

# Reuben J. Peters

## List of Publications by Citations

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153  
papers

9,287  
citations

51  
h-index

92  
g-index

169  
ext. papers

11,363  
ext. citations

7.9  
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6.27  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 153 | The Selaginella genome identifies genetic changes associated with the evolution of vascular plants. <i>Science</i> , <b>2011</b> , 332, 960-3   | 33.3 | 622       |
| 152 | Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. <i>Cell</i> , <b>2017</b> , 171, 287-304.e15   | 56.2 | 538       |
| 151 | Two rings in them all: the labdane-related diterpenoids. <i>Natural Product Reports</i> , <b>2010</b> , 27, 1521-30   | 15.1 | 281       |
| 150 | CYP76AH1 catalyzes turnover of miltiradiene in tanshinones biosynthesis and enables heterologous production of ferruginol in yeasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12108-13 | 11.5 | 238       |
| 149 | Terpenoid synthase structures: a so far incomplete view of complex catalysis. <i>Natural Product Reports</i> , <b>2012</b> , 29, 1153-75  | 15.1 | 236       |
| 148 | Full-length transcriptome sequences and splice variants obtained by a combination of sequencing platforms applied to different root tissues of <i>Salvia miltiorrhiza</i> and tanshinone biosynthesis. <i>Plant Journal</i> , <b>2015</b> , 82, 951-961   | 6.9  | 233       |
| 147 | A functional genomics approach to tanshinone biosynthesis provides stereochemical insights. <i>Organic Letters</i> , <b>2009</b> , 11, 5170-3   | 6.2  | 191       |
| 146 | Investigation of terpene diversification across multiple sequenced plant genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E81-8   | 11.5 | 177       |
| 145 | Analysis of the Genome Sequence of the Medicinal Plant <i>Salvia miltiorrhiza</i> . <i>Molecular Plant</i> , <b>2016</b> , 9, 949-52  | 14.4 | 173       |
| 144 | Identification of syn-pimara-7,15-diene synthase reveals functional clustering of terpene synthases involved in rice phytoalexin/allelochemical biosynthesis. <i>Plant Physiology</i> , <b>2004</b> , 135, 2098-105                                       | 6.6  | 172       |
| 143 | To gibberellins and beyond! Surveying the evolution of (di)terpenoid metabolism. <i>Annual Review of Plant Biology</i> , <b>2014</b> , 65, 259-86   | 30.7 | 168       |
| 142 | CYP76M7 is an ent-cassadiene C11 $\alpha$ -hydroxylase defining a second multifunctional diterpenoid biosynthetic gene cluster in rice. <i>Plant Cell</i> , <b>2009</b> , 21, 3315-25   | 11.6 | 167       |
| 141 | Uncovering the complex metabolic network underlying diterpenoid phytoalexin biosynthesis in rice and other cereal crop plants. <i>Phytochemistry</i> , <b>2006</b> , 67, 2307-17  | 4    | 156       |
| 140 | Biosynthesis, elicitation and roles of monocot terpenoid phytoalexins. <i>Plant Journal</i> , <b>2014</b> , 79, 659-78  | 6.9  | 151       |
| 139 | Increasing diterpene yield with a modular metabolic engineering system in <i>E. coli</i> : comparison of MEV and MEP isoprenoid precursor pathway engineering. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 85, 1893-906                 | 5.7  | 151       |
| 138 | A surveillance system regulates selective entry of RNA into the shoot apex. <i>Plant Cell</i> , <b>2002</b> , 14, 1497-508  | 11.6 | 146       |
| 137 | Rice contains two disparate ent-copalyl diphosphate synthases with distinct metabolic functions. <i>Plant Physiology</i> , <b>2004</b> , 136, 4228-36   | 6.6  | 137       |

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|-----|---|------|-----|
| 136 | Combining metabolomics and transcriptomics to characterize tanshinone biosynthesis in <i>Salvia miltiorrhiza</i> . <i>BMC Genomics</i> , <b>2014</b> , 15, 73   | 4.5  | 131 |
| 135 | Gibberellin biosynthesis in bacteria: separate ent-copalyl diphosphate and ent-kaurene synthases in <i>Bradyrhizobium japonicum</i> . <i>FEBS Letters</i> , <b>2009</b> , 583, 475-80                                 | 3.8  | 128 |
| 134 | Monoterpene biosynthesis pathway construction in <i>Escherichia coli</i> . <i>Phytochemistry</i> , <b>2003</b> , 64, 425-33   | 4    | 128 |
| 133 | Structure and mechanism of the diterpene cyclase ent-copalyl diphosphate synthase. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 431-3  | 11.7 | 125 |
| 132 | Following evolution lead to a single residue switch for diterpene synthase product outcome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 7397-401      | 11.5 | 125 |
| 131 | A modular approach for facile biosynthesis of labdane-related diterpenes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6684-5   | 16.4 | 125 |
| 130 | Functional identification of rice syn-copalyl diphosphate synthase and its role in initiating biosynthesis of diterpenoid phytoalexin/allelopathic natural products. <i>Plant Journal</i> , <b>2004</b> , 39, 309-18  | 6.9  | 120 |
| 129 | Genetic evidence for natural product-mediated plant-plant allelopathy in rice ( <i>Oryza sativa</i> ). <i>New Phytologist</i> , <b>2012</b> , 193, 570-575  | 9.8  | 117 |
| 128 | Activation of a retroviral membrane fusion protein: soluble receptor-induced liposome binding of the ALSV envelope glycoprotein. <i>Journal of Cell Biology</i> , <b>1997</b> , 139, 1455-64                          | 7.3  | 112 |
| 127 | Cytochrome P450 promiscuity leads to a bifurcating biosynthetic pathway for tanshinones. <i>New Phytologist</i> , <b>2016</b> , 210, 525-34   | 9.8  | 107 |
| 126 | Abietadiene synthase from grand fir ( <i>Abies grandis</i> ): characterization and mechanism of action of the "pseudomature" recombinant enzyme. <i>Biochemistry</i> , <b>2000</b> , 39, 15592-602                    | 3.2  | 106 |
| 125 | Functional characterization of the rice kaurene synthase-like gene family. <i>Phytochemistry</i> , <b>2007</b> , 68, 312-26   | 16.4 | 104 |
| 124 | Bifunctional abietadiene synthase: free diffusive transfer of the (+)-copalyl diphosphate intermediate between two distinct active sites. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8974-8 | 16.4 | 101 |
| 123 | The maize An2 gene is induced by <i>Fusarium</i> attack and encodes an ent-copalyl diphosphate synthase. <i>Plant Molecular Biology</i> , <b>2005</b> , 59, 881-94  | 4.6  | 100 |
| 122 | Diterpene cyclases and the nature of the isoprene fold. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 2417-32   | 4.2  | 93  |
| 121 | Characterization of CYP76M5-8 indicates metabolic plasticity within a plant biosynthetic gene cluster. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 6159-68  | 5.4  | 89  |
| 120 | CYP701A8: a rice ent-kaurene oxidase paralog diverted to more specialized diterpenoid metabolism. <i>Plant Physiology</i> , <b>2012</b> , 158, 1418-25  | 6.6  | 86  |
| 119 | Functional Divergence of Diterpene Synthases in the Medicinal Plant <i>Salvia miltiorrhiza</i> . <i>Plant Physiology</i> , <b>2015</b> , 169, 1607-18   | 6.6  | 84  |

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|-----|--|------|----|
| 118 | The role of momilactones in rice allelopathy. <i>Journal of Chemical Ecology</i> , <b>2013</b> , 39, 175-85  | 2.7  | 83 |
| 117 | CYP99A3: functional identification of a diterpene oxidase from the momilactone biosynthetic gene cluster in rice. <i>Plant Journal</i> , <b>2011</b> , 65, 87-95   | 6.9  | 83 |
| 116 | 16-Aza-ent-beyerane and 16-Aza-ent-trachylobane: potent mechanism-based inhibitors of recombinant ent-kaurene synthase from <i>Arabidopsis thaliana</i> . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12453-60          | 16.4 | 77 |
| 115 | Effect of isotopically sensitive branching on product distribution for pentalenene synthase: support for a mechanism predicted by quantum chemistry. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11369-71               | 16.4 | 75 |
| 114 | Characterization of the kaurene oxidase CYP701A3, a multifunctional cytochrome P450 from gibberellin biosynthesis. <i>Biochemical Journal</i> , <b>2010</b> , 431, 337-44  | 3.8  | 74 |
| 113 | Insights into diterpene cyclization from structure of bifunctional abietadiene synthase from <i>Abies grandis</i> . <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 6840-50  | 5.4  | 72 |
| 112 | Probing the role of the DXDD motif in Class II diterpene cyclases. <i>ChemBioChem</i> , <b>2007</b> , 8, 869-74  | 3.8  | 71 |
| 111 | Characterization of CYP76AH4 clarifies phenolic diterpenoid biosynthesis in the Lamiaceae. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 7650-2  | 3.9  | 68 |
| 110 | Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 69-74   | 11.7 | 68 |
| 109 | A single residue switch converts abietadiene synthase into a pimaradiene specific cyclase. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15736-7  | 16.4 | 68 |
| 108 | The application of synthetic biology to elucidation of plant mono-, sesqui-, and diterpenoid metabolism. <i>Molecular Plant</i> , <b>2015</b> , 8, 6-16  | 14.4 | 63 |
| 107 | Parsing a multifunctional biosynthetic gene cluster from rice: Biochemical characterization of CYP71Z6 & 7. <i>FEBS Letters</i> , <b>2011</b> , 585, 3446-51   | 3.8  | 59 |
| 106 | Increasing complexity of a diterpene synthase reaction with a single residue switch. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5400-1   | 16.4 | 59 |
| 105 | Domain loss has independently occurred multiple times in plant terpene synthase evolution. <i>Plant Journal</i> , <b>2011</b> , 68, 1051-60  | 6.9  | 58 |
| 104 | Abietadiene synthase catalysis: conserved residues involved in protonation-initiated cyclization of geranylgeranyl diphosphate to (+)-copalyl diphosphate. <i>Biochemistry</i> , <b>2002</b> , 41, 1836-42                                       | 3.2  | 57 |
| 103 | Synergistic substrate inhibition of ent-copalyl diphosphate synthase: a potential feed-forward inhibition mechanism limiting gibberellin metabolism. <i>Plant Physiology</i> , <b>2007</b> , 144, 445-54   | 6.6  | 54 |
| 102 | Bifunctional abietadiene synthase: mutual structural dependence of the active sites for protonation-initiated and ionization-initiated cyclizations. <i>Biochemistry</i> , <b>2003</b> , 42, 2700-7  | 3.2  | 50 |
| 101 | Abietadiene synthase catalysis: mutational analysis of a prenyl diphosphate ionization-initiated cyclization and rearrangement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 580-4 | 11.5 | 50 |

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|-----|--|------|----|
| 100 | Pro region C-terminus:protease active site interactions are critical in catalyzing the folding of alpha-lytic protease. <i>Biochemistry</i> , <b>1998</b> , 37, 12058-67   | 3.2  | 50 |
| 99  | Functional characterization of wheat copalyl diphosphate synthases sheds light on the early evolution of labdane-related diterpenoid metabolism in the cereals. <i>Phytochemistry</i> , <b>2012</b> , 84, 40-6             | 4    | 49 |
| 98  | Edaxadiene: a new bioactive diterpene from <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17526-7  | 16.4 | 49 |
| 97  | Microbial-type terpene synthase genes occur widely in nonseed land plants, but not in seed plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12328-12333 | 11.5 | 48 |
| 96  | A Tandem Array of ent-Kaurene Synthases in Maize with Roles in Gibberellin and More Specialized Metabolism. <i>Plant Physiology</i> , <b>2016</b> , 170, 742-51  | 6.6  | 46 |
| 95  | Investigation of the Chemical Interface in the Soybean-Aphid and Rice-Bacteria Interactions Using MALDI-Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5294-301                                | 7.8  | 46 |
| 94  | Novel product chemistry from mechanistic analysis of ent-copalyl diphosphate synthases from plant hormone biosynthesis. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7198-202                      | 16.4 | 45 |
| 93  | Functional characterization of wheat ent-kaurene(-like) synthases indicates continuing evolution of labdane-related diterpenoid metabolism in the cereals. <i>Phytochemistry</i> , <b>2012</b> , 84, 47-55                 | 4    | 45 |
| 92  | Identification and characterization of the viral interaction determinant of the subgroup A avian leukosis virus receptor. <i>Journal of Virology</i> , <b>1995</b> , 69, 4261-6  | 6.6  | 45 |
| 91  | Mechanism of abietadiene synthase catalysis: stereochemistry and stabilization of the cryptic pimarenyl carbocation intermediates. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 6998-7006          | 16.4 | 44 |
| 90  | Genome of <i>Tripterygium wilfordii</i> and identification of cytochrome P450 involved in triptolide biosynthesis. <i>Nature Communications</i> , <b>2020</b> , 11, 971  | 17.4 | 43 |
| 89  | Electrostatic effects on (di)terpene synthase product outcome. <i>Chemical Communications</i> , <b>2011</b> , 47, 4074-80  | 4.8  | 42 |
| 88  | A single residue change leads to a hydroxylated product from the class II diterpene cyclization catalyzed by abietadiene synthase. <i>Organic Letters</i> , <b>2012</b> , 14, 5828-31                                      | 6.2  | 41 |
| 87  | A novel labda-7,13e-dien-15-ol-producing bifunctional diterpene synthase from <i>Selaginella moellendorffii</i> . <i>ChemBioChem</i> , <b>2011</b> , 12, 1984-7  | 3.8  | 41 |
| 86  | 1.55Å-resolution structure of ent-copalyl diphosphate synthase and exploration of general acid function by site-directed mutagenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 184-90 | 4    | 40 |
| 85  | Evident and latent plasticity across the rice diterpene synthase family with potential implications for the evolution of diterpenoid metabolism in the cereals. <i>Biochemical Journal</i> , <b>2011</b> , 435, 589-95     | 3.8  | 40 |
| 84  | Stereochemistry of the cyclization-rearrangement of (+)-copalyl diphosphate to (-)-abietadiene catalyzed by recombinant abietadiene synthase from <i>Abies grandis</i> . <i>Organic Letters</i> , <b>2000</b> , 2, 573-6   | 6.2  | 40 |
| 83  | Extreme promiscuity of a bacterial and a plant diterpene synthase enables combinatorial biosynthesis. <i>Metabolic Engineering</i> , <b>2016</b> , 37, 24-34   | 9.7  | 40 |

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| 82 | Probing the promiscuity of ent-kaurene oxidases via combinatorial biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2526-31                            | 11.5 | 39 |
| 81 | Alternative termination chemistries utilized by monoterpene cyclases: chimeric analysis of bornyl diphosphate, 1,8-cineole, and sabinene synthases. <i>Archives of Biochemistry and Biophysics</i> , <b>2003</b> , 417, 203-11 | 4.1  | 38 |
| 80 | Blocking Deprotonation with Retention of Aromaticity in a Plant ent-Copalyl Diphosphate Synthase Leads to Product Rearrangement. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 634-8                    | 16.4 | 38 |
| 79 | Functional conservation of the capacity for ent-kaurene biosynthesis and an associated operon in certain rhizobia. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 100-6   | 3.5  | 37 |
| 78 | An unexpected diterpene cyclase from rice: functional identification of a stemodene synthase. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 448, 133-40   | 4.1  | 37 |
| 77 | The genome of the medicinal plant <i>Andrographis paniculata</i> provides insight into the biosynthesis of the bioactive diterpenoid neoandrographolide. <i>Plant Journal</i> , <b>2019</b> , 97, 841-857                      | 6.9  | 37 |
| 76 | Identification and functional characterization of diterpene synthases for triptolide biosynthesis from <i>Tripterygium wilfordii</i> . <i>Plant Journal</i> , <b>2018</b> , 93, 50-65  | 6.9  | 36 |
| 75 | Picking sides: distinct roles for CYP76M6 and CYP76M8 in rice oryzalexin biosynthesis. <i>Biochemical Journal</i> , <b>2013</b> , 454, 209-16  | 3.8  | 36 |
| 74 | Molecular Diversity of Terpene Synthases in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , <b>2016</b> , 28, 2632-2650   | 11.6 | 36 |
| 73 | Investigating the conservation pattern of a putative second terpene synthase divalent metal binding motif in plants. <i>Phytochemistry</i> , <b>2009</b> , 70, 366-9   | 4    | 35 |
| 72 | Characterization and inhibition of a class II diterpene cyclase from <i>Mycobacterium tuberculosis</i> : implications for tuberculosis. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 23574-9                    | 5.4  | 34 |
| 71 | Characterization of CYP71Z18 indicates a role in maize zealexin biosynthesis. <i>Phytochemistry</i> , <b>2016</b> , 121, 4-10  | 4    | 33 |
| 70 | Terpenoid Secondary Metabolites in Bryophytes: Chemical Diversity, Biosynthesis and Biological Functions. <i>Critical Reviews in Plant Sciences</i> , <b>2018</b> , 37, 210-231  | 5.6  | 33 |
| 69 | Biosynthesis of lycosantalol, a cis-prenyl derived diterpenoid. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16951-3   | 16.4 | 32 |
| 68 | Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. <i>Plant Cell</i> , <b>2018</b> , 30, 1119-1131   | 11.6 | 30 |
| 67 | Biosynthesis of the diterpenoid lycosantalol via nerylneryl diphosphate in <i>Solanum lycopersicum</i> . <i>PLoS ONE</i> , <b>2015</b> , 10, e0119302  | 3.7  | 29 |
| 66 | alpha-lytic protease precursor: characterization of a structured folding intermediate. <i>Biochemistry</i> , <b>1999</b> , 38, 4728-35   | 3.2  | 29 |
| 65 | Optimization of recombinant expression enables discovery of novel cytochrome P450 activity in rice diterpenoid biosynthesis. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 7549-58                         | 5.7  | 28 |

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|----|---|------|----|
| 64 | Synthesis of (+/-)-nosyberkol (isotuberculosinol, revised structure of edaxadiene) and (+/-)-tuberculosinol. <i>Organic Letters</i> , <b>2010</b> , 12, 2626-9  | 6.2  | 28 |
| 63 | CYP72A enzymes catalyse 13-hydrolyzation of gibberellins. <i>Nature Plants</i> , <b>2019</b> , 5, 1057-1065   | 11.5 | 28 |
| 62 | A single residue switch for Mg(2+)-dependent inhibition characterizes plant class II diterpene cyclases from primary and secondary metabolism. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 20558-63                       | 5.4  | 27 |
| 61 | The solution structure of the viral binding domain of Tva, the cellular receptor for subgroup A avian leukosis and sarcoma virus. <i>FEBS Letters</i> , <b>2001</b> , 509, 161-8  | 3.8  | 26 |
| 60 | Efficient heterocyclisation by (di)terpene synthases. <i>Chemical Communications</i> , <b>2015</b> , 51, 13485-7  | 5.8  | 24 |
| 59 | The honeysuckle genome provides insight into the molecular mechanism of carotenoid metabolism underlying dynamic flower coloration. <i>New Phytologist</i> , <b>2020</b> , 227, 930-943   | 9.8  | 24 |
| 58 | Product Rearrangement from Altering a Single Residue in the Rice syn-Copalyl Diphosphate Synthase. <i>Organic Letters</i> , <b>2016</b> , 18, 1060-3  | 6.2  | 24 |
| 57 | Expansion within the CYP71D subfamily drives the heterocyclization of tanshinones synthesis in <i>Salvia miltiorrhiza</i> . <i>Nature Communications</i> , <b>2021</b> , 12, 685  | 17.4 | 23 |
| 56 | Biosynthesis of Diterpenoids in Adventitious Root Cultures. <i>Plant Physiology</i> , <b>2017</b> , 175, 92-103   | 6.6  | 22 |
| 55 | An ent-kaurene-derived diterpenoid virulence factor from <i>Xanthomonas oryzae</i> pv. <i>bryzicola</i> . <i>New Phytologist</i> , <b>2015</b> , 206, 295-302   | 9.8  | 21 |
| 54 | Characterization of an orphan diterpenoid biosynthetic operon from <i>Salinispora arenicola</i> . <i>Journal of Natural Products</i> , <b>2014</b> , 77, 2144-7   | 4.9  | 21 |
| 53 | Characterization of CYP115 As a Gibberellin 3-Oxidase Indicates That Certain Rhizobia Can Produce Bioactive Gibberellin A. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 912-917  | 4.9  | 20 |
| 52 | Oil Body Formation in <i>Marchantia polymorpha</i> Is Controlled by MpC1HDZ and Serves as a Defense against Arthropod Herbivores. <i>Current Biology</i> , <b>2020</b> , 30, 2815-2828.e8   | 6.3  | 20 |
| 51 | Biochemical characterization of the castor bean ent-kaurene synthase(-like) family supports quantum chemical view of diterpene cyclization. <i>Phytochemistry</i> , <b>2014</b> , 103, 13-21  | 4    | 20 |
| 50 | Direct production of dihydroxylated sesquiterpenoids by a maize terpene synthase. <i>Plant Journal</i> , <b>2018</b> , 94, 847-856  | 6.9  | 19 |
| 49 | Identification of RoCYP01 (CYP716A155) enables construction of engineered yeast for high-yield production of betulinic acid. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 7029-7039                                 | 5.7  | 19 |
| 48 | Investigating inducible short-chain alcohol dehydrogenases/reductases clarifies rice oryzalexin biosynthesis. <i>Plant Journal</i> , <b>2016</b> , 88, 271-279  | 6.9  | 18 |
| 47 | An operon for production of bioactive gibberellin A phytohormone with wide distribution in the bacterial rice leaf streak pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>New Phytologist</i> , <b>2017</b> , 214, 1260-1266 | 9.8  | 17 |



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| 46 | A Pair of Residues That Interactively Affect Diterpene Synthase Product Outcome. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 862-867   | 4.9  | 17 |
| 45 | Functional characterization and evolution of the isotuberculosinol operon in <i>Mycobacterium tuberculosis</i> and related <i>Mycobacteria</i> . <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 368   | 5.7  | 17 |
| 44 | Identification of a Dolabellane Type Diterpene Synthase and other Root-Expressed Diterpene Synthases in. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1761   | 6.2  | 17 |
| 43 | Probing Labdane-Related Diterpenoid Biosynthesis in the Fungal Genus <i>Aspergillus</i> . <i>Journal of Natural Products</i> , <b>2017</b> , 80, 328-333   | 4.9  | 16 |
| 42 | Investigating the Phylogenetic Range of Gibberellin Biosynthesis in Bacteria. <i>Molecular Plant-Microbe Interactions</i> , <b>2017</b> , 30, 343-349  | 3.6  | 16 |
| 41 | Extending a Single Residue Switch for Abbreviating Catalysis in Plant -Kaurene Synthases. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1765  | 6.2  | 16 |
| 40 | Premutilin Synthase: Ring Rearrangement by a Class II Diterpene Cyclase. <i>Organic Letters</i> , <b>2018</b> , 20, 12006-12021  | 6.2  | 14 |
| 39 | Isotuberculosinol: the unusual case of an immunomodulatory diterpenoid from. <i>MedChemComm</i> , <b>2012</b> , 3, 899-904   | 5    | 14 |
| 38 | Interdependent evolution of biosynthetic gene clusters for momilactone production in rice. <i>Plant Cell</i> , <b>2021</b> , 33, 290-305   | 11.6 | 14 |
| 37 | Isoprenyl diphosphate synthases: the chain length determining step in terpene biosynthesis. <i>Planta</i> , <b>2019</b> , 249, 9-20  | 4.7  | 14 |
| 36 | A Third Class: Functional Gibberellin Biosynthetic Operon in Beta-Proteobacteria. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2916   | 5.7  | 13 |
| 35 | cis or trans with class II diterpene cyclases. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 3158-3160   | 3.9  | 12 |
| 34 | Magnesium depletion triggers production of an immune modulating diterpenoid in <i>Mycobacterium tuberculosis</i> . <i>Molecular Microbiology</i> , <b>2011</b> , 79, 1594-601                              | 4.1  | 12 |
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| 31 | Diterpenoid biopolymers: new directions for renewable materials engineering. <i>Biopolymers</i> , <b>2011</b> , 95, 71-6   | 2.2  | 11 |
| 30 | Why are momilactones always associated with biosynthetic gene clusters in plants?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13867-13869 | 11.5 | 10 |
| 29 | Diverging Mechanisms: Cytochrome-P450-Catalyzed Demethylation and Lactone Formation in Bacterial Gibberellin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6082-6085  | 16.4 | 10 |



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| 25 | Blocking Deprotonation with Retention of Aromaticity in a Plant ent-Copalyl Diphosphate Synthase Leads to Product Rearrangement. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 644-648      | 3.6  | 9  |
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