

Benoit St-Pierre

List of Publications by Year in descending order

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66
papers

4,144
citations

147801

31
h-index

114465

63
g-index

67
all docs

67
docs citations

67
times ranked

2909
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Enhanced bioproduction of anticancer precursor vindoline by yeast cell factories. <i>Microbial Biotechnology</i> , 2021, 14, 2693-2699.	4.2	24
3	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
4	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
5	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
6	ALSV-Based Virus-Induced Gene Silencing in Apple Tree (<i>Malus domestica</i> L.). <i>Methods in Molecular Biology</i> , 2020, 2172, 183-197.	0.9	2
7	Genome-wide identification and biochemical characterization of the UGT88F subfamily in <i>Malus domestica</i> Borkh. <i>Phytochemistry</i> , 2019, 157, 135-144.	2.9	10
8	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
9	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
10	Vacuole-Targeted Proteins: Ins and Outs of Subcellular Localization Studies. <i>Methods in Molecular Biology</i> , 2018, 1789, 33-54.	0.9	4
11	Virus-induced gene silencing in <i>Rauwolfia</i> species. <i>Protoplasma</i> , 2017, 254, 1813-1818.	2.1	15
12	Virus-induced gene silencing of the two squalene synthase isoforms of apple tree (<i>Malus domestica</i>) Tj ETQq0 0 0 rgBT /Overlock 145-60.	3.2	15
13	Folivory elicits a strong defense reaction in <i>Catharanthus roseus</i> : metabolomic and transcriptomic analyses reveal distinct local and systemic responses. <i>Scientific Reports</i> , 2017, 7, 40453.	3.3	39
14	Class II Cytochrome P450 Reductase Governs the Biosynthesis of Alkaloids. <i>Plant Physiology</i> , 2016, 172, 1563-1577.	4.8	44
15	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
16	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
17	Phytochemical genomics of the Madagascar periwinkle: Unravelling the last twists of the alkaloid engine. <i>Phytochemistry</i> , 2015, 113, 9-23.	2.9	92
18	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

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19	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
20	Identification of a human ABCC10 orthologue in <i>Catharanthus roseus</i> reveals a U12-type intron determinant for the N-terminal domain feature. <i>Journal of Genetics</i> , 2014, 93, 21-33.	0.7	1
21	Expression pattern of AtABCC13/MRP11 reveals developmental, hormonal, and nutritional regulations. <i>Biologia Plantarum</i> , 2014, 58, 231-240.	1.9	9
22	Deciphering the Evolution, Cell Biology and Regulation of Monoterpene Indole Alkaloids. <i>Advances in Botanical Research</i> , 2013, 68, 73-109.	1.1	22
23	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
24	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
25	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
26	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
27	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
28	A single gene encodes isopentenyl diphosphate isomerase isoforms targeted to plastids, mitochondria and peroxisomes in <i>Catharanthus roseus</i> . <i>Plant Molecular Biology</i> , 2012, 79, 443-459.	3.9	60
29	Spatial organization of the vindoline biosynthetic pathway in <i>Catharanthus roseus</i> . <i>Journal of Plant Physiology</i> , 2011, 168, 549-557.	3.5	76
30	The subcellular organization of strictosidine biosynthesis in <i>Catharanthus roseus</i> epidermis highlights several trans-chloroplast translocations of intermediate metabolites. <i>FEBS Journal</i> , 2011, 278, 749-763.	4.7	58
31	Functional analysis of the DAT gene promoter using transient <i>Catharanthus roseus</i> and stable <i>Nicotiana tabacum</i> transformation systems. <i>Plant Cell Reports</i> , 2011, 30, 1173-1182.	5.6	27
32	Subcellular evidence for the involvement of peroxisomes in plant isoprenoid biosynthesis. <i>Plant Signaling and Behavior</i> , 2011, 6, 2044-2046.	2.4	24
33	Strictosidine activation in Apocynaceae: towards a "nuclear time bomb"? <i>BMC Plant Biology</i> , 2010, 10, 182.	3.6	129
34	Biosynthesis and Regulation of Alkaloids. , 2010, , 139-160.		22
35	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
36	Optimization of the transient transformation of <i>Catharanthus roseus</i> cells by particle bombardment and its application to the subcellular localization of hydroxymethylbutenyl 4-diphosphate synthase and geraniol 10-hydroxylase. <i>Plant Cell Reports</i> , 2009, 28, 1215-1234.	5.6	105

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37	Cellular and sub-cellular organisation of the monoterpenoid indole alkaloid pathway in <i>Catharanthus roseus</i> . <i>Phytochemistry Reviews</i> , 2007, 6, 363-381.	6.5	69
38	Spatial distribution and hormonal regulation of gene products from methyl erythritol phosphate and monoterpene-secoiridoid pathways in <i>Catharanthus roseus</i> . <i>Plant Molecular Biology</i> , 2007, 65, 13-30.	3.9	103
39	Epidermis is a pivotal site of at least four secondary metabolic pathways in <i>Catharanthus roseus</i> aerial organs. <i>Planta</i> , 2006, 223, 1191-1200.	3.2	68
40	Synthesis and trafficking of alkaloid biosynthetic enzymes. <i>Current Opinion in Plant Biology</i> , 2005, 8, 657-666.	7.1	88
41	CaaX-prenyltransferases are essential for expression of genes involved in the early stages of monoterpenoid biosynthetic pathway in <i>Catharanthus roseus</i> cells. <i>Plant Molecular Biology</i> , 2005, 57, 855-870.	3.9	40
42	Purification, molecular cloning, and cell-specific gene expression of the alkaloid-accumulation associated protein CrPS in <i>Catharanthus roseus</i> . <i>Journal of Experimental Botany</i> , 2005, 56, 1221-1228.	4.8	20
43	Characterisation of CaaX-prenyltransferases in <i>Catharanthus roseus</i> : relationships with the expression of genes involved in the early stages of monoterpenoid biosynthetic pathway. <i>Plant Science</i> , 2005, 168, 1097-1107.	3.6	27
44	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
45	Co-expression of three MEP pathway genes and geraniol 10-hydroxylase in internal phloem parenchyma of <i>Catharanthus roseus</i> implicates multicellular translocation of intermediates during the biosynthesis of monoterpene indole alkaloids and isoprenoid-derived primary metabolites. <i>Plant Journal</i> , 2004, 38, 131-141.	5.7	195
46	High expression during neurogenesis but not mammogenesis of a murine homologue of the Deleted in Breast Cancer2/Rhobtb2 tumor suppressor. <i>Gene Expression Patterns</i> , 2004, 5, 245-251.	0.8	10
47	Dynamic regulation of the Stra13/Sharp/Dec bHLH repressors in mammary epithelium. <i>Developmental Dynamics</i> , 2004, 230, 124-130.	1.8	8
48	Can <i>Arabidopsis</i> make complex alkaloids?. <i>Trends in Plant Science</i> , 2004, 9, 116-122.	8.8	101
49	Jasmonate-induced epoxidation of tabersonine by a cytochrome P-450 in hairy root cultures of <i>Catharanthus roseus</i> . <i>Phytochemistry</i> , 2003, 64, 401-409.	2.9	58
50	CrMYC1, a <i>Catharanthus roseus</i> elicitor- and jasmonate-responsive bHLH transcription factor that binds the G-box element of the strictosidine synthase gene promoter. <i>Journal of Experimental Botany</i> , 2003, 54, 2587-2588.	4.8	97
51	Stra13 Homodimers Repress Transcription through Class B E-box Elements. <i>Journal of Biological Chemistry</i> , 2002, 277, 46544-46551.	3.4	89
52	Molecular and Biochemical Analysis of a Madagascar Periwinkle Root-Specific Minovincinine-19-Hydroxy-O-Acetyltransferase. <i>Plant Physiology</i> , 2001, 125, 189-198.	4.8	91
53	Light activation of vindoline biosynthesis does not require cytomorphogenesis in <i>Catharanthus roseus</i> seedlings. <i>Phytochemistry</i> , 2000, 55, 531-536.	2.9	32
54	Evolution of Acyltransferase Genes: Origin and Diversification of the BAHD Superfamily of Acyltransferases Involved in Secondary Metabolism. <i>Recent Advances in Phytochemistry</i> , 2000, 34, 285-315.	0.5	175

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55	The cell and developmental biology of alkaloid biosynthesis. Trends in Plant Science, 2000, 5, 168-173.	8.8	317
56	Indole alkaloid biosynthesis in <i>Catharanthus roseus</i> : new enzyme activities and identification of cytochrome P450 CYP72A1 as secologanin synthase. Plant Journal, 2000, 24, 797-804.	5.7	190
57	Indole alkaloid biosynthesis in <i>Catharanthus roseus</i> : new enzyme activities and identification of cytochrome P450 CYP72A1 as secologanin synthase. Plant Journal, 2000, 24, 797-804.	5.7	252
58	Multicellular Compartmentation of <i>Catharanthus roseus</i> Alkaloid Biosynthesis Predicts Intercellular Translocation of a Pathway Intermediate. Plant Cell, 1999, 11, 887-900.	6.6	306
59	The terminal O-acetyltransferase involved in vindoline biosynthesis defines a new class of proteins responsible for coenzyme A-dependent acyl transfer. Plant Journal, 1998, 14, 703-713.	5.7	242
60	Indole Alkaloid Biosynthesis in <i>Catharanthus roseus</i> : The Establishment of a Model System. , 1998, , 171-187.		2
61	The starch phosphorylase gene is subjected to different modes of regulation in starch-containing tissues of potato. Plant Molecular Biology, 1996, 30, 1087-1098.	3.9	9
62	Induction of the plastidic starch-phosphorylase gene in potato storage sink tissue. Planta, 1995, 195, 339.	3.2	24
63	5' deletion analysis of the potato starch phosphorylase gene: an upstream sequence defines distal regulatory elements and a proximal organ-dependent promoter. Plant Science, 1995, 110, 193-203.	3.6	4
64	Occurrence of a copia-like transposable element in one of the introns of the potato starch phosphorylase gene. Molecular Genetics and Genomics, 1990, 224, 33-39.	2.4	53
65	Growth of nopaline-utilizing <i>Agrobacterium</i> and <i>Pseudomonas</i> in extracts of crown-gall tumors. Canadian Journal of Microbiology, 1988, 34, 793-801.	1.7	7
66	The effects of salicylates on phenomena related to crown gall. Canadian Journal of Botany, 1984, 62, 729-734.	1.1	9