

# Tadashi Eguchi

## List of Publications by Year in descending order

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214  
papers

4,939  
citations

87888

38  
h-index

168389

53  
g-index

229  
all docs

229  
docs citations

229  
times ranked

3748  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Structural Insight into the Reaction Mechanism of Ketosynthase-Like Decarboxylase in a Loading Module of Modular Polyketide Synthases. <i>ACS Chemical Biology</i> , 2022, 17, 198-206.   | 3.4  | 10        |
| 2  | Expression of highly active chondroitin 4-O-sulfotransferase-1 in <i>Escherichia coli</i> by a trigger factor fusion protein expression system. <i>Process Biochemistry</i> , 2022, 115, 146-151.   | 3.7  | 7         |
| 3  | Protein-Protein Recognition Involved in the Intermodular Transacylation Reaction in Modular Polyketide Synthase in the Biosynthesis of Vicenistatin. <i>ChemBioChem</i> , 2022, 23, .   | 2.6  | 7         |
| 4  | Characterization of the cobalamin-dependent radical S-adenosyl-L-methionine enzyme C-methyltransferase Fom3 in fosfomycin biosynthesis. <i>Methods in Enzymology</i> , 2022, , 45-70.   | 1.0  | 0         |
| 5  | Biosynthesis of cyclitols. <i>Natural Product Reports</i> , 2022, 39, 1622-1642.  | 10.3 | 3         |
| 6  | One-pot enzymatic synthesis of 2-deoxy- <i>scyllo</i> -inosose from <i>d</i> -glucose and polyphosphate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 108-114.   | 1.3  | 2         |
| 7  | Stepwise Post-glycosylation Modification of Sugar Moieties in Kanamycin Biosynthesis. <i>ChemBioChem</i> , 2021, 22, 1668-1675.   | 2.6  | 3         |
| 8  | Mutational Biosynthesis of Hitachimycin Analogs Controlled by the $\beta$ -Amino Acid-Selective Adenylation Enzyme HitB. <i>ACS Chemical Biology</i> , 2021, 16, 539-547.   | 3.4  | 7         |
| 9  | Substrate specificity of Chondroitinase ABC I based on analyses of biochemical reactions and crystal structures in complex with disaccharides. <i>Glycobiology</i> , 2021, 31, 1571-1581.   | 2.5  | 7         |
| 10 | Complex structure of the acyltransferase VinK and the carrier protein VinL with a pantetheine cross-linking probe. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2021, 77, 294-302.  | 0.8  | 6         |
| 11 | Biochemical and Mutational Analysis of Radical <i>S</i> -Adenosyl-L-Methionine Adenosylhopane Synthase HpnH from <i>Zymomonas mobilis</i> Reveals that the Conserved Residue Cysteine-106 Reduces a Radical Intermediate and Determines the Stereochemistry. <i>Biochemistry</i> , 2021, 60, 2865-2874. | 2.5  | 3         |
| 12 | Characterization of Radical SAM Adenosylhopane Synthase, HpnH, which Catalyzes the 5'-Deoxyadenosyl Radical Addition to Diploptene in the Biosynthesis of C 35 Bacteriohopanepolyols. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 237-241.   | 13.8 | 23        |
| 13 | Characterization of Radical SAM Adenosylhopane Synthase, HpnH, which Catalyzes the 5'-Deoxyadenosyl Radical Addition to Diploptene in the Biosynthesis of C 35 Bacteriohopanepolyols. <i>Angewandte Chemie</i> , 2020, 132, 243-247.  | 2.0  | 2         |
| 14 | C-Methylation of S-adenosyl-L-Methionine Occurs Prior to Cyclopropanation in the Biosynthesis of 1-Amino-2-Methylcyclopropanecarboxylic Acid (Norcoronamic Acid) in a Bacterium. <i>Biomolecules</i> , 2020, 10, 775.   | 4.0  | 11        |
| 15 | Generation of incednine derivatives by mutasynthesis. <i>Journal of Antibiotics</i> , 2020, 73, 794-797.  | 2.0  | 2         |
| 16 | Structural Characterization of Complex of Adenylation Domain and Carrier Protein by Using Pantetheine Cross-Linking Probe. <i>ACS Chemical Biology</i> , 2020, 15, 1808-1812.   | 3.4  | 17        |
| 17 | Biochemical and Structural Analysis of a Dehydrogenase, KanD2, and an Aminotransferase, KanS2, That Are Responsible for the Construction of the Kanosamine Moiety in Kanamycin Biosynthesis. <i>Biochemistry</i> , 2020, 59, 1470-1473.   | 2.5  | 5         |
| 18 | Structural Analysis of the Glycine Oxidase Homologue CmiS2 Reveals a Unique Substrate Recognition Mechanism for Formation of a $\beta$ -Amino Acid Starter Unit in Cremimycin Biosynthesis. <i>Biochemistry</i> , 2019, 58, 2706-2709.  | 2.5  | 6         |

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|----|--|------|-----------|
| 19 | Rapamycin directly activates lysosomal mucolipin TRP channels independent of mTOR. <i>PLoS Biology</i> , 2019, 17, e3000252.   | 5.6  | 70        |
| 20 | Functional Characterization of 3-aminobenzoic Acid Adenylation Enzyme PctU and UDP-N-acetylglucosamine: 3-aminobenzoyl-ACP Glycosyltransferase PctL in Pactamycin Biosynthesis. <i>ChemBioChem</i> , 2019, 20, 2458-2462.                                | 2.6  | 11        |
| 21 | Functional and structural characterization of IdnL7, an adenylation enzyme involved in incednine biosynthesis. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 299-306.   | 0.8  | 8         |
| 22 | An Engineered Aryl Acid Adenylation Domain with an Enlarged Substrate Binding Pocket. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6906-6910.  | 13.8 | 15        |
| 23 | An Engineered Aryl Acid Adenylation Domain with an Enlarged Substrate Binding Pocket. <i>Angewandte Chemie</i> , 2019, 131, 6980-6984.   | 2.0  | 0         |
| 24 | Functional and Structural Analyses of the Split-Dehydratase Domain in the Biosynthesis of Macrolactam Polyketide Cremimycin. <i>Biochemistry</i> , 2019, 58, 4799-4803.  | 2.5  | 5         |
| 25 | Stereochemistry in the Reaction of the myo-Inositol Phosphate Synthase Ortholog Ari2 during Aristeromycin Biosynthesis. <i>Biochemistry</i> , 2019, 58, 5112-5116.   | 2.5  | 5         |
| 26 | Structural basis of the nonribosomal codes for nonproteinogenic amino acid selective adenylation enzymes in the biosynthesis of natural products. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 515-536.                       | 3.0  | 44        |
| 27 | Carbon-free production of 2-deoxy-scyllo-inosose (DOI) in cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 161-165.   | 1.3  | 6         |
| 28 | NAD <sup>+</sup> -Dependent Dehydrogenase PctP and Pyridoxal 5-phosphate Dependent Aminotransferase PctC Catalyze the First Postglycosylation Modification of the Sugar Intermediate in Pactamycin Biosynthesis. <i>ChemBioChem</i> , 2018, 19, 126-130. | 2.6  | 8         |
| 29 | C-Methylation Catalyzed by Fom3, a Cobalamin-Dependent Radical S-adenosyl-methionine Enzyme in Fosfomycin Biosynthesis, Proceeds with Inversion of Configuration. <i>Biochemistry</i> , 2018, 57, 4963-4966.   | 2.5  | 24        |
| 30 | Protein-protein interactions in polyketide synthase nonribosomal peptide synthetase hybrid assembly lines. <i>Natural Product Reports</i> , 2018, 35, 1185-1209.   | 10.3 | 73        |
| 31 | Biochemical and Structural Analysis of FomD That Catalyzes the Hydrolysis of Cytidyl (S)-2-Hydroxypropylphosphonate in Fosfomycin Biosynthesis. <i>Biochemistry</i> , 2018, 57, 4858-4866.   | 2.5  | 11        |
| 32 | Structural Basis of Protein-Protein Interactions between a trans-Acting Acyltransferase and Acyl Carrier Protein in Polyketide Disorazole Biosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7970-7978.                          | 13.7 | 40        |
| 33 | Identification of a gene cluster for telomestatin biosynthesis and heterologous expression using a specific promoter in a clean host. <i>Scientific Reports</i> , 2017, 7, 3382.   | 3.3  | 23        |
| 34 | Structural analysis of the dual-function thioesterase SAV606 unravels the mechanism of Michael addition of glycine to an $\alpha,\beta$ -unsaturated thioester. <i>Journal of Biological Chemistry</i> , 2017, 292, 10926-10937.                         | 3.4  | 20        |
| 35 | Biochemical characterization and structural insight into aliphatic amino acid adenylation enzymes IdnL1 and CmiS6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1238-1247.  | 2.6  | 21        |
| 36 | Substrate Recognition by a Dual-Function P450 Monooxygenase GfsF Involved in FD891 Biosynthesis. <i>ChemBioChem</i> , 2017, 18, 2179-2187.   | 2.6  | 14        |

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|----|---|------|-----------|
| 37 | Fosfomycin Biosynthesis <i>via</i> Transient Cytidylylation of 2-Hydroxyethylphosphonate by the Bifunctional Fom1 Enzyme. <i>ACS Chemical Biology</i> , 2017, 12, 2209-2215.  | 3.4  | 16        |
| 38 | Methylcobalamin-Dependent Radical SAM C-Methyltransferase Fom3 Recognizes Cytidylyl-2-hydroxyethylphosphonate and Catalyzes the Nonstereoselective C-Methylation in Fosfomycin Biosynthesis. <i>Biochemistry</i> , 2017, 56, 3519-3522.   | 2.5  | 41        |
| 39 | Substrate specificity of radical S-adenosyl-l-methionine dehydratase AprD4 and its partner reductase AprD3 in the C <sup>3</sup> -deoxygenation of aminoglycoside antibiotics. <i>Journal of Antibiotics</i> , 2017, 70, 423-428.   | 2.0  | 15        |
| 40 | Genome mining of the sordarin biosynthetic gene cluster from <i>Sordaria araneosa</i> Cain ATCC 36386: characterization of cycloaraneosene synthase and GDP-6-deoxyaltrose transferase. <i>Journal of Antibiotics</i> , 2016, 69, 541-548.  | 2.0  | 46        |
| 41 | Aminoglycoside Antibiotics: New Insights into the Biosynthetic Machinery of Old Drugs. <i>Chemical Record</i> , 2016, 16, 4-18.   | 5.8  | 45        |
| 42 | Five-Membered Cyclitol Phosphate Formation by a myo-Inositol Phosphate Synthase Orthologue in the Biosynthesis of the Carbocyclic Nucleoside Antibiotic Aristeromycin. <i>ChemBioChem</i> , 2016, 17, 2143-2148.  | 2.6  | 13        |
| 43 | Mechanisms of Î <sup>2</sup> -amino acid incorporation in polyketide macrolactam biosynthesis. <i>Current Opinion in Chemical Biology</i> , 2016, 35, 58-64.  | 6.1  | 33        |
| 44 | Parallel Post-Polyketide Synthase Modification Mechanism Involved in FD-891 Biosynthesis in <i>Streptomyces graminofaciens</i> . <i>ChemBioChem</i> , 2016, 17, 233-238.  | 2.6  | 7         |
| 45 | Synthesis and structure-activity relationship study of FD-891: importance of the side chain and C <sup>8</sup> -C <sup>9</sup> epoxide for cytotoxic activity against cancer cells. <i>Journal of Antibiotics</i> , 2016, 69, 287-293.  | 2.0  | 9         |
| 46 | Vicenistatin induces early endosome-derived vacuole formation in mammalian cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 902-910.  | 1.3  | 13        |
| 47 | Structure-based analysis of the molecular interactions between acyltransferase and acyl carrier protein in vicenistatin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1802-1807.  | 7.1  | 69        |
| 48 | Identification of the Fluvirucin B2 (Sch 38518) Biosynthetic Gene Cluster from <i>Actinomadura fulva</i> subsp. <i>indica</i> ATCC 53714: substrate Specificity of the Î <sup>2</sup> -Amino Acid Selective Adenylating Enzyme FlvN. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 935-941. | 1.3  | 20        |
| 49 | Novel terpenes generated by heterologous expression of bacterial terpene synthase genes in an engineered <i>Streptomyces</i> host. <i>Journal of Antibiotics</i> , 2015, 68, 385-394.   | 2.0  | 66        |
| 50 | Epimerization at C <sup>3</sup> in Butirosin Biosynthesis by an NAD <sup>+</sup> -Dependent Dehydrogenase BtrE and an NADPH-Dependent Reductase BtrF. <i>ChemBioChem</i> , 2015, 16, 487-495.   | 2.6  | 12        |
| 51 | Genome Mining of the Hitachimycin Biosynthetic Gene Cluster: Involvement of a Phenylalanine-2,3-aminomutase in Biosynthesis. <i>ChemBioChem</i> , 2015, 16, 909-914.  | 2.6  | 36        |
| 52 | Mechanism-Based Trapping of the Quinonoid Intermediate by Using the K276R Mutant of PLP-Dependent 3-Aminobenzoate Synthase PctV in the Biosynthesis of Pactamycin. <i>ChemBioChem</i> , 2015, 16, 2484-2490.  | 2.6  | 12        |
| 53 | The Crystal Structure of the Adenylation Enzyme VinN Reveals a Unique Î <sup>2</sup> -Amino Acid Recognition Mechanism. <i>Journal of Biological Chemistry</i> , 2014, 289, 31448-31457.  | 3.4  | 46        |
| 54 | Characterization of a Radical S-Adenosyl-methionine Epimerase, NeoN, in the Last Step of Neomycin B Biosynthesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 13909-13915.   | 13.7 | 57        |

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|----|--|------|-----------|
| 55 | Biosynthesis of natural products containing $\beta^2$ -amino acids. <i>Natural Product Reports</i> , 2014, 31, 1056-1073.  | 10.3 | 188       |
| 56 | The crystal structure of the amidohydrolase VinJ shows a unique hydrophobic tunnel for its interaction with polyketide substrates. <i>FEBS Letters</i> , 2014, 588, 995-1000.  | 2.8  | 10        |
| 57 | Identification of the incednine biosynthetic gene cluster: characterization of novel $\beta^2$ -glutamate- $\beta^2$ -decarboxylase IdnL3. <i>Journal of Antibiotics</i> , 2013, 66, 691-699.  | 2.0  | 38        |
| 58 | A Single PLP-Dependent Enzyme PctV Catalyzes the Transformation of 3-Dehydroshikimate into 3-Aminobenzoate in the Biosynthesis of Pactamycin. <i>ChemBioChem</i> , 2013, 14, 1198-1203.  | 2.6  | 22        |
| 59 | A Unique Amino Transfer Mechanism for Constructing the $\beta^2$ -Amino Fatty Acid Starter Unit in the Biosynthesis of the Macrolactam Antibiotic Cremimycin. <i>ChemBioChem</i> , 2013, 14, 1998-2006.  | 2.6  | 42        |
| 60 | Differences in the Roles of a Glutamine Amidotransferase Subunit of Pyridoxal 5'-Phosphate Synthase between <i>Bacillus circulans</i> and <i>Bacillus subtilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1481-1485.                          | 1.3  | 1         |
| 61 | Characterization of Polyphosphate Glucokinase SCO5059 from <i>Streptomyces coelicolor</i> A3(2). <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2322-2324.  | 1.3  | 11        |
| 62 | Potent Oligomerization and Macrocyclization Activity of the Thioesterase Domain of Vicenistatin Polyketide Synthase. <i>Synlett</i> , 2012, 23, 1843-1846.   | 1.8  | 2         |
| 63 | A Unique Pathway for the 3-Aminobutyrate Starter Unit from L-Glutamate through $\beta^2$ -Glutamate during Biosynthesis of the 24-Membered Macrolactam Antibiotic, Incednine. <i>Organic Letters</i> , 2012, 14, 4591-4593.  | 4.6  | 24        |
| 64 | Synthesis and Structure-Activity Relationship of Vicenistatin, a Cytotoxic 20-Membered Macrolactam Glycoside. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2872-2881.  | 3.3  | 14        |
| 65 | The Last Step of Kanamycin Biosynthesis: Unique Deamination Reaction Catalyzed by the $\beta^2$ -Ketoglutarate-Dependent Nonheme Iron Dioxygenase KanJ and the NADPH-Dependent Reductase KanK. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3428-3431. | 13.8 | 27        |
| 66 | A Natural Protecting Group Strategy To Carry an Amino Acid Starter Unit in the Biosynthesis of Macrolactam Polyketide Antibiotics. <i>Journal of the American Chemical Society</i> , 2011, 133, 18134-18137.   | 13.7 | 61        |
| 67 | Cloning of the biosynthetic gene cluster for naphthoxanthene antibiotic FD-594 from <i>Streptomyces</i> sp. TA-0256. <i>Journal of Antibiotics</i> , 2011, 64, 123-132.  | 2.0  | 24        |
| 68 | Biosynthetic pathway of macrolactam polyketide antibiotic cremimycin. <i>Tetrahedron</i> , 2011, 67, 8559-8563.  | 1.9  | 9         |
| 69 | Crystallization and preliminary X-ray analysis of isopentenyl diphosphate isomerase from <i>Methanocaldococcus jannaschii</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 101-103.  | 0.7  | 1         |
| 70 | Genome Mining Reveals Two Novel Bacterial Sesquiterpene Cyclases: ( $\beta^2$ )-Germacradien-4-ol and ( $\beta^2$ )- $\beta$ -bisabolol Synthases from <i>Streptomyces citricolor</i> . <i>ChemBioChem</i> , 2011, 12, 2271-2275.                                      | 2.6  | 51        |
| 71 | Structure of <i>Thermus thermophilus</i> homoisocitrate dehydrogenase in complex with a designed inhibitor. <i>Journal of Biochemistry</i> , 2011, 150, 607-614.   | 1.7  | 6         |
| 72 | Cloning and Characterization of the Biosynthetic Gene Cluster of 16-Membered Macrolide Antibiotic FD-891: Involvement of a Dual Functional Cytochrome P450 Monooxygenase Catalyzing Epoxidation and Hydroxylation. <i>ChemBioChem</i> , 2010, 11, 1574-1582.           | 2.6  | 35        |

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|----|--|-----|-----------|
| 73 | Concise Total Synthesis of Vicenistatin. <i>Synlett</i> , 2010, 2010, 2589-2592.   | 1.8 | 3         |
| 74 | Roles of a 20 kDa Protein Associated with a Carbocycle-Forming Enzyme Involved in Aminoglycoside Biosynthesis in Primary and Secondary Metabolism. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1215-1219.  | 1.3 | 3         |
| 75 | Insights into Substrate Specificity of Geranylgeranyl Reductases Revealed by the Structure of Digeranylgeranyl glycerophospholipid Reductase, an Essential Enzyme in the Biosynthesis of Archaeal Membrane Lipids. <i>Journal of Molecular Biology</i> , 2010, 404, 403-417.               | 4.2 | 36        |
| 76 | Enzymatic activity of a glycosyltransferase KanM2 encoded in the kanamycin biosynthetic gene cluster. <i>Journal of Antibiotics</i> , 2009, 62, 707-710.   | 2.0 | 14        |
| 77 | The cytotoxic macrolide FD-891 induces caspase-8-dependent mitochondrial release of cytochrome c and subsequent apoptosis in human leukemia Jurkat cells. <i>Journal of Antibiotics</i> , 2009, 62, 507-512.   | 2.0 | 8         |
| 78 | Biosynthetic genes for aminoglycoside antibiotics. <i>Journal of Antibiotics</i> , 2009, 62, 471-481.  | 2.0 | 77        |
| 79 | Enzymatic preparation of neomycin C from ribostamycin. <i>Journal of Antibiotics</i> , 2009, 62, 643-646.  | 2.0 | 9         |
| 80 | Crystal structure of 3-isopropylmalate dehydrogenase in complex with NAD <sup>+</sup> and a designed inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7789-7794.   | 3.0 | 10        |
| 81 | Chapter 20 Biosynthetic Enzymes for the Aminoglycosides Butirosin and Neomycin. <i>Methods in Enzymology</i> , 2009, 459, 493-519.   | 1.0 | 37        |
| 82 | Structure of 2-deoxy-scylloinosose synthase, a key enzyme in the biosynthesis of 2-deoxystreptamine-containing aminoglycoside antibiotics, in complex with a mechanism-based inhibitor and NAD <sup>+</sup> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 517-527. | 2.6 | 22        |
| 83 | Crystallization and preliminary X-ray analysis of vicenisaminyltransferase VinC. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 558-560.   | 0.7 | 4         |
| 84 | Involvement of Two Distinct Acetylglucosaminyltransferases and a Dual-Function Deacetylase in Neomycin Biosynthesis. <i>ChemBioChem</i> , 2008, 9, 865-869.  | 2.6 | 26        |
| 85 | Thiahomoisocitrate: A highly potent inhibitor of homoisocitrate dehydrogenase involved in the $\beta$ -amino acid pathway. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 3372-3376.  | 3.0 | 11        |
| 86 | Biosynthetic pathway of 24-membered macrolactam glycoside incednine. <i>Tetrahedron</i> , 2008, 64, 6651-6656.   | 1.9 | 13        |
| 87 | Chemical Mechanism of Homoisocitrate Dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2008, 47, 4169-4180.   | 2.5 | 20        |
| 88 | Mechanistic Study on the Reaction of a Radical SAM Dehydrogenase BtrN by Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2008, 47, 8950-8960.  | 2.5 | 47        |
| 89 | In Vitro Biosynthesis of Ether-Type Glycolipids in the Methanoarchaeon <i>Methanothermobacter thermautotrophicus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 4053-4061.  | 2.2 | 16        |
| 90 | Membrane Properties of Archaeal Phospholipids: Effect of Macrocyclization. <i>Perspectives in Supramolecular Chemistry</i> , 2007, , 385-390.  | 0.1 | 0         |

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|-----|--|------|-----------|
| 91  | Functional Analysis of Type 1 Isopentenyl Diphosphate Isomerase from <i>Halobacterium</i> sp. NRC-1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2588-2591.  | 1.3  | 8         |
| 92  | Characterization and Mechanistic Study of a Radical SAM Dehydrogenase in the Biosynthesis of Butirosin. <i>Journal of the American Chemical Society</i> , 2007, 129, 15147-15155.  | 13.7 | 81        |
| 93  | Substrate Flexibility of Viceniaminyltransferase VinC Involved in the Biosynthesis of Vicenistatin. <i>Journal of the American Chemical Society</i> , 2007, 129, 5102-5107.  | 13.7 | 45        |
| 94  | Substrate specificity analysis and inhibitor design of homoisocitrate dehydrogenase. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1346-1355.  | 3.0  | 8         |
| 95  | Unique O-ribosylation in the biosynthesis of butirosin. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4360-4368.   | 3.0  | 25        |
| 96  | Stereochemistry of reduction in digeranylgeranyl glycerophospholipid reductase involved in the biosynthesis of archaeal membrane lipids from <i>Thermoplasma acidophilum</i> . <i>Bioorganic Chemistry</i> , 2007, 35, 276-283.                    | 4.1  | 10        |
| 97  | Role of glutamate 243 in the active site of 2-deoxy-scylo-inosose synthase from <i>Bacillus circulans</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 418-423.   | 3.0  | 13        |
| 98  | Cloning of the Pactamycin Biosynthetic Gene Cluster and Characterization of a Crucial Glycosyltransferase Prior to a Unique Cyclopentane Ring Formation. <i>Journal of Antibiotics</i> , 2007, 60, 492-503.  | 2.0  | 51        |
| 99  | Metabolite profiling of plant carotenoids using the matrix-assisted laser desorption ionization time-of-flight mass spectrometry. <i>Plant Journal</i> , 2007, 49, 552-564.  | 5.7  | 126       |
| 100 | Biosynthesis of 2-Deoxystreptamine-containing Antibiotics in <i>Streptoalloteichus hindustanus</i> JCM 3268: Characterization of 2-Deoxy-scylo-inosose Synthase. <i>Journal of Antibiotics</i> , 2006, 59, 358-361.                                | 2.0  | 13        |
| 101 | The Complete Biosynthetic Gene Cluster of the 28-Membered Polyketide Macrolactones, Halstoctacosanolides, from <i>Streptomyces halstedii</i> HC34. <i>Journal of Antibiotics</i> , 2006, 59, 44-52.  | 2.0  | 26        |
| 102 | Inhibition of type 2 isopentenyl diphosphate isomerase from <i>Methanocaldococcus jannaschii</i> by a mechanism-based inhibitor of type 1 isopentenyl diphosphate isomerase. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6555-6559.      | 3.0  | 31        |
| 103 | Macrolactam formation catalyzed by the thioesterase domain of vicenistatin polyketide synthase. <i>Tetrahedron Letters</i> , 2006, 47, 1529-1532.  | 1.4  | 14        |
| 104 | Biosynthesis of Archaeal Membrane Lipids: Digeranylgeranyl glycerophospholipid Reductase of the Thermoacidophilic Archaeon <i>Thermoplasma acidophilum</i> . <i>Journal of Biochemistry</i> , 2006, 139, 1073-1081.                                | 1.7  | 44        |
| 105 | Aglycon switch approach toward unnatural glycosides from natural glycoside with glycosyltransferase VinC. <i>Tetrahedron Letters</i> , 2005, 46, 6187-6190.  | 1.4  | 52        |
| 106 | Preparation of highly deuterated zeaxanthin, lycopene, and $\beta$ -carotene from fully deuterated mevalonate using engineered <i>Escherichia coli</i> . <i>Tetrahedron</i> , 2005, 61, 2027-2035.   | 1.9  | 8         |
| 107 | Stereospecificity of hydride transfer in NAD <sup>+</sup> -catalyzed 2-deoxy-scylo-inosose synthase, the key enzyme in the biosynthesis of 2-deoxystreptamine-containing aminocyclitol antibiotics. <i>Bioorganic Chemistry</i> , 2005, 33, 82-89. | 4.1  | 13        |
| 108 | Biosynthesis of 2-Deoxystreptamine by Three Crucial Enzymes in <i>Streptomyces fradiae</i> NBRC 12773. <i>Journal of Antibiotics</i> , 2005, 58, 766-774.  | 2.0  | 43        |

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|-----|--|------|-----------|
| 109 | Extended Sequence and Functional Analysis of the Butirosin Biosynthetic Gene Cluster in <i>Bacillus circulans</i> SANK 72073. <i>Journal of Antibiotics</i> , 2005, 58, 373-379.   | 2.0  | 29        |
| 110 | Involvement of Glutamate Mutase in the Biosynthesis of the Unique Starter Unit of the Macrolactam Polyketide Antibiotic Vicenistatin. <i>Journal of Antibiotics</i> , 2005, 58, 468-472.   | 2.0  | 24        |
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