

# Gerald Lackner

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,357  
citations

236925

25  
h-index

223800

46  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ectomycorrhizal fungi decompose soil organic matter using oxidative mechanisms adapted from saprotrophic ancestors. <i>New Phytologist</i> , 2016, 209, 1705-1719.	7.3	264
2	Insights on the Evolution of Mycoparasitism from the Genome of <i>Clonostachys rosea</i> . <i>Genome Biology and Evolution</i> , 2015, 7, 465-480.	2.5	150
3	Insights into the lifestyle of uncultured bacterial natural product factories associated with marine sponges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E347-E356.	7.1	114
4	Endofungal bacterium controls its host by an <i>hrp</i> type III secretion system. <i>ISME Journal</i> , 2011, 5, 252-261.	9.8	112
5	Active invasion of bacteria into living fungal cells. <i>ELife</i> , 2014, 3, e03007.	6.0	107
6	Evolution of an endofungal Lifestyle: Deductions from the <i>Burkholderia rhizoxinica</i> Genome. <i>BMC Genomics</i> , 2011, 12, 210.	2.8	102
7	Complete Genome Sequence of <i>Burkholderia rhizoxinica</i> , an Endosymbiont of <i>Rhizopus microsporus</i> . <i>Journal of Bacteriology</i> , 2011, 193, 783-784.	2.2	98
8	Analysis of the <i>Phlebiopsis gigantea</i> Genome, Transcriptome and Secretome Provides Insight into Its Pioneer Colonization Strategies of Wood. <i>PLoS Genetics</i> , 2014, 10, e1004759.	3.5	90
9	Biosynthesis of the Halogenated Mycotoxin Aspirochlorine in Koji Mold Involves a Cryptic Amino Acid Conversion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13409-13413.	13.8	90
10	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
11	Endofungal bacteria as producers of mycotoxins. <i>Trends in Microbiology</i> , 2009, 17, 570-576.	7.7	82
12	Genome mining reveals the evolutionary origin and biosynthetic potential of basidiomycete polyketide synthases. <i>Fungal Genetics and Biology</i> , 2012, 49, 996-1003.	2.1	71
13	Symbiotic Cooperation in the Biosynthesis of a Phytotoxin. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9615-9618.	13.8	69
14	Assembly of Melleolide Antibiotics Involves a Polyketide Synthase with Cross-Coupling Activity. <i>Chemistry and Biology</i> , 2013, 20, 1101-1106.	6.0	66
15	Biosynthesis of Pentangular Polyphenols: Deductions from the Benastatin and Griseorhodin Pathways. <i>Journal of the American Chemical Society</i> , 2007, 129, 9306-9312.	13.7	62
16	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
17	An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxin-Producing Bacteria in Their Fungal Host. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7476-7480.	13.8	50
18	Impact of Endofungal Bacteria on Infection Biology, Food Safety, and Drug Development. <i>PLoS Pathogens</i> , 2011, 7, e1002096.	4.7	46

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19	One Ring to Fight Them All: The Sulfazecin Story. <i>Cell Chemical Biology</i> , 2017, 24, 1-2.	5.2	38
20	Characterization of the <i>Suillus grevillei</i> Quinone Synthetase GreA Supports a Nonribosomal Code for Aromatic Keto Acids. <i>ChemBioChem</i> , 2012, 13, 1798-1804.	2.6	34
21	A Lanthipeptide-like N-Terminal Leader Region Guides Peptide Epimerization by Radical SAM Epimerases: Implications for RiPP Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12330-12333.	13.8	34
22	Injury-Triggered Blueing Reactions of <i>Psilocybe</i> - "Magic" Mushrooms. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1450-1454.	13.8	34
23	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
24	Functional and Phylogenetic Divergence of Fungal Adenylate-Forming Reductases. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6175-6183.	3.1	32
25	A Fivefold Parallelized Biosynthetic Process Secures Chlorination of <i>Armillaria mellea</i> (Honey) Tj ETQq1 1 0.784314.rgBT / Overlock 10 TF	3.1	31
26	Fungal peptide synthetases: an update on functions and specificity signatures. <i>Fungal Biology Reviews</i> , 2013, 27, 43-50.	4.7	27
27	A Highly Conserved Basidiomycete Peptide Synthetase Produces a Trimeric Hydroxamate Siderophore. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	27
28	Multi-genome analysis identifies functional and phylogenetic diversity of basidiomycete adenylate-forming reductases. <i>Fungal Genetics and Biology</i> , 2018, 112, 55-63.	2.1	26
29	Metabolic Pathway Rerouting in <i>Paraburkholderia rhizoxinica</i> Evolved Long-Overlooked Derivatives of Coenzyme F <sub>420</sub> . <i>ACS Chemical Biology</i> , 2019, 14, 2088-2094.	3.4	26
30	Bacteria-Induced production of the antibacterial sesquiterpene lagopodin B in <i>Coprinopsis cinerea</i> . <i>Molecular Microbiology</i> , 2019, 112, 605-619.	2.5	26
31	Bimodular Peptide Synthetase SidE Produces Fumarylalanine in the Human Pathogen <i>Aspergillus fumigatus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 6670-6676.	3.1	25
32	Structure elucidation of the syringafactin lipopeptides provides insight in the evolution of nonribosomal peptide synthetases. <i>Chemical Science</i> , 2019, 10, 10979-10990.	7.4	25
33	Bacterial Alkaloid Biosynthesis: Structural Diversity via a Minimalistic Nonribosomal Peptide Synthetase. <i>Cell Chemical Biology</i> , 2018, 25, 659-665.e9.	5.2	24
34	Precursor-Directed Diversification of Cyclic Tetrapeptidic Pseudoxylallemycins. <i>ChemBioChem</i> , 2018, 19, 2307-2311.	2.6	20
35	Characterization of <i>Burkholderia rhizoxinica</i> and <i>B. endofungorum</i> Isolated from Clinical Specimens. <i>PLoS ONE</i> , 2011, 6, e15731.	2.5	20
36	Structure, Genetics and Function of an Exopolysaccharide Produced by a Bacterium Living within Fungal Hyphae. <i>ChemBioChem</i> , 2015, 16, 387-392.	2.6	18

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37	Activity of Î±-Aminoadipate Reductase Depends on the N-Terminally Extending Domain. <i>ChemBioChem</i> , 2015, 16, 1426-1430.	2.6	14
38	Injury-Triggered Blueing Reactions of <i>Psilocybe</i> - "Magic" Mushrooms. <i>Angewandte Chemie</i> , 2020, 132, 1466-1470.	2.0	14
39	An Unusual Galactofuranose Lipopolysaccharide That Ensures the Intracellular Survival of Toxin-Producing Bacteria in Their Fungal Host. <i>Angewandte Chemie</i> , 2010, 122, 7638-7642.	2.0	13
40	Structural characterization of two lipopolysaccharide O-antigens produced by the endofungal bacterium <i>Burkholderia</i> sp. HKI-402 (B4). <i>Carbohydrate Research</i> , 2012, 347, 95-98.	2.3	13
41	Structure elucidation of the redox cofactor mycofactocin reveals oligo-glycosylation by MftF. <i>Chemical Science</i> , 2020, 11, 5182-5190.	7.4	13
42	Redox Coenzyme F <sub>420</sub> Biosynthesis in <i>Thermomicrobia</i> Involves Reduction by Stand-Alone Nitroreductase Superfamily Enzymes. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	12
43	Genome Sequence of Mushroom Soft-Rot Pathogen <i>Janthinobacterium agaricidamnosum</i> . <i>Genome Announcements</i> , 2015, 3, .	0.8	10
44	Genetic Engineering Activates Biosynthesis of Aromatic Fumaric Acid Amides in the Human Pathogen <i>Aspergillus fumigatus</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 1594-1600.	3.1	10
45	A Lanthipeptide-Like N-Terminal Leader Region Guides Peptide Epimerization by Radical SAM Epimerases: Implications for RiPP Evolution. <i>Angewandte Chemie</i> , 2016, 128, 12518-12521.	2.0	9
46	Comparative Genomic and Metabolic Analysis of <i>Streptomyces</i> sp. RB110 Morphotypes Illuminates Genomic Rearrangements and Formation of a New 46-Membered Antimicrobial Macrolide. <i>ACS Chemical Biology</i> , 2021, 16, 1482-1492.	3.4	4
47	Impact of Oxygen Supply and Scale Up on <i>Mycobacterium smegmatis</i> Cultivation and Mycofactocin Formation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 593781.	4.1	3
48	Diversification by CofC and Control by CofD Govern Biosynthesis and Evolution of Coenzyme F <sub>420</sub> and Its Derivative 3PG-F <sub>420</sub> . <i>MBio</i> , 2022, 13, e0350121.	4.1	2