

# Kirstin Scherlach

## List of Publications by Year in descending order

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85  
papers

6,405  
citations

71102

41  
h-index

69250

77  
g-index

105  
all docs

105  
docs citations

105  
times ranked

5650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intimate bacterial–fungal interaction triggers biosynthesis of archetypal polyketides in <i>Aspergillus nidulans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14558-14563.	7.1	607
2	Genomics-driven discovery of PKS-NRPS hybrid metabolites from <i>Aspergillus nidulans</i> . Nature Chemical Biology, 2007, 3, 213-217.	8.0	550
3	Triggering cryptic natural product biosynthesis in microorganisms. Organic and Biomolecular Chemistry, 2009, 7, 1753.	2.8	500
4	The chemistry and biology of cytochalasans. Natural Product Reports, 2010, 27, 869.	10.3	336
5	Bacteria-induced natural product formation in the fungus <i>Aspergillus nidulans</i> requires Saga/Ada-mediated histone acetylation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14282-14287.	7.1	322
6	Antimitotic Rhizoxin Derivatives from a Cultured Bacterial Endosymbiont of the Rice Pathogenic Fungus <i>Rhizopus microsporus</i> . Journal of the American Chemical Society, 2006, 128, 11529-11536.	13.7	153
7	Antibiotic-producing symbionts dynamically transition between plant pathogenicity and insect-defensive mutualism. Nature Communications, 2017, 8, 15172.	12.8	152
8	Activation of a Silent Fungal Polyketide Biosynthesis Pathway through Regulatory Cross Talk with a Cryptic Nonribosomal Peptide Synthetase Gene Cluster. Applied and Environmental Microbiology, 2010, 76, 8143-8149.	3.1	143
9	Discovery of aspoquinolones <sup>14</sup> C, prenylated quinoline-2-one alkaloids from <i>Aspergillus nidulans</i> , motivated by genome mining. Organic and Biomolecular Chemistry, 2006, 4, 3517-3520.	2.8	136
10	Analysis of the <i>Aspergillus fumigatus</i> Proteome Reveals Metabolic Changes and the Activation of the Pseurotin A Biosynthesis Gene Cluster in Response to Hypoxia. Journal of Proteome Research, 2011, 10, 2508-2524.	3.7	135
11	Mining and unearthing hidden biosynthetic potential. Nature Communications, 2021, 12, 3864.	12.8	134
12	Molecular Bacteria-Fungi Interactions: Effects on Environment, Food, and Medicine. Annual Review of Microbiology, 2013, 67, 375-397.	7.3	131
13	Bacterium Induces Cryptic Meroterpenoid Pathway in the Pathogenic Fungus <i>Aspergillus fumigatus</i> . ChemBioChem, 2013, 14, 938-942.	2.6	120
14	A Dedicated Glutathione <i>S</i> -Transferase Mediates Carbon–Sulfur Bond Formation in Gliotoxin Biosynthesis. Journal of the American Chemical Society, 2011, 133, 12322-12325.	13.7	118
15	Functionally Distinct Modules Operate Two Consecutive <sup>13</sup> C Double Bond Shifts in the Rhizoxin Polyketide Assembly Line. Angewandte Chemie - International Edition, 2010, 49, 1460-1464.	13.8	102
16	Botryorhodines <sup>14</sup> C, antifungal and cytotoxic depsidones from <i>Botryosphaeria rhodina</i> , an endophyte of the medicinal plant <i>Bidens pilosa</i> . Phytochemistry, 2010, 71, 110-116.	2.9	96
17	Biosynthesis of the Halogenated Mycotoxin Aspirochlorine in Koji Mold Involves a Cryptic Amino Acid Conversion. Angewandte Chemie - International Edition, 2014, 53, 13409-13413.	13.8	90
18	Multifactorial Induction of an Orphan PKS-NRPS Gene Cluster in <i>Aspergillus terreus</i> . Chemistry and Biology, 2011, 18, 198-209.	6.0	87

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19	An antifungal polyketide associated with horizontally acquired genes supports symbiont-mediated defense in <i>Lagria villosa</i> beetles. <i>Nature Communications</i> , 2018, 9, 2478.	12.8	86
20	Global Distribution and Evolution of a Toxinogenic <i>Burkholderia-Rhizopus</i> Symbiosis. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2982-2986.	3.1	83
21	Biosynthesis of the Respiratory Toxin Bongkrekic Acid in the Pathogenic Bacterium <i>Burkholderia gladioli</i> . <i>Chemistry and Biology</i> , 2012, 19, 1164-1174.	6.0	81
22	Mediators of mutualistic microbe-microbe interactions. <i>Natural Product Reports</i> , 2018, 35, 303-308.	10.3	77
23	Polyketide-Chain Branching by an Enzymatic Michael Addition. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5001-5004.	13.8	70
24	The Molecular Basis of Conjugated Polyene Biosynthesis in Phytopathogenic Bacteria. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7794-7798.	13.8	70
25	Chemical warfare between leafcutter ant symbionts and a co-evolved pathogen. <i>Nature Communications</i> , 2018, 9, 2208.	12.8	70
26	Symbiotic Cooperation in the Biosynthesis of a Phytotoxin. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9615-9618.	13.8	69
27	A ketosynthase homolog uses malonyl units to form esters in cervimycin biosynthesis. <i>Nature Chemical Biology</i> , 2012, 8, 154-161.	8.0	69
28	Aspernidine A and B, prenylated isoindolinone alkaloids from the model fungus <i>Aspergillus nidulans</i> . <i>Journal of Antibiotics</i> , 2010, 63, 375-377.	2.0	66
29	A cryptic PKS-NRPS gene locus in the plant commensal <i>Pseudomonas fluorescens</i> Pf-5 codes for the biosynthesis of an antimitotic rhizoxin complex. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2211-2213.	2.8	62
30	Biosynthesis of antifungal and antibacterial polyketides by <i>Burkholderia gladioli</i> in coculture with <i>Rhizopus microsporus</i> . <i>Mycoses</i> , 2014, 57, 48-55.	4.0	61
31	Activation of fungal silent gene clusters: A new avenue to drug discovery. , 2008, 66, 1-12.		59
32	Unexpected Bacterial Origin of the Antibiotic Icosalide: Two-Tailed Depsipeptide Assembly in Multifarious <i>Burkholderia</i> Symbionts. <i>ACS Chemical Biology</i> , 2018, 13, 2414-2420.	3.4	58
33	Epidithiodiketopiperazine Biosynthesis: A Four-Enzyme Cascade Converts Glutathione Conjugates into Transannular Disulfide Bridges. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11092-11095.	13.8	57
34	Imaging Mass Spectrometry and Genome Mining Reveal Highly Antifungal Virulence Factor of Mushroom Soft Rot Pathogen. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13173-13177.	13.8	56
35	Epidithiol Formation by an Unprecedented Twin Carbon-Sulfur Lyase in the Gliotoxin Pathway. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10064-10068.	13.8	56
36	Targeted induction of a silent fungal gene cluster encoding the bacteria-specific germination inhibitor fumigermin. <i>ELife</i> , 2020, 9, .	6.0	56

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37	Distinct Amino Acids of Histone H3 Control Secondary Metabolism in <i>Aspergillus nidulans</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 6102-6109.	3.1	52
38	Detection of antibiotics synthesized in microfluidic picolitre-droplets by various actinobacteria. <i>Scientific Reports</i> , 2018, 8, 13087.	3.3	52
39	Pyomelanin Formation in <i>Aspergillus fumigatus</i> Requires HmgX and the Transcriptional Activator HmgR but Is Dispensable for Virulence. <i>PLoS ONE</i> , 2011, 6, e26604.	2.5	50
40	Chemical Mediators at the Bacterial-Fungal Interface. <i>Annual Review of Microbiology</i> , 2020, 74, 267-290.	7.3	46
41	Differential expression of silent polyketide biosynthesis gene clusters in chemostat cultures of <i>Aspergillus nidulans</i> . <i>Journal of Biotechnology</i> , 2012, 160, 64-71.	3.8	44
42	Highly parallelized droplet cultivation and prioritization of antibiotic producers from natural microbial communities. <i>ELife</i> , 2021, 10, .	6.0	44
43	Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. <i>ELife</i> , 2018, 7, .	6.0	44
44	Cytotoxic Pheofungins from an Engineered Fungus Impaired in Posttranslational Protein Modification. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9843-9847.	13.8	42
45	The Boat-Shaped Polyketide Resistoflavin Results from Re-Facial Central Hydroxylation of the Discoid Metabolite Resistomycin. <i>Journal of the American Chemical Society</i> , 2006, 128, 14619-14624.	13.7	40
46	Transcriptome analysis of cyclic AMP-dependent protein kinase A-regulated genes reveals the production of the novel natural compound fumipyrrole by <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2015, 96, 148-162.	2.5	37
47	A functional link between hyphal maintenance and quorum sensing in <i>Candida albicans</i> . <i>Molecular Microbiology</i> , 2017, 103, 595-617.	2.5	35
48	Antifungal potential of secondary metabolites involved in the interaction between citrus pathogens. <i>Scientific Reports</i> , 2019, 9, 18647.	3.3	35
49	Two Types of Threonine-Tagged Lipopeptides Synergize in Host Colonization by Pathogenic <i>Burkholderia</i> Species. <i>ACS Chemical Biology</i> , 2018, 13, 1370-1379.	3.4	34
50	Biosynthesis and Mass Spectrometric Imaging of Tolaasin, the Virulence Factor of Brown Blotch Mushroom Disease. <i>ChemBioChem</i> , 2013, 14, 2439-2443.	2.6	33
51	Two Induced Fungal Polyketide Pathways Converge into Antiproliferative Spiroanthrones. <i>ChemBioChem</i> , 2011, 12, 1836-1839.	2.6	31
52	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11955-11959.	13.8	31
53	Proteome analysis of the farnesol-induced stress response in <i>Aspergillus nidulans</i> —The role of a putative dehydrin. <i>Journal of Proteomics</i> , 2012, 75, 4038-4049.	2.4	30
54	Lichen-like association of <i>Chlamydomonas reinhardtii</i> and <i>Aspergillus nidulans</i> protects algal cells from bacteria. <i>ISME Journal</i> , 2020, 14, 2794-2805.	9.8	30

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55	Toxin production by bacterial endosymbionts of a <i>Rhizopus microsporus</i> strain used for tempe/sufu processing. <i>International Journal of Food Microbiology</i> , 2010, 136, 368-371.	4.7	29
56	Genomics-driven discovery of a linear lipopeptide promoting host colonization by endofungal bacteria. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8345-8352.	2.8	29
57	Discovery of an Extended Austinoid Biosynthetic Pathway in <i>Aspergillus calidoustus</i> . <i>ACS Chemical Biology</i> , 2017, 12, 1227-1234.	3.4	27
58	Genomics-Driven Discovery of a Symbiont-Specific Cyclopeptide from Bacteria Residing in the Rice Seedling Blight Fungus. <i>ChemBioChem</i> , 2018, 19, 2167-2172.	2.6	27
59	Biosynthesis of the mitochondrial adenine nucleotide translocase (ATPase) inhibitor bongkrekic acid in <i>Burkholderia gladioli</i> . <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1520.	2.8	24
60	Gliotoxin Biosynthesis: Structure, Mechanism, and Metal Promiscuity of Carboxypeptidase Glij. <i>ACS Chemical Biology</i> , 2017, 12, 1874-1882.	3.4	24
61	Genome Mining Reveals Endopyrroles from a Nonribosomal Peptide Assembly Line Triggered in Fungal-Bacterial Symbiosis. <i>ACS Chemical Biology</i> , 2019, 14, 1811-1818.	3.4	24
62	Food preparation with mucoralean fungi: A potential biosafety issue?. <i>Fungal Biology</i> , 2016, 120, 393-401.	2.5	19
63	Enzymatic Amide Tailoring Promotes Retro-Aldol Amino Acid Conversion To Form the Antifungal Agent Spirochlorine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14051-14054.	13.8	17
64	Biosynthesis of Sinapigladioside, an Antifungal Isothiocyanate from <i>Burkholderia</i> Symbionts. <i>ChemBioChem</i> , 2021, 22, 1920-1924.	2.6	17
65	AoiQ Catalyzes Geminal Dichlorination of 1,3-Diketone Natural Products. <i>Journal of the American Chemical Society</i> , 2021, 143, 7267-7271.	13.7	16
66	Disruption of Membrane Integrity by the Bacterium-Derived Antifungal Jagaricin. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	15
67	Draft Genome Sequences of Fungus <i>Aspergillus calidoustus</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	13
68	Structural investigation of the lipopolysaccharide O-chain isolated from <i>Burkholderia fungorum</i> strain DSM 17061. <i>Carbohydrate Research</i> , 2016, 433, 31-35.	2.3	12
69	Reconstitution of Enzymatic Carbon-Sulfur Bond Formation Reveals Detoxification-Like Strategy in Fungal Toxin Biosynthesis. <i>ACS Chemical Biology</i> , 2018, 13, 2508-2512.	3.4	12
70	Multimodal Molecular Imaging and Identification of Bacterial Toxins Causing Mushroom Soft Rot and Cavity Disease. <i>ChemBioChem</i> , 2021, 22, 2901-2907.	2.6	11
71	Antiproliferative Effects of Ester- and Amide-Functionalized Rhizoxin Derivatives. <i>ChemMedChem</i> , 2011, 6, 1998-2001.	3.2	10
72	Food-Poisoning Bacteria Employ a Citrate Synthase and a Type-II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21535-21540.	13.8	10

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73	Nâ€Heterocyclization in Gliotoxin Biosynthesis is Catalyzed by a Distinct Cytochrome P450 Monooxygenase. <i>ChemBioChem</i> , 2021, 22, 336-339.	2.6	8
74	Photochemical oxazoleâ€nitrile conversion downstream of rhizoxin biosynthesis and its impact on antimetabolic activity. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5756.	2.8	7
75	Regioselective Dichlorination of a Non-Activated Aliphatic Carbon Atom and Phenolic Bismethylation by a Multifunctional Fungal Flavoenzyme. <i>Angewandte Chemie</i> , 2016, 128, 12134-12138.	2.0	6
76	Structural and Mechanistic Insights into CâˆS Bond Formation in Gliotoxin. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14188-14194.	13.8	6
77	Alternative Benzoxazole Assembly Discovered in Anaerobic Bacteria Provides Access to Privileged Heterocyclic Scaffold. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
78	Fungal Genome Mining and Activation of Silent Gene Clusters. , 2009, , 297-303.		4
79	Structural and Conformational Study of the Oâ€Antigenic Portion of the Lipopolysaccharide Isolated from <i>Burkholderia gladioli</i> pv. <i>cocovenenans</i> . <i>European Journal of Organic Chemistry</i> , 2016, 2016, 748-755.	2.4	3
80	Enzymatic Amide Tailoring Promotes Retroâ€Aldol Amino Acid Conversion To Form the Antifungal Agent Aspirochlorine. <i>Angewandte Chemie</i> , 2018, 130, 14247-14250.	2.0	3
81	Foodâ€Poisoning Bacteria Employ a Citrate Synthase and a Typeâ€II NRPS To Synthesize Bolaamphiphilic Lipopeptide Antibiotics**. <i>Angewandte Chemie</i> , 2020, 132, 21719-21724.	2.0	1
82	Strukturelle und mechanistische Einblicke in die Bildung der CâˆSâ€Bindungen in Gliotoxin. <i>Angewandte Chemie</i> , 2021, 133, 14307-14314.	2.0	1
83	Alternative Benzoxazole Assembly Discovered in Anaerobic Bacteria Provides Access to Privileged Heterocyclic Scaffold. <i>Angewandte Chemie</i> , 0, , .	2.0	1
84	Titelbild: Polyketide-Chain Branching by an Enzymatic Michael Addition ( <i>Angew. Chem.</i> 27/2009). <i>Angewandte Chemie</i> , 2009, 121, 4965-4965.	2.0	0
85	Cover Picture: Polyketide-Chain Branching by an Enzymatic Michael Addition ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq1 1 0.784314 rgBT /Over 13.8 0	13.8	0