

Microbial Iron Acquisition: Marine and Terrestrial Siderophores

Chemical Reviews

109, 4580-4595

DOI: 10.1021/cr9002787

Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of [4-(2-Hydroxyphenyl)thiazol-2-yl]methanones as Potential Bioisosteres of Salicylidene Acylhydrazides. <i>Molecules</i> , 2010, 15, 6019-6034.	3.8	4
2	Towards a unifying, systems biology understanding of large-scale cellular death and destruction caused by poorly liganded iron: Parkinson's, Huntington's, Alzheimer's, prions, bactericides, chemical toxicology and others as examples. <i>Archives of Toxicology</i> , 2010, 84, 825-889.	4.2	330
5	Adhesive Vesicles through Adaptive Response of a Biobased Surfactant. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9509-9512.	13.8	32
6	Microbial Siderophores. <i>Progress in the Chemistry of Organic Natural Products</i> , 2010, 92, 1-75.	1.1	22
7	Characterization of a Hemophore-like Protein from <i>Porphyromonas gingivalis</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 40028-40038.	3.4	49
8	Chemistry and biology of siderophores. <i>Natural Product Reports</i> , 2010, 27, 637.	10.3	1,330
9	Siderophore-promoted dissolution of cobalt from hydroxide minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2915-2925.	3.9	28
10	Kinetic and Inhibition Studies of Dihydroxybenzoate-AMP Ligase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2010, 49, 3648-3657.	2.5	34
11	Biochemical and Structural Characterization of Bisubstrate Inhibitors of BasE, the Self-Standing Nonribosomal Peptide Synthetase Adenylate-Forming Enzyme of Acinetobactin Synthesis,. <i>Biochemistry</i> , 2010, 49, 9292-9305.	2.5	52
12	Evidence for ligand hydrolysis and Fe(III) reduction in the dissolution of goethite by desferrioxamine-B. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6706-6720.	3.9	28
13	Production of Metabolites as Bacterial Responses to the Marine Environment. <i>Marine Drugs</i> , 2010, 8, 705-727.	4.6	158
14	Discovery of novel antibacterials. <i>Expert Opinion on Drug Discovery</i> , 2010, 5, 145-154.	5.0	28
15	Structural Characterization and High-Throughput Screening of Inhibitors of PvdQ, an NTN Hydrolase Involved in Pyoverdine Synthesis. <i>ACS Chemical Biology</i> , 2011, 6, 1277-1286.	3.4	83
16	Pericyclic Reactions Catalyzed by Chorismate-Utilizing Enzymes. <i>Biochemistry</i> , 2011, 50, 7476-7483.	2.5	29
17	Natural and Synthetic Small Boron-Containing Molecules as Potential Inhibitors of Bacterial and Fungal Quorum Sensing. <i>Chemical Reviews</i> , 2011, 111, 209-237.	47.7	173
18	Muscarine, imidazole, oxazole, and thiazole alkaloids. <i>Natural Product Reports</i> , 2011, 28, 1143.	10.3	272
19	Structure and Biosynthesis of Amychelin, an Unusual Mixed-Ligand Siderophore from <i>Amycolatopsis</i> sp. AA4. <i>Journal of the American Chemical Society</i> , 2011, 133, 11434-11437.	13.7	103
20	Complexes Formed in Solution Between Vanadium(IV)/(V) and the Cyclic Dihydroxamic Acid Putrebactin or Linear Suberodihydroxamic Acid. <i>Inorganic Chemistry</i> , 2011, 50, 5978-5989.	4.0	19

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21	Magnetite Biomineralization in Bacteria. Progress in Molecular and Subcellular Biology, 2011, 52, 3-27.	1.6	12
22	Radionuclide Geomicrobiology of the Deep Biosphere. Geomicrobiology Journal, 2011, 28, 540-561.	2.0	31
23	Transition metal complexes as solar photocatalysts in the environment. Advances in Inorganic Chemistry, 2011, , 291-343.	1.0	14
24	Essential metals for nitrogen fixation in a free-living N ₂ -fixing bacterium: chelation, homeostasis and high use efficiency. Environmental Microbiology, 2011, 13, 1395-1411.	3.8	93
25	The role of reduction in iron uptake processes in a unicellular, planktonic cyanobacterium. Environmental Microbiology, 2011, 13, 2990-2999.	3.8	105
26	Mechanistic and structural studies of the N-hydroxylating flavoprotein monooxygenases. Bioorganic Chemistry, 2011, 39, 171-177.	4.1	46
27	The biological occurrence and trafficking of cobalt. Metallomics, 2011, 3, 963.	2.4	136
28	Identification of new members within suites of amphiphilic marine siderophores. BioMetals, 2011, 24, 85-92.	4.1	34
29	Chemical and structural characterization of hydroxamate siderophore produced by marine <i>Vibrio harveyi</i> . Journal of Industrial Microbiology and Biotechnology, 2011, 38, 265-273.	3.0	20
30	<i>Bacillus</i> spp. of Human Origin: A Potential Siderophoregenic Probiotic Bacteria. Applied Biochemistry and Biotechnology, 2011, 164, 386-400.	2.9	24
31	Metallosurfactants of bioinorganic interest: Coordination-induced self assembly. Coordination Chemistry Reviews, 2011, 255, 678-687.	18.8	66
32	Facile synthesis of salmochelin S1, S2, MGE, DGE, and TGE. Tetrahedron, 2011, 67, 144-151.	1.9	29
33	Recent Achievements on Siderophore Production and Application. Recent Patents on Biotechnology, 2011, 5, 183-198.	0.8	17
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35	Biosynthesis of a Complex Yersiniabactin-Like Natural Product via the <i>mic</i> Locus in Phytopathogen <i>Ralstonia solanacearum</i> . Applied and Environmental Microbiology, 2011, 77, 6117-6124.	3.1	52
36	Two distinct pathways for iron acquisition by iron-limited cyanobacterial cells: evidence from experiments using siderophores and synthetic chelators. Botany, 2012, 90, 181-190.	1.0	13
37	Variations in methanobactin structure influences copper utilization by methane-oxidizing bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8400-8404.	7.1	81
38	Plant growth-promoting rhizobacteria (PGPR): their potential as antagonists and biocontrol agents. Genetics and Molecular Biology, 2012, 35, 1044-1051.	1.3	1,040

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40	Magnetotactic bacteria, magnetosomes and their application. <i>Microbiological Research</i> , 2012, 167, 507-519.	5.3	176
41	Genomics-driven discovery of taiwachelin, a lipopeptide siderophore from <i>Cupriavidus taiwanensis</i> . <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9338.	2.8	27
42	Elemental Economy. <i>Advances in Microbial Physiology</i> , 2012, 60, 91-210.	2.4	180
43	Public good dynamics drive evolution of iron acquisition strategies in natural bacterioplankton populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20059-20064.	7.1	294
44	Synthesis and structure confirmation of fuscachelins A and B, structurally unique natural product siderophores from <i>Thermobifida fusca</i> . <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5353.	2.8	5
45	An Enzymatic Pathway for the Biosynthesis of the Formylhydroxyornithine Required for Rhodochelin Iron Coordination. <i>Biochemistry</i> , 2012, 51, 3059-3066.	2.5	31
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47	Mixing and Matching Siderophore Clusters: Structure and Biosynthesis of Serratiochelins from <i>Serratia</i> sp. V4. <i>Journal of the American Chemical Society</i> , 2012, 134, 13550-13553.	13.7	48
48	Preparation of bifunctional isocyanate hydroxamate linkers: synthesis of carbamate and urea tethered polyhydroxamic acid chelators. <i>Tetrahedron Letters</i> , 2012, 53, 6367-6371.	1.4	2
49	Structure and Biosynthetic Assembly of Piscibactin, a Siderophore from <i>Photobacterium damsela</i> subsp. <i>piscicida</i> , Predicted from Genome Analysis. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 5693-5700.	2.4	49
50	Syntheses of Siderophore-Drug Conjugates Using a Convergent Thiol-Maleimide System. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 799-803.	2.8	49
52	Heterologous production of bisucaberin using a biosynthetic gene cluster cloned from a deep sea metagenome. <i>Molecular BioSystems</i> , 2012, 8, 482-485.	2.9	32
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57	Emerging Paradigms for Complex Iron-Sulfur Cofactor Assembly and Insertion. <i>Annual Review of Biochemistry</i> , 2012, 81, 429-450.	11.1	90

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59	Iron transporters in marine prokaryotic genomes and metagenomes. Environmental Microbiology, 2012, 14, 114-128.	3.8	93
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62	Pathogenesis, virulence factors and virulence regulation of vibrios belonging to the <i>Harveyi</i> clade. Reviews in Aquaculture, 2012, 4, 59-74.	9.0	117
63	Haemophore functions revisited. Molecular Microbiology, 2012, 85, 618-631.	2.5	52
64	Iron transport in the genus Marinobacter. BioMetals, 2012, 25, 135-147.	4.1	32
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67	Detection of photoactive siderophore biosynthetic genes in the marine environment. BioMetals, 2013, 26, 507-516.	4.1	17
68	Insights on how the <i>Mycobacterium tuberculosis</i> heme uptake pathway can be used as a drug target. Future Medicinal Chemistry, 2013, 5, 1391-1403.	2.3	46
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72	Genome sequence and functional genomic analysis of the oil-degrading bacterium Oleispira antarctica. Nature Communications, 2013, 4, 2156.	12.8	115
73	The variable hydroxamic acid siderophore metabolome of the marine actinomycete Salinispora tropica CNB-440. Metallomics, 2013, 5, 1519.	2.4	43
74	Crystal ball “ 2013. Environmental Microbiology Reports, 2013, 5, 1-16.	2.4	2
75	Identification and structural characterization of serobactins, a suite of lipopeptide siderophores produced by the grass endophyte <i>Hesperispirillum seropedicae</i> . Environmental Microbiology, 2013, 15, 916-927.	3.8	66

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76	Catecholâ€Based Biomimetic Functional Materials. <i>Advanced Materials</i> , 2013, 25, 653-701.	21.0	638
77	Iron in Cyanobacteria. <i>Advances in Botanical Research</i> , 2013, , 57-105.	1.1	68
78	Interactions of a Periplasmic Binding Protein with a Tetradentate Siderophore Mimic. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4595-4598.	13.8	23
79	Integrated Metabolomics Approach Facilitates Discovery of an Unpredicted Natural Product Suite from <i>Streptomyces coelicolor</i> M145. <i>ACS Chemical Biology</i> , 2013, 8, 2009-2016.	3.4	62
80	Non-Nucleoside Inhibitors of BasE, an Adenylating Enzyme in the Siderophore Biosynthetic Pathway of the Opportunistic Pathogen <i>Acinetobacter baumannii</i> . <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2385-2405.	6.4	48
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82	Goldâ€deferrioxamine nanometric interface for selective recognition of Fe(III) using square wave voltammetry and electrochemical impedance spectroscopy methods. <i>Biosensors and Bioelectronics</i> , 2013, 39, 31-36.	10.1	36
83	Synthesis and antibacterial activity of conjugates between norfloxacin and analogues of the siderophore vanchrobactin. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 295-302.	3.0	36
84	Heme-Delivering Proteins in Bacteria. <i>Handbook of Porphyrin Science</i> , 2013, , 191-222.	0.8	1
85	An antioxidant role for catecholate siderophores in <i>Salmonella</i> . <i>Biochemical Journal</i> , 2013, 454, 543-549.	3.7	49
86	Isotope-Assisted Screening for Iron-Containing Metabolites Reveals a High Degree of Diversity among Known and Unknown Siderophores Produced by <i>Trichoderma</i> spp. <i>Applied and Environmental Microbiology</i> , 2013, 79, 18-31.	3.1	81
88	Bisucaberin B, a Linear Hydroxamate Class Siderophore from the Marine Bacterium <i>Tenacibaculum mesophilum</i> . <i>Molecules</i> , 2013, 18, 3917-3926.	3.8	35
89	Turnerbactin, a Novel Triscatecholate Siderophore from the Shipworm Endosymbiont <i>Teredinibacter turnerae</i> T7901. <i>PLoS ONE</i> , 2013, 8, e76151.	2.5	55
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95	Citric Acid. , 2014, , .		62
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102	<i>Bordetella pertussis</i> FbpA Binds Both Unchelated Iron and Iron Siderophore Complexes. Biochemistry, 2014, 53, 3952-3960.	2.5	12
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120	Microbial Acceleration of Olivine Dissolution via Siderophore Production. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 118-122.	0.6	11
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124	Preparation of 3-benzoyloxy-2-pyridinone functional linkers: tools for the synthesis of 3,2-hydroxypyridinone (HOPO) and HOPO/hydroxamic acid chelators. <i>Tetrahedron</i> , 2015, 71, 9271-9281.	1.9	4
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129	Structure and Mechanism of the Siderophore-Interacting Protein from the Fuscachelin Gene Cluster of <i>Thermobifida fusca</i> . <i>Biochemistry</i> , 2015, 54, 3989-4000.	2.5	23
130	Bioprospects of Coastal Eubacteria. , 2015, , .		3
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133	Role of copper and iron in methane oxidation and bacterial biopolymer accumulation. <i>Engineering in Life Sciences</i> , 2015, 15, 387-399.	3.6	32
134	Prospects of host-associated microorganisms in fish and penaeids as probiotics with immunomodulatory functions. <i>Fish and Shellfish Immunology</i> , 2015, 45, 2-12.	3.6	178
135	Siderophores. , 2015, , .		9

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137	Synthesis and Pharmacokinetic Evaluation of Siderophore Biosynthesis Inhibitors for <i>Mycobacterium tuberculosis</i> . <i>Journal of Medicinal Chemistry</i> , 2015, 58, 5459-5475.	6.4	46
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151	Identification of Metallophores and Organic Ligands in the Chemosphere of the Marine Macroalga <i>Ulva</i> (Chlorophyta) and at Land-Sea Interfaces. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	25
152	Diversity and Metabolic Potentials of Subsurface Crustal Microorganisms from the Western Flank of the Mid-Atlantic Ridge. <i>Frontiers in Microbiology</i> , 2016, 7, 363.	3.5	37
153	Bacterial Modes of Action for Enhancing of Plant Growth. <i>Journal of Biotechnology & Biomaterials</i> , 2016, 6, .	0.3	11

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154	An Iron(III) Catalyst with Unusually Broad Substrate Scope in Regioselective Alkylation of Diols and Polyols. Chemistry - A European Journal, 2016, 22, 2481-2486.	3.3	46
155	Insights into the virulence-related genes of <i>Edwardsiella tarda</i> isolated from turbot in Europe: genetic homogeneity and evidence for vibrioferrin production. Journal of Fish Diseases, 2016, 39, 565-576.	1.9	11
156	Serobactins-mediated iron acquisition systems optimize competitive fitness of <i>Herbaspirillum seropedicae</i> inside rice plants. Environmental Microbiology, 2016, 18, 2523-2533.	3.8	17
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158	Variochelins, Lipopeptide Siderophores from <i>Variovorax boronicumulans</i> Discovered by Genome Mining. Journal of Natural Products, 2016, 79, 865-872.	3.0	21
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