

# Lena Gerwick

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

4,869  
citations

29  
h-index

69  
g-index

75  
ext. papers

6,205  
ext. citations

6.8  
avg, IF

4.96  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 71 | Natural Products with Potential to Treat RNA Virus Pathogens Including SARS-CoV-2. <i>Journal of Natural Products</i> , <b>2021</b> , 84, 161-182   | 4.9  | 15        |
| 70 | A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. <i>Marine Drugs</i> , <b>2021</b> , 19,   | 6    | 6         |
| 69 | A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , <b>2021</b> , 17, 363-368   | 11.7 | 32        |
| 68 | Portobelamides A and B and Caciqueamide, Cytotoxic Peptidic Natural Products from a sp. Marine Cyanobacterium. <i>Journal of Natural Products</i> , <b>2021</b> , 84, 2081-2093                           | 4.9  |           |
| 67 | An anti-inflammatory isoflavone from soybean inoculated with a marine fungus C23-3. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2020</b> , 84, 1546-1553                                       | 2.1  | 3         |
| 66 | Pagoamide A, a Cyclic Depsipeptide Isolated from a Cultured Marine Chlorophyte, sp., Using MS/MS-Based Molecular Networking. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 617-625               | 4.9  | 10        |
| 65 | Heterologous Expression of Cryptomaldamide in a Cyanobacterial Host. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 3364-3376  | 5.7  | 10        |
| 64 | Cytotoxic Microcolin Lipopeptides from the Marine Cyanobacterium. <i>Journal of Natural Products</i> , <b>2019</b> , 82, 2608-2619  | 4.9  | 7         |
| 63 | Nature's Combinatorial Biosynthesis Produces Vatiamides A-F. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9027-9031   | 16.4 | 18        |
| 62 | Nature's Combinatorial Biosynthesis Produces Vatiamides A-F. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9125-9129  | 9.6  | 2         |
| 61 | MetaMiner: A Scalable Peptidogenomics Approach for Discovery of Ribosomal Peptide Natural Products with Blind Modifications from Microbial Communities. <i>Cell Systems</i> , <b>2019</b> , 9, 600-608.e4 | 10.6 | 26        |
| 60 | Samholides, Swinholide-Related Metabolites from a Marine Cyanobacterium cf. Phormidium sp. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 3034-3046  | 4.2  | 7         |
| 59 | Bastimolide B, an Antimalarial 24-Membered Marine Macrolide Possessing a tert-Butyl Group. <i>Journal of Natural Products</i> , <b>2018</b> , 81, 211-215   | 4.9  | 15        |
| 58 | Biosynthesis of t-Butyl in Apratoxin A: Functional Analysis and Architecture of a PKS Loading Module. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1640-1650   | 4.9  | 15        |
| 57 | Collection, Culturing, and Genome Analyses of Tropical Marine Filamentous Benthic Cyanobacteria. <i>Methods in Enzymology</i> , <b>2018</b> , 604, 3-43   | 1.7  | 6         |
| 56 | Marine Natural Product Honaucin A Attenuates Inflammation by Activating the Nrf2-ARE Pathway. <i>Journal of Natural Products</i> , <b>2018</b> , 81, 506-514  | 4.9  | 16        |
| 55 | Ketoreductase Domain Dysfunction Expands Chemodiversity: Malyngamide Biosynthesis in the Cyanobacterium <i>Okeania hirsuta</i> . <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 3385-3395                | 4.9  | 12        |

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|----|---|------|------|
| 54 | Comparative genomics uncovers the prolific and distinctive metabolic potential of the cyanobacterial genus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3198-3203 | 11.5 | 47   |
| 53 | A Maldiiisotopic Approach to Discover Natural Products: Cryptomaldamide, a Hybrid Tripeptide from the Marine Cyanobacterium <i>Moorea producens</i> . <i>Journal of Natural Products</i> , <b>2017</b> , 80, 1514-1521            | 4.9  | 18   |
| 52 | A Mononuclear Iron-Dependent Methyltransferase Catalyzes Initial Steps in Assembly of the Apratoxin A Polyketide Starter Unit. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 3039-3048  | 4.9  | 17   |
| 51 | Development of a Potent Inhibitor of the Plasmodium Proteasome with Reduced Mammalian Toxicity. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 6721-6732   | 8.3  | 46   |
| 50 | Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae. <i>ELife</i> , <b>2017</b> , 6,   | 8.9  | 26   |
| 49 | Anatomy of the Branching enzyme of polyketide biosynthesis and its interaction with an acyl-ACP substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10316-21   | 11.5 | 25   |
| 48 | The Phormidolide Biosynthetic Gene Cluster: A trans-AT PKS Pathway Encoding a Toxic Macrocylic Polyketide. <i>ChemBioChem</i> , <b>2016</b> , 17, 164-73  | 3.8  | 29   |
| 47 | Unique marine derived cyanobacterial biosynthetic genes for chemical diversity. <i>Natural Product Reports</i> , <b>2016</b> , 33, 348-64   | 15.1 | 36   |
| 46 | Integrating mass spectrometry and genomics for cyanobacterial metabolite discovery. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2016</b> , 43, 313-24  | 4.2  | 15   |
| 45 | A novel uncultured heterotrophic bacterial associate of the cyanobacterium <i>Moorea producens</i> JHB. <i>BMC Microbiology</i> , <b>2016</b> , 16, 198   | 4.5  | 10   |
| 44 | Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 828-837  | 44.5 | 1566 |
| 43 | Isolation of Polycavernoside D from a Marine Cyanobacterium. <i>Environmental Science and Technology Letters</i> , <b>2015</b> , 2, 166-170   | 11   | 16   |
| 42 | Combining Mass Spectrometric Metabolic Profiling with Genomic Analysis: A Powerful Approach for Discovering Natural Products from Cyanobacteria. <i>Journal of Natural Products</i> , <b>2015</b> , 78, 1671-82                   | 4.9  | 106  |
| 41 | Minimum Information about a Biosynthetic Gene cluster. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 625-31  | 11.7 | 498  |
| 40 | Bastimolide A, a Potent Antimalarial Polyhydroxy Macrolide from the Marine Cyanobacterium <i>Okeania hirsuta</i> . <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 7849-55  | 4.2  | 54   |
| 39 | Expanding the Described Metabolome of the Marine Cyanobacterium <i>Moorea producens</i> JHB through Orthogonal Natural Products Workflows. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133297   | 3.7  | 23   |
| 38 | Combined LC-MS/MS and Molecular Networking Approach Reveals New Cyanotoxins from the 2014 Cyanobacterial Bloom in Green Lake, Seattle. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 14301-10                 | 10.3 | 39   |
| 37 | Spongiosine production by a <i>Vibrio harveyi</i> strain associated with the sponge <i>Tectitethya crypta</i> . <i>Journal of Natural Products</i> , <b>2015</b> , 78, 493-9  | 4.9  | 24   |

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|----|---|------|-----|
| 36 | Direct detection of fungal siderophores on bats with white-nose syndrome via fluorescence microscopy-guided ambient ionization mass spectrometry. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119668  | 3.7  | 23  |
| 35 | Characterization of cyanobacterial hydrocarbon composition and distribution of biosynthetic pathways. <i>PLoS ONE</i> , <b>2014</b> , 9, e85140   | 3.7  | 114 |
| 34 | Real-time metabolomics on living microorganisms using ambient electrospray ionization flow-probe. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 7014-8  | 7.8  | 91  |
| 33 | Interkingdom signaling by structurally related cyanobacterial and algal secondary metabolites. <i>Phytochemistry Reviews</i> , <b>2013</b> , 12, 459-465  | 7.7  | 7   |
| 32 | Examination of the mode of action of the almiramide family of natural products against the kinetoplastid parasite <i>Trypanosoma brucei</i> . <i>Journal of Natural Products</i> , <b>2013</b> , 76, 630-41   | 4.9  | 30  |
| 31 | Polyketide genes in the marine sponge <i>Plakortis simplex</i> : a new group of mono-modular type I polyketide synthases from sponge symbionts. <i>Environmental Microbiology Reports</i> , <b>2013</b> , 5, 809-18   | 3.7  | 19  |
| 30 | Evaluation of <i>Streptomyces coelicolor</i> A3(2) as a heterologous expression host for the cyanobacterial protein kinase C activator lyngbyatoxin A. <i>FEBS Journal</i> , <b>2012</b> , 279, 1243-51   | 5.7  | 27  |
| 29 | Structural basis of functional group activation by sulfotransferases in complex metabolic pathways. <i>ACS Chemical Biology</i> , <b>2012</b> , 7, 1994-2003  | 4.9  | 27  |
| 28 | Differential expression and intrachromosomal evolution of the <i>sghC1q</i> genes in zebrafish ( <i>Danio rerio</i> ). <i>Developmental and Comparative Immunology</i> , <b>2012</b> , 36, 31-8   | 3.2  | 9   |
| 27 | Molecular identification and expression analysis of two distinct BPI/LBPs (bactericidal permeability-increasing protein/LPS-binding protein) from rock bream, <i>Oplegnathus fasciatus</i> . <i>Fish and Shellfish Immunology</i> , <b>2012</b> , 33, 75-84 | 4.3  | 17  |
| 26 | Coibacins A-D, antileishmanial marine cyanobacterial polyketides with intriguing biosynthetic origins. <i>Organic Letters</i> , <b>2012</b> , 14, 3878-81   | 6.2  | 42  |
| 25 | Structure and activity of DmmA, a marine haloalkane dehalogenase. <i>Protein Science</i> , <b>2012</b> , 21, 239-48   | 6.3  | 29  |
| 24 | Honaucins A-C, potent inhibitors of inflammation and bacterial quorum sensing: synthetic derivatives and structure-activity relationships. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 589-98  |      | 79  |
| 23 | Effect of xanthopterin and isoxanthopterin on nitric oxide production by a RAW264.7 cell line. <i>FASEB Journal</i> , <b>2012</b> , 26, 797.9   | 0.9  |     |
| 22 | Malyngamide 2, an oxidized lipopeptide with nitric oxide inhibiting activity from a Papua New Guinea marine cyanobacterium. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 95-8   | 4.9  | 57  |
| 21 | Phylogeny-guided isolation of ethyl tumonoate A from the marine cyanobacterium cf. <i>Oscillatoria margaritifera</i> . <i>Journal of Natural Products</i> , <b>2011</b> , 74, 1737-43   | 4.9  | 19  |
| 20 | Single cell genome amplification accelerates identification of the apratoxin biosynthetic pathway from a complex microbial assemblage. <i>PLoS ONE</i> , <b>2011</b> , 6, e18565  | 3.7  | 117 |
| 19 | Genomic insights into the physiology and ecology of the marine filamentous cyanobacterium <i>Lyngbya majuscula</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8815-20                    | 11.5 | 90  |

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|----|---|------|-----|
| 18 | Significant natural product biosynthetic potential of actinorhizal symbionts of the genus frankia, as revealed by comparative genomic and proteomic analyses. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 3617-25     | 4.8  | 81  |
| 17 | The C1q domain containing proteins: Where do they come from and what do they do?. <i>Developmental and Comparative Immunology</i> , <b>2010</b> , 34, 785-90  | 3.2  | 75  |
| 16 | Marine natural product drug discovery: Leads for treatment of inflammation, cancer, infections, and neurological disorders. <i>Immunopharmacology and Immunotoxicology</i> , <b>2010</b> , 32, 228-37                                       | 3.2  | 98  |
| 15 | The unique mechanistic transformations involved in the biosynthesis of modular natural products from marine cyanobacteria. <i>Natural Product Reports</i> , <b>2010</b> , 27, 1048-65   | 15.1 | 93  |
| 14 | Selective MyD88-dependent pathway inhibition by the cyanobacterial natural product malyngamide F acetate. <i>European Journal of Pharmacology</i> , <b>2010</b> , 629, 140-6  | 5.3  | 42  |
| 13 | Metamorphic enzyme assembly in polyketide diversification. <i>Nature</i> , <b>2009</b> , 459, 731-5   | 50.4 | 146 |
| 12 | Polyketide decarboxylative chain termination preceded by o-sulfonation in curacin a biosynthesis. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16033-5  | 16.4 | 77  |
| 11 | Viridamides A and B, lipodepsipeptides with antiprotozoal activity from the marine cyanobacterium <i>Oscillatoria nigro-viridis</i> . <i>Journal of Natural Products</i> , <b>2008</b> , 71, 1544-50  | 4.9  | 95  |
| 10 | Giant Marine Cyanobacteria Produce Exciting Potential Pharmaceuticals. <i>Microbe Magazine</i> , <b>2008</b> , 3, 277-284   |      | 34  |
| 9  | Transcriptional studies of a novel family of short C1q domain proteins in zebrafish. <i>FASEB Journal</i> , <b>2008</b> , 22, 558-558   | 0.9  |     |
| 8  | Development of in vitro and in vivo anti-inflammatory assays for testing cyanobacterial marine natural products. <i>FASEB Journal</i> , <b>2008</b> , 22, 537-537   | 0.9  |     |
| 7  | Gene transcript changes in individual rainbow trout livers following an inflammatory stimulus. <i>Fish and Shellfish Immunology</i> , <b>2007</b> , 22, 157-71  | 4.3  | 119 |
| 6  | Intracranial injections induce local transcription of a gene encoding precerebellin-like protein. <i>Fish Physiology and Biochemistry</i> , <b>2005</b> , 31, 363-372   | 2.7  | 7   |
| 5  | Molecular cloning and characterization of rainbow trout ( <i>Oncorhynchus mykiss</i> ) CCAAT/enhancer binding protein beta. <i>Immunogenetics</i> , <b>2003</b> , 55, 253-61  | 3.2  | 11  |
| 4  | The acute phase response and innate immunity of fish. <i>Developmental and Comparative Immunology</i> , <b>2001</b> , 25, 725-43  | 3.2  | 331 |
| 3  | A precerebellin-like protein is part of the acute phase response in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Developmental and Comparative Immunology</i> , <b>2000</b> , 24, 597-607   | 3.2  | 39  |
| 2  | Modulation of stress hormones in rainbow trout by means of anesthesia, sensory deprivation and receptor blockade. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>1999</b> , 124, 329-34 | 2.6  | 26  |
| 1  | Heterologous expression of cryptomaldamide in a cyanobacterial host   |      | 1   |

