

# Chaitan Khosla

## List of Publications by Citations

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369  
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L-index

#	Paper	IF	Citations
353	Structural basis for gluten intolerance in celiac sprue. <i>Science</i> , <b>2002</b> , 297, 2275-9	33.3	1181
352	A new enzyme superfamily - the phosphopantetheinyl transferases. <i>Chemistry and Biology</i> , <b>1996</b> , 3, 923-36		664
351	Biosynthesis of complex polyketides in a metabolically engineered strain of E. coli. <i>Science</i> , <b>2001</b> , 291, 1790-2	33.3	586
350	Harnessing the biosynthetic code: combinations, permutations, and mutations. <i>Science</i> , <b>1998</b> , 282, 63-8	33.3	461
349	Cloning and heterologous expression of the epothilone gene cluster. <i>Science</i> , <b>2000</b> , 287, 640-2	33.3	391
348	Structural basis for HLA-DQ2-mediated presentation of gluten epitopes in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 4175-9	11.5	332
347	Transglutaminase 2 undergoes a large conformational change upon activation. <i>PLoS Biology</i> , <b>2007</b> , 5, e327	9.7	318
346	Tolerance and specificity of polyketide synthases. <i>Annual Review of Biochemistry</i> , <b>1999</b> , 68, 219-53	29.1	318
345	Overproduction of free fatty acids in E. coli: implications for biodiesel production. <i>Metabolic Engineering</i> , <b>2008</b> , 10, 333-9	9.7	307
344	Dissecting and exploiting intermodular communication in polyketide synthases. <i>Science</i> , <b>1999</b> , 284, 482-5	33.3	295
343	Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease. <i>Science</i> , <b>2017</b> , 356, 44-50	33.3	264
342	Rational design of aromatic polyketide natural products by recombinant assembly of enzymatic subunits. <i>Nature</i> , <b>1995</b> , 375, 549-54	50.4	254
341	Precursor-directed biosynthesis of erythromycin analogs by an engineered polyketide synthase. <i>Science</i> , <b>1997</b> , 277, 367-9	33.3	246
340	Structure and mechanism of the 6-deoxyerythronolide B synthase. <i>Annual Review of Biochemistry</i> , <b>2007</b> , 76, 195-221	29.1	243
339	Nonproteinogenic amino acid building blocks for nonribosomal peptide and hybrid polyketide scaffolds. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7098-124	16.4	233
338	Intestinal digestive resistance of immunodominant gliadin peptides. <i>American Journal of Physiology - Renal Physiology</i> , <b>2002</b> , 283, G996-G1003	5.1	222
337	The 2.7-Angstrom crystal structure of a 194-kDa homodimeric fragment of the 6-deoxyerythronolide B synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11124-9	11.5	218

336	Heterologous expression of a bacterial haemoglobin improves the growth properties of recombinant <i>Escherichia coli</i> . <i>Nature</i> , <b>1988</b> , 331, 633-5	50.4	212
335	Identification and analysis of multivalent proteolytically resistant peptides from gluten: implications for celiac sprue. <i>Journal of Proteome Research</i> , <b>2005</b> , 4, 1732-41	5.6	210
334	Biosynthesis of polyketides in heterologous hosts. <i>Microbiology and Molecular Biology Reviews</i> , <b>2001</b> , 65, 106-18	13.2	201
333	Harnessing the Biosynthetic Potential of Modular Polyketide Synthases. <i>Chemical Reviews</i> , <b>1997</b> , 97, 2577-2590	68.1	183
332	Quantitative analysis and engineering of fatty acid biosynthesis in <i>E. coli</i> . <i>Metabolic Engineering</i> , <b>2010</b> , 12, 378-86	9.7	179
331	Comparative biochemical analysis of three bacterial prolyl endopeptidases: implications for coeliac sprue. <i>Biochemical Journal</i> , <b>2004</b> , 383, 311-8	3.8	179
330	Combination enzyme therapy for gastric digestion of dietary gluten in patients with celiac sprue. <i>Gastroenterology</i> , <b>2007</b> , 133, 472-80	13.3	174
329	Role of linkers in communication between protein modules. <i>Current Opinion in Chemical Biology</i> , <b>2000</b> , 4, 22-7	9.7	155
328	Transglutaminase 2 inhibitors and their therapeutic role in disease states <b>2007</b> , 115, 232-45		151
327	Extracellular transglutaminase 2 is catalytically inactive, but is transiently activated upon tissue injury. <i>PLoS ONE</i> , <b>2008</b> , 3, e1861	3.7	148
326	Biosynthesis of aromatic polyketides in bacteria. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 631-9	24.3	147
325	Metabolic engineering for drug discovery and development. <i>Nature Reviews Drug Discovery</i> , <b>2003</b> , 2, 1019-25	64.1	147
324	Isolation and characterization of the epothilone biosynthetic gene cluster from <i>Sorangium cellulosum</i> . <i>Gene</i> , <b>2000</b> , 249, 153-60	3.8	147
323	An antibiotic factory caught in action. <i>Nature Structural and Molecular Biology</i> , <b>2004</b> , 11, 888-93	17.6	142
322	Expanding the fluorine chemistry of living systems using engineered polyketide synthase pathways. <i>Science</i> , <b>2013</b> , 341, 1089-94	33.3	141
321	Dietary gluten triggers concomitant activation of CD4+ and CD8+ $\Gamma$ cells and $\Gamma$ cells in celiac disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13073-8	11.5	139
320	Chemistry and biology of dihydroisoxazole derivatives: selective inhibitors of human transglutaminase 2. <i>Chemistry and Biology</i> , <b>2005</b> , 12, 469-75		137
319	Redox regulation of transglutaminase 2 activity. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 25402-9	5.4	135

318	Transglutaminase 2 inhibitor, KCC009, disrupts fibronectin assembly in the extracellular matrix and sensitizes orthotopic glioblastomas to chemotherapy. <i>Oncogene</i> , <b>2007</b> , 26, 2563-73	9.2	134
317	Evolution of polyketide synthases in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 4595-600	11.5	133
316	Structural and mechanistic analysis of protein interactions in module 3 of the 6-deoxyerythronolide B synthase. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 931-43		126
315	Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification. <i>Nature Chemical Biology</i> , <b>2016</b> , 12, 361-6	11.7	123
314	Mechanism and specificity of the terminal thioesterase domain from the erythromycin polyketide synthase. <i>Chemistry and Biology</i> , <b>1999</b> , 6, 117-25		122
313	In vitro reconstitution and steady-state analysis of the fatty acid synthase from <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18643-8	11.5	121
312	Antigen presentation to celiac lesion-derived T cells of a 33-mer gliadin peptide naturally formed by gastrointestinal digestion. <i>Journal of Immunology</i> , <b>2004</b> , 173, 1757-62	5.3	121
311	Modular enzymes. <i>Nature</i> , <b>2001</b> , 409, 247-52	50.4	121
310	Structural and mechanistic analysis of two prolyl endopeptidases: role of interdomain dynamics in catalysis and specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 3599-604	11.5	119
309	Future therapeutic options for celiac disease. <i>Nature Reviews Gastroenterology &amp; Hepatology</i> , <b>2005</b> , 2, 140-7		119
308	Apoptolidin, a selective cytotoxic agent, is an inhibitor of F0F1-ATPase. <i>Chemistry and Biology</i> , <b>2001</b> , 8, 71-80		119
307	Toward the assessment of food toxicity for celiac patients: characterization of monoclonal antibodies to a main immunogenic gluten peptide. <i>PLoS ONE</i> , <b>2008</b> , 3, e2294	3.7	117
306	Catalysis, specificity, and ACP docking site of <i>Streptomyces coelicolor</i> malonyl-CoA:ACP transacylase. <i>Structure</i> , <b>2003</b> , 11, 147-54	5.2	117
305	High selectivity of human tissue transglutaminase for immunoactive gliadin peptides: implications for celiac sprue. <i>Biochemistry</i> , <b>2002</b> , 41, 386-93	3.2	113
304	Assessing the balance between protein-protein interactions and enzyme-substrate interactions in the channeling of intermediates between polyketide synthase modules. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 6465-74	16.4	112
303	Combinatorial biosynthesis of polyketides—a perspective. <i>Current Opinion in Chemical Biology</i> , <b>2012</b> , 16, 117-23	9.7	110
302	Prolyl endopeptidases. <i>Cellular and Molecular Life Sciences</i> , <b>2007</b> , 64, 345-55	10.3	109
301	Selective protein-protein interactions direct channeling of intermediates between polyketide synthase modules. <i>Biochemistry</i> , <b>2001</b> , 40, 2326-31	3.2	109

300	Insights into channel architecture and substrate specificity from crystal structures of two macrocycle-forming thioesterases of modular polyketide synthases. <i>Biochemistry</i> , <b>2002</b> , 41, 12598-606	3.2	108
299	Quantitative analysis of the relative contributions of donor acyl carrier proteins, acceptor ketosynthases, and linker regions to intermodular transfer of intermediates in hybrid polyketide synthases. <i>Biochemistry</i> , <b>2002</b> , 41, 5056-66	3.2	107
298	HEx: A heterologous expression platform for the discovery of fungal natural products. <i>Science Advances</i> , <b>2018</b> , 4, eaar5459	14.3	106
297	Genetic engineering of <i>Escherichia coli</i> for biofuel production. <i>Annual Review of Genetics</i> , <b>2010</b> , 44, 53-69	4.5	106
296	Prolyl endopeptidase-mediated destruction of T cell epitopes in whole gluten: chemical and immunological characterization. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2005</b> , 312, 19-26	4.7	106
295	Rational design of combination enzyme therapy for celiac sprue. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 649-58		101
294	Engineered Biosynthesis of Novel Polyketides: Dissection of the Catalytic Specificity of the act Ketoreductase. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 4166-4170	16.4	101
293	Generation of polyketide libraries via combinatorial biosynthesis. <i>Trends in Biotechnology</i> , <b>1996</b> , 14, 335-41	4.1	100
292	Biosynthesis of Yersiniabactin, a complex polyketide-nonribosomal peptide, using <i>Escherichia coli</i> as a heterologous host. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 6698-702	4.8	99
291	The <i>Vitreoscilla</i> hemoglobin gene: molecular cloning, nucleotide sequence and genetic expression in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , <b>1988</b> , 214, 158-61		98
290	Heterologous expression, purification, refolding, and structural-functional characterization of EP-B2, a self-activating barley cysteine endoprotease. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 637-47		94
289	Assembly line polyketide synthases: mechanistic insights and unsolved problems. <i>Biochemistry</i> , <b>2014</b> , 53, 2875-83	3.2	93
288	Solution structure and proposed domain domain recognition interface of an acyl carrier protein domain from a modular polyketide synthase. <i>Protein Science</i> , <b>2007</b> , 16, 2093-107	6.3	92
287	Evidence for two catalytically independent clusters of active sites in a functional modular polyketide synthase. <i>Biochemistry</i> , <b>1996</b> , 35, 12363-8	3.2	90
286	Polyketide chain length control by chain length factor. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 12708-9	16.4	87
285	Effect of prolyl endopeptidase on digestive-resistant gliadin peptides in vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 311, 213-9	4.7	86
284	Solution structure and backbone dynamics of the holo form of the frenolicin acyl carrier protein. <i>Biochemistry</i> , <b>2003</b> , 42, 4648-57	3.2	86
283	Activation of extracellular transglutaminase 2 by thioredoxin. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 37866-73	5.4	85

282	Effect of pretreatment of food gluten with prolyl endopeptidase on gluten-induced malabsorption in celiac sprue. <i>Clinical Gastroenterology and Hepatology</i> , <b>2005</b> , 3, 687-94	6.9	85
281	Engineered Biosynthesis of Novel Polyketides from Streptomyces Spore Pigment Polyketide Synthases. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 7749-7759	16.4	85
280	Engineered biosynthesis of a triketide lactone from an incomplete modular polyketide synthase. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 11612-11613	16.4	85
279	Novel therapies for coeliac disease. <i>Journal of Internal Medicine</i> , <b>2011</b> , 269, 604-13	10.8	83
278	Novel aspects of quantitation of immunogenic wheat gluten peptides by liquid chromatography-mass spectrometry/mass spectrometry. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 4167-83	4.5	83
277	Engineered Biosynthesis of Novel Polyketides: actVII and actIV Genes Encode Aromatase and Cyclase Enzymes, Respectively. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10855-10859	16.4	83
276	Process and metabolic strategies for improved production of Escherichia coli-derived 6-deoxyerythronolide B. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 3287-92	4.8	82
275	Engineered biosynthesis of novel polyketides: manipulation and analysis of an aromatic polyketide synthase with unproven catalytic specificities. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 11671-11675	16.4	82
274	Structure and mechanism of assembly line polyketide synthases. <i>Current Opinion in Structural Biology</i> , <b>2016</b> , 41, 10-18	8.1	81
273	Reprogramming a module of the 6-deoxyerythronolide B synthase for iterative chain elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 4110-5	11.5	81
272	Extender unit and acyl carrier protein specificity of ketosynthase domains of the 6-deoxyerythronolide B synthase. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 3067-74	16.4	80
271	Revisiting the modularity of modular polyketide synthases. <i>Current Opinion in Chemical Biology</i> , <b>2009</b> , 13, 135-43	9.7	78
270	Cloning, nucleotide sequence, and heterologous expression of the biosynthetic gene cluster for R1128, a non-steroidal estrogen receptor antagonist. Insights into an unusual priming mechanism. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 33443-8	5.4	78
269	Purification and in vitro reconstitution of the essential protein components of an aromatic polyketide synthase. <i>Biochemistry</i> , <b>1998</b> , 37, 2084-8	3.2	78
268	Combinatorial biosynthesis of NnnaturalNatural products: the polyketide example. <i>Chemistry and Biology</i> , <b>1995</b> , 2, 355-62		78
267	Dissecting the role of acyltransferase domains of modular polyketide synthases in the choice and stereochemical fate of extender units. <i>Biochemistry</i> , <b>1999</b> , 38, 1643-51	3.2	77
266	Engineered Biosynthesis of Structurally Diverse Tetraketides by a Trimodular Polyketide Synthase. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9184-9185	16.4	77
265	Alcohol Stereochemistry in Polyketide Backbones Is Controlled by the Ketoreductase Domains of Modular Polyketide Synthases. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 2478-2479	16.4	76

264	Engineering the acyltransferase substrate specificity of assembly line polyketide synthases. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130297	4.1	75
263	Stereospecificity of ketoreductase domains of the 6-deoxyerythronolide B synthase. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13758-69	16.4	75
262	Gain of Function Mutagenesis of the Erythromycin Polyketide Synthase. 2. Engineered Biosynthesis of an Eight-Membered Ring Tetraketide Lactone. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 11339-11340	16.4	74
261	Metabolic engineering of a methylmalonyl-CoA mutase-epimerase pathway for complex polyketide biosynthesis in <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2002</b> , 41, 5193-201	3.2	74
260	Evolution and Diversity of Assembly-Line Polyketide Synthases. <i>Chemical Reviews</i> , <b>2019</b> , 119, 12524-12548	18.1	74
259	Engineered intermodular and intramodular polyketide synthase fusions. <i>Chemistry and Biology</i> , <b>1997</b> , 4, 667-74		73
258	Cyclic and dimeric gluten peptide analogues inhibiting DQ2-mediated antigen presentation in celiac disease. <i>Bioorganic and Medicinal Chemistry</i> , <b>2007</b> , 15, 6565-73	3.4	73
257	Epothilone C macrolactonization and hydrolysis are catalyzed by the isolated thioesterase domain of epothilone polyketide synthase. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3428-9	16.4	73
256	Engineered biosynthesis of an ansamycin polyketide precursor in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9774-8	11.5	73
255	Tissue transglutaminase 2 inhibition promotes cell death and chemosensitivity in glioblastomas. <i>Molecular Cancer Therapeutics</i> , <b>2005</b> , 4, 1293-302	6.1	73
254	Protein engineering of improved prolyl endopeptidases for celiac sprue therapy. <i>Protein Engineering, Design and Selection</i> , <b>2008</b> , 21, 699-707	1.9	71
253	Genetic Mapping and Biochemical Basis of Yellow Feather Pigmentation in Budgerigars. <i>Cell</i> , <b>2017</b> , 171, 427-439.e21	56.2	70
252	Structures and mechanisms of polyketide synthases. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 6416-20	4.2	70
251	Gain-of-Function Mutagenesis of a Modular Polyketide Synthase. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4309-4310	16.4	70
250	Polyketide double bond biosynthesis. Mechanistic analysis of the dehydratase-containing module 2 of the picromycin/methymycin polyketide synthase. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17393-404	16.4	70
249	Targeted gene replacements in a <i>Streptomyces</i> polyketide synthase gene cluster: role for the acyl carrier protein. <i>Molecular Microbiology</i> , <b>1992</b> , 6, 3237-49	4.1	70
248	The biochemical basis for stereochemical control in polyketide biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 18501-11	16.4	69
247	Structure-activity relationship analysis of the selective inhibition of transglutaminase 2 by dihydroisoxazoles. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 7493-501	8.3	69

246	Molecular recognition between ketosynthase and acyl carrier protein domains of the 6-deoxyerythronolide B synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 22066-71	11.5	68
245	Kinetic and structural analysis of a new group of Acyl-CoA carboxylases found in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 31228-36	5.4	68
244	Engineered biosynthesis of regioselectively modified aromatic polyketides using bimodular polyketide synthases. <i>PLoS Biology</i> , <b>2004</b> , 2, E31	9.7	67
243	Design, synthesis, and evaluation of gluten peptide analogs as selective inhibitors of human tissue transglutaminase. <i>Chemistry and Biology</i> , <b>2003</b> , 10, 225-31		66
242	Engineered biosynthesis of novel polyketides: evidence for temporal, but not regiospecific, control of cyclization of an aromatic polyketide precursor. <i>Chemistry and Biology</i> , <b>1994</b> , 1, 205-10		66
241	IL-15, gluten and HLA-DQ8 drive tissue destruction in coeliac disease. <i>Nature</i> , <b>2020</b> , 578, 600-604	50.4	65
240	Structure and mechanism of the trans-acting acyltransferase from the disorazole synthase. <i>Biochemistry</i> , <b>2011</b> , 50, 6539-48	3.2	64
239	A food-grade enzyme preparation with modest gluten detoxification properties. <i>PLoS ONE</i> , <b>2009</b> , 4, e63137		64
238	Structure-based dissociation of a type I polyketide synthase module. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 784-92		64
237	Fermentation, purification, formulation, and pharmacological evaluation of a prolyl endopeptidase from <i>Myxococcus xanthus</i> : implications for Celiac Sprue therapy. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 92, 674-84	4.9	64
236	Expression of intracellular hemoglobin improves protein synthesis in oxygen-limited <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , <b>1990</b> , 8, 849-53	44.5	64
235	Inhibition of HLA-DQ2-mediated antigen presentation by analogues of a high affinity 33-residue peptide from alpha2-gliadin. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1859-67	16.4	63
234	Crystal structure of the priming beta-ketosynthase from the R1128 polyketide biosynthetic pathway. <i>Structure</i> , <b>2002</b> , 10, 1559-68	5.2	63
233	Mechanistic analysis of acyl transferase domain exchange in polyketide synthase modules. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 5366-74	16.4	63
232	Molecular insights into the biosynthesis of guadinomine: a type III secretion system inhibitor. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 17797-806	16.4	62
231	Transglutaminase 2 regulates mallory body inclusion formation and injury-associated liver enlargement. <i>Gastroenterology</i> , <b>2007</b> , 132, 1515-26	13.3	62
230	Mechanistic analysis of a type II polyketide synthase. Role of conserved residues in the beta-ketoacyl synthase-chain length factor heterodimer. <i>Biochemistry</i> , <b>2000</b> , 39, 2088-95	3.2	62
229	A non-human primate model for gluten sensitivity. <i>PLoS ONE</i> , <b>2008</b> , 3, e1614	3.7	61



228	Analysis of the Molecular Recognition Features of Individual Modules Derived from the Erythromycin Polyketide Synthase. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4847-4852	16.4	61
227	A functional chimeric modular polyketide synthase generated via domain replacement. <i>Chemistry and Biology</i> , <b>1996</b> , 3, 827-31		61
226	Understanding substrate specificity of polyketide synthase modules by generating hybrid multimodular synthases. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 42020-6	5.4	60
225	Reconstituting modular activity from separated domains of 6-deoxyerythronolide B synthase. <i>Biochemistry</i> , <b>2004</b> , 43, 13892-8	3.2	59
224	Expression, site-directed mutagenesis, and steady state kinetic analysis of the terminal thioesterase domain of the methymycin/picromycin polyketide synthase. <i>Biochemistry</i> , <b>2002</b> , 41, 12590-7	3.2	59
223	Stereospecificity of the dehydratase domain of the erythromycin polyketide synthase. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14697-9	16.4	58
222	Effect of barley endoprotease EP-B2 on gluten digestion in the intact rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 318, 1178-86	4.7	58
221	Ketosynthases in the initiation and elongation modules of aromatic polyketide synthases have orthogonal acyl carrier protein specificity. <i>Biochemistry</i> , <b>2003</b> , 42, 6588-95	3.2	58
220	Natural product biosynthesis: a new interface between enzymology and medicine. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 8127-33	4.2	58
219	Oral enzyme therapy for celiac sprue. <i>Methods in Enzymology</i> , <b>2012</b> , 502, 241-71	1.7	57
218	The loading module of rifamycin synthetase is an adenylation-thiolation didomain with substrate tolerance for substituted benzoates. <i>Biochemistry</i> , <b>2001</b> , 40, 6116-23	3.2	57
217	Evidence for partial export of <i>Vitreoscilla</i> hemoglobin into the periplasmic space in <i>Escherichia coli</i> . Implications for protein function. <i>Journal of Molecular Biology</i> , <b>1989</b> , 210, 79-89	6.5	57
216	Precursor-directed biosynthesis of epothilone in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7436-7	16.4	55
215	Architectures of whole-module and bimodular proteins from the 6-deoxyerythronolide B synthase. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 2229-45	6.5	54
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