

Nathalie Giglioli-Guivarc'h

List of Publications by Year in descending order

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82
papers

2,795
citations

159585

30
h-index

206112

48
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82
all docs

82
docs citations

82
times ranked

2783
citing authors

#	ARTICLE	IF	CITATIONS
1	A look inside an alkaloid multisite plant: the <i>Catharanthus</i> logistics. <i>Current Opinion in Plant Biology</i> , 2014, 19, 43-50.	7.1	135
2	Strictosidine activation in Apocynaceae: towards a "nuclear time bomb"?. <i>BMC Plant Biology</i> , 2010, 10, 182.	3.6	129
3	Peroxisomal localisation of the final steps of the mevalonic acid pathway in planta. <i>Planta</i> , 2011, 234, 903-914.	3.2	126
4	Characterization of the plastidial geraniol synthase from Madagascar periwinkle which initiates the monoterpenoid branch of the alkaloid pathway in internal phloem associated parenchyma. <i>Phytochemistry</i> , 2013, 85, 36-43.	2.9	123
5	<i>Catharanthus roseus</i> G-box binding factors 1 and 2 act as repressors of strictosidine synthase gene expression in cell cultures. <i>Plant Molecular Biology</i> , 2001, 45, 477-488.	3.9	121
6	A Pair of Tabersonine 16-Hydroxylases Initiates the Synthesis of Vindoline in an Organ-Dependent Manner in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2013, 163, 1792-1803.	4.8	97
7	Phytochemical genomics of the Madagascar periwinkle: Unravelling the last twists of the alkaloid engine. <i>Phytochemistry</i> , 2015, 113, 9-23.	2.9	92
8	Synthesis of bio-mediated silver nanoparticles from <i>Silybum marianum</i> and their biological and clinical activities. <i>Materials Science and Engineering C</i> , 2020, 112, 110889.	7.3	79
9	Differential Production of Phenylpropanoid Metabolites in Callus Cultures of <i>Ocimum basilicum</i> L. with Distinct <i>In Vitro</i> Antioxidant Activities and <i>In Vivo</i> Protective Effects against UV stress. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 1847-1859.	5.2	78
10	Ranking genome-wide correlation measurements improves microarray and RNA-seq based global and targeted co-expression networks. <i>Scientific Reports</i> , 2018, 8, 10885.	3.3	73
11	Hybrid histidine kinases in pathogenic fungi. <i>Molecular Microbiology</i> , 2015, 95, 914-924.	2.5	68
12	Antifungal Activity of Resveratrol Derivatives against <i>Candida</i> Species. <i>Journal of Natural Products</i> , 2014, 77, 1658-1662.	3.0	67
13	Characterization of a spermidine hydroxycinnamoyltransferase in <i>Malus domestica</i> highlights the evolutionary conservation of trihydroxycinnamoyl spermidines in pollen coat of core Eudicotyledons. <i>Journal of Experimental Botany</i> , 2015, 66, 7271-7285.	4.8	62
14	<i>Candida guilliermondii</i> : biotechnological applications, perspectives for biological control, emerging clinical importance and recent advances in genetics. <i>Current Genetics</i> , 2013, 59, 73-90.	1.7	61
15	Biosynthetic Origin of <i>E</i> -Resveratrol Accumulation in Grape Canes during Postharvest Storage. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1631-1638.	5.2	59
16	Mechanistic evaluation of phytochemicals in breast cancer remedy: current understanding and future perspectives. <i>RSC Advances</i> , 2018, 8, 29714-29744.	3.6	55
17	Characterization of a second secologanin synthase isoform producing both secologanin and secoxyloganin allows enhanced de novo assembly of a <i>Catharanthus roseus</i> transcriptome. <i>BMC Genomics</i> , 2015, 16, 619.	2.8	54
18	The subcellular localization of periwinkle farnesyl diphosphate synthase provides insight into the role of peroxisome in isoprenoid biosynthesis. <i>Journal of Plant Physiology</i> , 2011, 168, 2110-2116.	3.5	46

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19	A <i>BAHD</i> acyltransferase catalyzing 19 <i>O</i> -acetylation of tabersonine derivatives in roots of <i>Catharanthus roseus</i> enables combinatorial synthesis of monoterpene indole alkaloids. <i>Plant Journal</i> , 2018, 94, 469-484.	5.7	46
20	Class II Cytochrome P450 Reductase Governs the Biosynthesis of Alkaloids. <i>Plant Physiology</i> , 2016, 172, 1563-1577.	4.8	44
21	Field-Based Metabolomics of <i>Vitis vinifera</i> L. Stems Provides New Insights for Genotype Discrimination and Polyphenol Metabolism Structuring. <i>Frontiers in Plant Science</i> , 2018, 9, 798.	3.6	41
22	CaaX-prenyltransferases are essential for expression of genes involved in the early stages of monoterpene biosynthetic pathway in <i>Catharanthus roseus</i> cells. <i>Plant Molecular Biology</i> , 2005, 57, 855-870.	3.9	40
23	Mechanical stress rapidly induces E-resveratrol and E-piceatannol biosynthesis in grape canes stored as a freshly-pruned byproduct. <i>Food Chemistry</i> , 2018, 240, 1022-1027.	8.2	40
24	Differential accumulation of silymarin induced by exposure of <i>Silybum marianum</i> L. callus cultures to several spectres of monochromatic lights. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 184, 61-70.	3.8	39
25	Chemogenic silver nanoparticles enhance lignans and neolignans in cell suspension cultures of <i>Linum usitatissimum</i> L. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 136, 589-596.	2.3	37
26	Effects of Biogenic Zinc Oxide Nanoparticles on Growth and Oxidative Stress Response in Flax Seedlings vs. In Vitro Cultures: A Comparative Analysis. <i>Biomolecules</i> , 2020, 10, 918.	4.0	35
27	Characterization and subcellular localization of geranylgeranyl diphosphate synthase from <i>Catharanthus roseus</i> . <i>Molecular Biology Reports</i> , 2012, 39, 3235-3243.	2.3	34
28	Two Tabersonine 6,7-Epoxidases Initiate Lochnericine-Derived Alkaloid Biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2018, 177, 1473-1486.	4.8	34
29	Interactive Effects of Light and Melatonin on Biosynthesis of Silymarin and Anti-Inflammatory Potential in Callus Cultures of <i>Silybum marianum</i> (L.) Gaertn.. <i>Molecules</i> , 2019, 24, 1207.	3.8	33
30	ASG2 is a farnesylated DWD protein that acts as ABA negative regulator in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 185-198.	5.7	32
31	Drug-resistant cassettes for the efficient transformation of <i>Candida guilliermondii</i> wild-type strains. <i>FEMS Yeast Research</i> , 2011, 11, 457-463.	2.3	30
32	Biogenic zinc oxide nanoparticles-enhanced biosynthesis of lignans and neolignans in cell suspension cultures of <i>Linum usitatissimum</i> L. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 1367-1373.	2.8	30
33	Deus ex <i>Candida</i> genetics: overcoming the hurdles for the development of a molecular toolbox in the CTG clade. <i>Microbiology (United Kingdom)</i> , 2012, 158, 585-600.	1.8	29
34	<i>Isodon rugosus</i> (Wall. ex Benth.) Codd In Vitro Cultures: Establishment, Phytochemical Characterization and In Vitro Antioxidant and Anti-Aging Activities. <i>International Journal of Molecular Sciences</i> , 2019, 20, 452.	4.1	28
35	CHASE-Containing Histidine Kinase Receptors in Apple Tree: From a Common Receptor Structure to Divergent Cytokinin Binding Properties and Specific Functions. <i>Frontiers in Plant Science</i> , 2017, 8, 1614.	3.6	27
36	Grape Cane Extracts as Multifunctional Rejuvenating Cosmetic Ingredient: Evaluation of Sirtuin Activity, Tyrosinase Inhibition and Bioavailability Potential. <i>Molecules</i> , 2020, 25, 2203.	3.8	27

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37	Composition and Tissue-Specific Distribution of Stilbenoids in Grape Canes Are Affected by Downy Mildew Pressure in the Vineyard. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8472-8477.	5.2	26
38	Role of protein farnesylation events in the ABA-mediated regulation of the Pinorexinolâ€“Lariciresinol Reductase 1 (LuPLR1) gene expression and lignan biosynthesis in flax (<i>Linum usitatissimum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2013, 72, 96-111.	5.8	25
39	Yeast-extract improved biosynthesis of lignans and neolignans in cell suspension cultures of <i>Linum usitatissimum</i> L.. <i>Plant Cell, Tissue and Organ Culture</i> , 2018, 135, 347-355.	2.3	25
40	Vineyard evaluation of stilbenoidâ€“rich grape cane extracts against downy mildew: a largeâ€“scale study. <i>Pest Management Science</i> , 2019, 75, 1252-1257.	3.4	25
41	Development of a URA5 integrative cassette for gene disruption in the <i>Candida guilliermondii</i> ATCC 6260 strain. <i>Journal of Microbiological Methods</i> , 2011, 84, 355-358.	1.6	24
42	Subcellular evidence for the involvement of peroxisomes in plant isoprenoid biosynthesis. <i>Plant Signaling and Behavior</i> , 2011, 6, 2044-2046.	2.4	24
43	Enhanced bioproduction of anticancer precursor vindoline by yeast cell factories. <i>Microbial Biotechnology</i> , 2021, 14, 2693-2699.	4.2	24
44	Deciphering the Evolution, Cell Biology and Regulation of Monoterpene Indole Alkaloids. <i>Advances in Botanical Research</i> , 2013, 68, 73-109.	1.1	22
45	Proteins prenylated by type I protein geranylgeranyltransferase act positively on the jasmonate signalling pathway triggering the biosynthesis of monoterpene indole alkaloids in <i>Catharanthus roseus</i> . <i>Plant Cell Reports</i> , 2009, 28, 83-93.	5.6	21
46	Efficient gene targeting in a <i>Candida guilliermondii</i> non-homologous end-joining pathway-deficient strain. <i>Biotechnology Letters</i> , 2013, 35, 1035-1043.	2.2	21
47	In vitro cultures of <i>Linum usitatissimum</i> L.: Synergistic effects of mineral nutrients and photoperiod regimes on growth and biosynthesis of lignans and neolignans. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 187, 141-150.	3.8	20
48	Fluorescent protein fusions in <i>Candida guilliermondii</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 1004-1011.	2.1	19
49	A standardized toolkit for genetic engineering of CTG clade yeasts. <i>Journal of Microbiological Methods</i> , 2018, 144, 152-156.	1.6	19
50	Cellular and Subcellular Compartmentation of the 2C-Methyl-D-Erythritol 4-Phosphate Pathway in the Madagascar Periwinkle. <i>Plants</i> , 2020, 9, 462.	3.5	19
51	Alternative splicing creates a pseudo-strictosidine β -glucosidase modulating alkaloid synthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2021, 185, 836-856.	4.8	19
52	Potential antimicrobial, antidiabetic, catalytic, antioxidant and ROS/RNS inhibitory activities of <i>Silybum marianum</i> mediated biosynthesized copper oxide nanoparticles. <i>RSC Advances</i> , 2022, 12, 14069-14083.	3.6	19
53	Molecular cloning and functional characterization of <i>Catharanthus roseus</i> hydroxymethylbutenyl 4-diphosphate synthase gene promoter from the methyl erythritol phosphate pathway. <i>Molecular Biology Reports</i> , 2012, 39, 5433-5447.	2.3	17
54	Characterization of an autonomously replicating sequence in <i>Candida guilliermondii</i> . <i>Microbiological Research</i> , 2013, 168, 580-588.	5.3	16

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55	A TRP5/5-fluoroanthranilic acid counter-selection system for gene disruption in <i>Candida guilliermondii</i> . <i>Current Genetics</i> , 2012, 58, 245-254.	1.7	15
56	Virus-induced gene silencing in <i>Rauwolfia</i> species. <i>Protoplasma</i> , 2017, 254, 1813-1818.	2.1	15
57	Virus-induced gene silencing of the two squalene synthase isoforms of apple tree (<i>Malus domestica</i>) Tj ETQq1 1 0.784314 rgBT 45-60.	3.2	15
58	Subcellular localization of the histidine kinase receptors Sln1p, Nik1p and Chk1p in the yeast CTG clade species <i>Candida guilliermondii</i> . <i>Fungal Genetics and Biology</i> , 2014, 65, 25-36.	2.1	14
59	ZCT1 and ZCT2 transcription factors repress the activity of a gene promoter from the methyl erythritol phosphate pathway in Madagascar periwinkle cells. <i>Journal of Plant Physiology</i> , 2014, 171, 1510-1513.	3.5	14
60	Triple subcellular targeting of isopentenyl diphosphate isomerases encoded by a single gene. <i>Plant Signaling and Behavior</i> , 2012, 7, 1495-1497.	2.4	13
61	Transformation of <i>Candida guilliermondii</i> wild-type strains using the <i>Staphylococcus aureus</i> MRSA 252b gene as a phleomycin-resistant marker. <i>FEMS Yeast Research</i> , 2013, 13, 354-358.	2.3	13
62	Optimization of the URA-blaster disruption system in <i>Candida guilliermondii</i> : Efficient gene targeting using the URA3 marker. <i>Journal of Microbiological Methods</i> , 2012, 91, 117-120.	1.6	12
63	Remarkable Evolutionary Conservation of Antiobesity ADIPOSE/WBTC1 Homologs in Animals and Plants. <i>Genetics</i> , 2017, 207, 153-162.	2.9	12
64	Identifying Genes Involved in Alkaloid Biosynthesis in <i>Vinca minor</i> through Transcriptomics and Gene Co-Expression Analysis. <i>Biomolecules</i> , 2020, 10, 1595.	4.0	12
65	Comparative evaluation of chemically and green synthesized zinc oxide nanoparticles: their in vitro antioxidant, antimicrobial, cytotoxic and anticancer potential towards HepG2 cell line. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 243-261.	9.1	11
66	A new series of vectors for constitutive, inducible or repressible gene expression in <i>Candida guilliermondii</i> . <i>Journal of Biotechnology</i> , 2014, 180, 37-42.	3.8	10
67	Genome-wide identification and biochemical characterization of the UGT88F subfamily in <i>Malus x domestica</i> Borkh. <i>Phytochemistry</i> , 2019, 157, 135-144.	2.9	10
68	UPLC-HRMS Analysis Revealed the Differential Accumulation of Antioxidant and Anti-Aging Lignans and Neolignans in In Vitro Cultures of <i>Linum usitatissimum</i> L. <i>Frontiers in Plant Science</i> , 2020, 11, 508658.	3.6	10
69	Optimization of Tabersonine Methoxylation to Increase Vindoline Precursor Synthesis in Yeast Cell Factories. <i>Molecules</i> , 2021, 26, 3596.	3.8	10
70	Group X hybrid histidine kinase Chk1 is dispensable for stress adaptation, host-pathogen interactions and virulence in the opportunistic yeast <i>Candida guilliermondii</i> . <i>Research in Microbiology</i> , 2017, 168, 644-654.	2.1	8
71	A synthetic construct for genetic engineering of the emerging pathogenic yeast <i>Candida auris</i> . <i>Plasmid</i> , 2018, 95, 7-10.	1.4	8
72	Cycloheximide as a tool to investigate protein import in peroxisomes: A case study of the subcellular localization of isoprenoid biosynthetic enzymes. <i>Journal of Plant Physiology</i> , 2012, 169, 825-829.	3.5	7

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73	Disrupting the methionine biosynthetic pathway in <i>Candida guilliermondii</i> : characterization of the <i>MET2</i> gene as counterselectable marker. <i>Yeast</i> , 2014, 31, 243-251.	1.7	7
74	Setting-up a fast and reliable cytokinin biosensor based on a plant histidine kinase receptor expressed in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2019, 289, 103-111.	3.8	7
75	Exploiting Spermidine <i>N</i> -Hydroxycinnamoyltransferase Diversity and Substrate Promiscuity to Produce Various Trihydroxycinnamoyl Spermidines and Analogues in Engineered Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 286-296.	3.8	6
76	Scarlet Flax <i>Linum grandiflorum</i> (L.) In Vitro Cultures as a New Source of Antioxidant and Anti-Inflammatory Lignans. <i>Molecules</i> , 2021, 26, 4511.	3.8	6
77	Identifying Major Drivers of Antioxidant Activities in Complex Polyphenol Mixtures from Grape Canes. <i>Molecules</i> , 2022, 27, 4029.	3.8	6
78	An additional <i>Meyerozyma guilliermondii</i> IMH3 gene confers mycophenolic acid resistance in fungal CTG clade species. <i>FEMS Yeast Research</i> , 2016, 16, fow078.	2.3	5
79	Protein Farnesylation Takes Part in Arabidopsis Seed Development. <i>Frontiers in Plant Science</i> , 2021, 12, 620325.	3.6	5
80	Vacuole-Targeted Proteins: Ins and Outs of Subcellular Localization Studies. <i>Methods in Molecular Biology</i> , 2018, 1789, 33-54.	0.9	4
81	Isolation of a cDNA encoding the alpha-subunit of CAAX-prenyltransferases from <i>Catharanthus roseus</i> and the expression of the active recombinant protein farnesyltransferase. <i>Cellular and Molecular Biology Letters</i> , 2005, 10, 649-57.	7.0	3
82	A Biolistic-Mediated Virus-Induced Gene Silencing in Apocynaceae to Map Biosynthetic Pathways of Alkaloids. <i>Methods in Molecular Biology</i> , 2020, 2172, 93-110.	0.9	1