
72	Abnormal Glycosphingolipid Mannosylation Triggers Salicylic Acidâ€"Mediated Responses in<i>Arabidopsis</i>Â Â. Plant Cell, 2013, 25, 1881-1894.	6.6	92

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73	The <i><scp>A</scp>rabidopsis cer26</i> mutant, like the <i>cer2</i> mutant, is specifically affected in the very long chain fatty acid elongation process. Plant Journal, 2013, 73, 733-746.	5.7	98
74	Identification and Functional Characterization of Genes Encoding Omega-3 Polyunsaturated Fatty Acid Biosynthetic Activities from Unicellular Microalgae. Marine Drugs, 2013, 11, 5116-5129.	4.6	47
75	Draft Genome Sequence of Four Coccolithoviruses: Emiliania huxleyi Virus EhV-88, EhV-201, EhV-207, and EhV-208. Journal of Virology, 2012, 86, 2896-2897.	3.4	25
76	Reconstitution of Plant Alkane Biosynthesis in Yeast Demonstrates That <i>Arabidopsis</i> ECERIFERUM1 and ECERIFERUM3 Are Core Components of a Very-Long-Chain Alkane Synthesis Complex. Plant Cell, 2012, 24, 3106-3118.	6.6	380
77	Draft Genome Sequence of the Coccolithovirus Emiliania huxleyi Virus 202. Journal of Virology, 2012, 86, 2380-2381.	3.4	20
78	Enhancing the accumulation of omega-3 long chain polyunsaturated fatty acids in transgenic Arabidopsis thaliana via iterative metabolic engineering and genetic crossing. Transgenic Research, 2012, 21, 1233-1243.	2.4	42
79	Metabolic engineering of the omega-3 long chain polyunsaturated fatty acid biosynthetic pathway into transgenic plants. Journal of Experimental Botany, 2012, 63, 2397-2410.	4.8	109
80	The role of Î”6â€desaturase acylâ€carrier specificity in the efficient synthesis of longâ€chain polyunsaturated fatty acids in transgenic plants. Plant Biotechnology Journal, 2012, 10, 195-206.	8.3	38
81	Metabolic Engineering of Plantâ€derived (<i>E</i>)â€Î²â€farnesene Synthase Genes for a Novel Type of Aphidâ€resistant Genetically Modified Crop Plants^F. Journal of Integrative Plant Biology, 2012, 54, 282-299.	8.5	46
82	Metabolic Engineering ofSaccharomyces cerevisiaefor Production of Eicosapentaenoic Acid, Using a Novel Î”5-Desaturase fromParamecium tetraurelia. Applied and Environmental Microbiology, 2011, 77, 1854-1861.	3.1	66
83	Transgenic oilseed crops as an alternative to fish oils. Prostaglandins Leukotrienes and Essential Fatty Acids, 2011, 85, 253-260.	2.2	44
84	LC-MS/MS Methods for Absolute Quantification and Identification of Proteins Associated with Chimeric Plant Oil Bodies. Analytical Chemistry, 2011, 83, 9267-9272.	6.5	9
85	Coccolithophores: Functional Biodiversity, Enzymes and Bioprospecting. Marine Drugs, 2011, 9, 586-602.	4.6	7
86	Draft genome sequence of the coccolithovirus EhV-84. Standards in Genomic Sciences, 2011, 5, 1-11.	1.5	20
87	ELOVL2 controls the level of n-6 28:5 and 30:5 fatty acids in testis, a prerequisite for male fertility and sperm maturation in mice. Chemistry and Physics of Lipids, 2011, 164, S2.	3.2	0
88	Identification and functional characterisation of genes encoding the omega-3 polyunsaturated fatty acid biosynthetic pathway from the coccolithophore Emiliania huxleyi. Phytochemistry, 2011, 72, 594-600.	2.9	57
89	New frontiers in oilseed biotechnology: meeting the global demand for vegetable oils for food, feed, biofuel, and industrial applications. Current Opinion in Biotechnology, 2011, 22, 252-259.	6.6	223
90	Very-long-chain fatty acids are required for cell plate formation during cytokinesis in<i>Arabidopsis thaliana</i>. Journal of Cell Science, 2011, 124, 3223-3234.	2.0	67

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91	Targeted Enhancement of Glutamate-to-Î³-Aminobutyrate Conversion in Arabidopsis Seeds Affects Carbon-Nitrogen Balance and Storage Reserves in a Development-Dependent Manner Â Â. Plant Physiology, 2011, 157, 1026-1042.	4.8	111
92	ELOVL2 controls the level of n-6 28:5 and 30:5 fatty acids in testis, a prerequisite for male fertility and sperm maturation in mice. Journal of Lipid Research, 2011, 52, 245-255.	4.2	111
93	Draft Genome Sequence of the Coccolithovirus Emiliania huxleyi Virus 203. Journal of Virology, 2011, 85, 13468-13469.	3.4	15
94	Overexpression of Arabidopsis<i>ECERIFERUM1</i>Promotes Wax Very-Long-Chain Alkane Biosynthesis and Influences Plant Response to Biotic and Abiotic Stresses Â. Plant Physiology, 2011, 156, 29-45.	4.8	414
95	Emerging roles in plant defense forcis-jasmone-induced cytochrome P450 CYP81D11. Plant Signaling and Behavior, 2011, 6, 563-565.	2.4	29
96	The transcriptome of cis-jasmone-induced resistance in Arabidopsis thaliana and its role in indirect defence. Planta, 2010, 232, 1163-1180.	3.2	90
97	Tailoring plant lipid composition: designer oilseeds come of age. Current Opinion in Plant Biology, 2010, 13, 329-336.	7.1	100
98	The sunflower plastidial Ï‰3-fatty acid desaturase (HaFAD7) contains the signalling determinants required for targeting to, and retention in, the endoplasmic reticulum membrane in yeast but requires co-expressed ferredoxin for activity. Phytochemistry, 2010, 71, 1050-1058.	2.9	9
99	As simple as ACB â€" new insights into the role of acylâ€CoAâ€binding proteins in Arabidopsis. New Phytologist, 2010, 186, 781-783.	7.3	9
100	Very-Long-Chain Fatty Acids Are Involved in Polar Auxin Transport and Developmental Patterning in<i>Arabidopsis</i>Â. Plant Cell, 2010, 22, 364-375.	6.6	174
101	An alternative to fish oils: Metabolic engineering of oil-seed crops to produce omega-3 long chain polyunsaturated fatty acids. Progress in Lipid Research, 2010, 49, 108-119.	11.6	213
102	Viral trans-dominant manipulation of algal sphingolipids. Trends in Plant Science, 2010, 15, 651-655.	8.8	18
103	Sphingolipid Signaling in Plants. Plant Cell Monographs, 2010, , 307-321.	0.4	3
104	Misexpression of FATTY ACID ELONGATION1 in the Arabidopsis Epidermis Induces Cell Death and Suggests a Critical Role for Phospholipase A2 in This Process. Plant Cell, 2009, 21, 1252-1272.	6.6	44
105	Functional Characterization of a Higher Plant Sphingolipid Î"4-Desaturase: Defining the Role of Sphingosine and Sphingosine-1-Phosphate in Arabidopsis Â Â. Plant Physiology, 2009, 149, 487-498.	4.8	103
106	Functional Characterization of the Arabidopsis<i>Î²</i>-Ketoacyl-Coenzyme A Reductase Candidates of the Fatty Acid Elongase Â Â. Plant Physiology, 2009, 150, 1174-1191.	4.8	201
107	The synthesis and accumulation of stearidonic acid in transgenic plants: a novel source of â€˜heartâ€healthyâ€™ omegaâ€3 fatty acids. Plant Biotechnology Journal, 2009, 7, 704-716.	8.3	65
108	Natural variation in responsiveness of Arabidopsis thaliana to methyl jasmonate is developmentally regulated. Planta, 2008, 228, 1021-1028.	3.2	13

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109	The very-long-chain hydroxy fatty acyl-CoA dehydratase PASTICCINO2 is essential and limiting for plant development. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14727-14731.	7.1	216
110	<i>cis</i> -Jasmone induces <i>Arabidopsis</i> genes that affect the chemical ecology of multitrophic interactions with aphids and their parasitoids. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4553-4558.	7.1	169
111	Cloning and Characterization of Unusual Fatty Acid Desaturases from Anemone leveillei: Identification of an Acyl-Coenzyme A C20 Î”5-Desaturase Responsible for the Synthesis of Sciadonic Acid. Plant Physiology, 2007, 144, 455-467.	4.8	34
112	Co-transcribed Genes for Long Chain Polyunsaturated Fatty Acid Biosynthesis in the Protozoon Perkinsus marinus Include a Plant-like FAE1 3-Ketoacyl Coenzyme A Synthase. Journal of Biological Chemistry, 2007, 282, 2996-3003.	3.4	33
113	Are GM and conventionally bred cereals really different?. Trends in Food Science and Technology, 2007, 18, 201-209.	15.1	52
114	Stressful â€œmemoriesâ€• of plants: Evidence and possible mechanisms. Plant Science, 2007, 173, 603-608.	3.6	807
115	The Production of Unusual Fatty Acids in Transgenic Plants. Annual Review of Plant Biology, 2007, 58, 295-319.	18.7	228
116	Characterization of Lipid Rafts from Medicago truncatula Root Plasma Membranes: A Proteomic Study Reveals the Presence of a Raft-Associated Redox System. Plant Physiology, 2007, 144, 402-418.	4.8	234
117	Transgenic plants as a source of fish oils: healthy, sustainable and GM. Journal of the Science of Food and Agriculture, 2007, 87, 8-12.	3.5	5
118	Rational metabolic engineering of transgenic plants for biosynthesis of omega-3 polyunsaturates. Current Opinion in Biotechnology, 2007, 18, 142-147.	6.6	86
119	Properties and exploitation of oleosins. Biotechnology Advances, 2007, 25, 203-206.	11.7	69
120	Cloning and molecular characterisation of a Î”8-sphingolipid-desaturase from Nicotiana tabacum closely related to Î”6-acyl-desaturases. Plant Molecular Biology, 2007, 64, 241-250.	3.9	17
121	Developments in aspects of ecological phytochemistry: The role of cis-jasmone in inducible defence systems in plants. Phytochemistry, 2007, 68, 2937-2945.	2.9	38
122	The alternative pathway C20Î”8-desaturase from the non-photosynthetic organismAcanthamoeba castellaniiis an atypical cytochromeb5-fusion desaturase. FEBS Letters, 2006, 580, 1946-1952.	2.8	37
123	The Production of Long-Chain Polyunsaturated Fatty Acids in Transgenic Plants. , 2006, , 118-132.		1
124	Progress towards the production of very long-chain polyunsaturated fatty acid in transgenic plants: plant metabolic engineering comes of age. Physiologia Plantarum, 2006, 126, 398-406.	5.2	24
125	A metabolomic study of substantial equivalence of field-grown genetically modified wheat. Plant Biotechnology Journal, 2006, 4, 381-392.	8.3	252
126	Identification of Primula â€œfront-endâ€• desaturases with distinct nâ˘6 or nâ˘3 substrate preferences. Planta, 2006, 224, 1269-1277.	3.2	29

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127	Molecular analysis of a durum wheat â€˜stay greenâ€™ mutant: Expression pattern of photosynthesis-related genes. Journal of Cereal Science, 2006, 43, 160-168.	3.7	37
128	The production ofn-3 long-chain polyunsaturated fatty acids in transgenic plants. European Journal of Lipid Science and Technology, 2006, 108, 965-972.	1.5	16
129	Members of the Arabidopsis FAE1-like 3-Ketoacyl-CoA Synthase Gene Family Substitute for the Elop Proteins of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2006, 281, 9018-9029.	3.4	119
130	A Bifunctional Î”12,Î”15-Desaturase from Acanthamoeba castellanii Directs the Synthesis of Highly Unusual n-1 Series Unsaturated Fatty Acids. Journal of Biological Chemistry, 2006, 281, 36533-36541.	3.4	71
131	Fatty acid desaturases from the microalga Thalassiosira pseudonana. FEBS Journal, 2005, 272, 3401-3412.	4.7	90
132	Reverse engineering of long-chain polyunsaturated fatty acid biosynthesis into transgenic plants. European Journal of Lipid Science and Technology, 2005, 107, 249-255.	1.5	7
133	Modification of the Low Molecular Weight (LMW) Glutenin Composition of Transgenic Durum Wheat: Effects on Glutenin Polymer Size and Gluten Functionality. Molecular Breeding, 2005, 16, 113-126.	2.1	48
134	Analysis of Detergent-Resistant Membranes in Arabidopsis. Evidence for Plasma Membrane Lipid Rafts. Plant Physiology, 2005, 137, 104-116.	4.8	445
135	The production of very-long-chain PUFA biosynthesis in transgenic plants: towards a sustainable source of fish oils. Proceedings of the Nutrition Society, 2005, 64, 387-393.	1.0	52
136	Functional characterization of the Arabidopsis thaliana orthologue of Tsc13p, the enoyl reductase of the yeast microsomal fatty acid elongating system. Journal of Experimental Botany, 2004, 55, 543-545.	4.8	52
137	A Post-genomic Approach to Understanding Sphingolipid Metabolism in Arabidopsis thaliana. Annals of Botany, 2004, 93, 483-497.	2.9	148
138	Isolation and expression pattern of two putative acylâ€ACP desaturase cDNAs from Bassia scoparia. Journal of Experimental Botany, 2004, 55, 787-789.	4.8	8
139	Genetic manipulation of Î³-linolenic acid (GLA) synthesis in a commercial variety of evening primrose (Oenothera sp.). Plant Biotechnology Journal, 2004, 2, 351-357.	8.3	23
140	Production of very long chain polyunsaturated omega-3 and omega-6 fatty acids in plants. Nature Biotechnology, 2004, 22, 739-745.	17.5	389
141	Progress toward the production of long-chain polyunsaturated fatty acids in transgenic plants. Lipids, 2004, 39, 1067-1075.	1.7	35
142	Eicosapentaenoic acid: biosynthetic routes and the potential for synthesis in transgenic plants. Phytochemistry, 2004, 65, 147-158.	2.9	168
143	Biosynthesis of Very-Long-Chain Polyunsaturated Fatty Acids in Transgenic Oilseeds: Constraints on Their Accumulationwâ ƒž. Plant Cell, 2004, 16, 2734-2748.	6.6	284
144	The production of long chain polyunsaturated fatty acids in transgenic plants by reverse-engineering. Biochimie, 2004, 86, 785-792.	2.6	35

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145	The Production of Long Chain Polyunsaturated Fatty Acids in Transgenic Plants. , 2004, 26, 143-157.		1
146	TaqMan PCR for Detection of Genetically Modified Durum Wheat. Journal of Cereal Science, 2003, 37, 157-163.	3.7	14
147	Functional characterisation of two cytochromeï¿½b5-fusion desaturases from Anemone leveillei: the unexpected identification of a fatty acid ?6-desaturase. Planta, 2003, 217, 983-992.	3.2	22
148	The dihydroceramide desaturase is not essential for cell viability in Schizosaccharomyces pombe. FEBS Letters, 2003, 538, 192-196.	2.8	19
149	Identification of Primula fatty acid Î”6 -desaturases with n -3 substrate preferences 1. FEBS Letters, 2003, 542, 100-104.	2.8	70
150	The role of cytochrome b5 fusion desaturases in the synthesis of polyunsaturated fatty acids. Prostaglandins Leukotrienes and Essential Fatty Acids, 2003, 68, 135-143.	2.2	85
151	A Saccharomyces cerevisiae Gene Required for Heterologous Fatty Acid Elongase Activity Encodes a Microsomal Î²-Keto-reductase. Journal of Biological Chemistry, 2002, 277, 11481-11488.	3.4	84
152	The Saccharomyces cerevisiae YBR159w Gene Encodes the 3-Ketoreductase of the Microsomal Fatty Acid Elongase. Journal of Biological Chemistry, 2002, 277, 35440-35449.	3.4	89
153	Identification of a cDNA encoding a novel C18-Î”9polyunsaturated fatty acid-specific elongating activity from the docosahexaenoic acid (DHA)-producing microalga,Isochrysis galbana1. FEBS Letters, 2002, 510, 159-165.	2.8	116
154	Plumbing the depths of PUFA biosynthesis: a novel polyketide synthase-like pathway from marine organisms. Trends in Plant Science, 2002, 7, 51-54.	8.8	74
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