

# Large-Scale Metabolomics Reveals a Complex Response Epigenetic Perturbation

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Multicomponent Analysis of the Differential Induction of Secondary Metabolite Profiles in Fungal Endophytes. <i>Molecules</i> , 2016, 21, 234.	1.7	47
3	Modern mass spectrometry for synthetic biology and structure-based discovery of natural products. <i>Natural Product Reports</i> , 2016, 33, 942-950.	5.2	52
4	Awakening of Fungal Secondary Metabolite Gene Clusters. <i>Fungal Biology</i> , 2016, , 253-273.	0.3	21
6	Regulation and Role of Fungal Secondary Metabolites. <i>Annual Review of Genetics</i> , 2016, 50, 371-392.	3.2	299
7	Biologically Active Secondary Metabolites from the Fungi. <i>Microbiology Spectrum</i> , 2016, 4, .	1.2	219
8	New Aspercryptins, Lipopeptide Natural Products, Revealed by HDAC Inhibition in <i>Aspergillus nidulans</i> . <i>ACS Chemical Biology</i> , 2016, 11, 2117-2123.	1.6	56
9	Resistance Gene-Guided Genome Mining: Serial Promoter Exchanges in <i>Aspergillus nidulans</i> Reveal the Biosynthetic Pathway for Fellutamide B, a Proteasome Inhibitor. <i>ACS Chemical Biology</i> , 2016, 11, 2275-2284.	1.6	105
10	Polyketide Production of Pestaloficiols and Macrodiolide Ficiolides Revealed by Manipulations of Epigenetic Regulators in an Endophytic Fungus. <i>Organic Letters</i> , 2016, 18, 1832-1835.	2.4	68
11	Epigenetic stimulation of polyketide production in <i>Chaetomium cancroideum</i> by an NAD <sup>+</sup> -dependent HDAC inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 646-651.	1.5	46
12	Metabolic profiling as a tool for prioritizing antimicrobial compounds. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 299-312.	1.4	34
13	An epigenetic modifier induces production of (10 <sup>6</sup> S)-verruculide B, an inhibitor of protein tyrosine phosphatases by <i>Phoma</i> sp. nov. LG0217, a fungal endophyte of <i>Parkinsonia microphylla</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1860-1866.	1.4	37
14	Metabolomics for the masses: The future of metabolomics in a personalized world. <i>European Journal of Molecular and Clinical Medicine</i> , 2017, 3, 294.	0.5	99
15	A scalable platform to identify fungal secondary metabolites and their gene clusters. <i>Nature Chemical Biology</i> , 2017, 13, 895-901.	3.9	154
16	Epigenetic Modulation of Endophytic <i>Eupenicillium</i> sp. LG41 by a Histone Deacetylase Inhibitor for Production of Decalin-Containing Compounds. <i>Journal of Natural Products</i> , 2017, 80, 983-988.	1.5	61
17	<i>Aspergilli</i> : Models for systems biology in filamentous fungi. <i>Current Opinion in Systems Biology</i> , 2017, 6, 67-73.	1.3	20
18	Genetic Manipulation of the COP9 Signalosome Subunit PfCsnE Leads to the Discovery of Pestaloficins in <i>Pestalotiopsis fici</i> . <i>Organic Letters</i> , 2017, 19, 4700-4703.	2.4	29
19	Revitalization of a Forward Genetic Screen Identifies Three New Regulators of Fungal Secondary Metabolism in the Genus <i>Aspergillus</i> . <i>MBio</i> , 2017, 8, .	1.8	47
20	Comparative mass spectrometry-based metabolomics strategies for the investigation of microbial secondary metabolites. <i>Natural Product Reports</i> , 2017, 34, 6-24.	5.2	122

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21	Biologically Active Secondary Metabolites from the Fungi. , 0, , 1087-1119.		25
22	NAD <sup>+</sup> -dependent HDAC inhibitor stimulates <i>Monascus</i> pigment production but inhibit citrinin. <i>AMB Express</i> , 2017, 7, 166.	1.4	18
23	Future directions for the discovery of antibiotics from actinomycete bacteria. <i>Emerging Topics in Life Sciences</i> , 2017, 1, 1-12.	1.1	20
24	Epigenetic modification in histone deacetylase deletion strain of <i>Calcarisporium arbuscula</i> leads to diverse diterpenoids. <i>Acta Pharmaceutica Sinica B</i> , 2018, 8, 687-697.	5.7	21
25	From genomics to metabolomics, moving toward an integrated strategy for the discovery of fungal secondary metabolites. <i>Natural Product Reports</i> , 2018, 35, 147-173.	5.2	132
26	Modulation of polyketide biosynthetic pathway of the endophytic fungus, <i>Anteaglonium</i> sp. FLO768, by copper (II) and anacardic acid. <i>Phytochemistry Letters</i> , 2018, 28, 157-163.	0.6	17
27	Hybrid Transcription Factor Engineering Activates the Silent Secondary Metabolite Gene Cluster for (+)-Asperlin in <i>Aspergillus nidulans</i> . <i>ACS Chemical Biology</i> , 2018, 13, 3193-3205.	1.6	35
28	Response of Secondary Metabolism of Hypogean Actinobacterial Genera to Chemical and Biological Stimuli. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	26
29	The epigenetic reader SntB regulates secondary metabolism, development and global histone modifications in <i>Aspergillus flavus</i> . <i>Fungal Genetics and Biology</i> , 2018, 120, 9-18.	0.9	77
30	Exploration of Fungal Metabolic Interactions Using Imaging Mass Spectrometry on Nanostructured Silicon. <i>Journal of Natural Products</i> , 2018, 81, 1527-1533.	1.5	14
31	Natural products from thioester reductase containing biosynthetic pathways. <i>Natural Product Reports</i> , 2018, 35, 847-878.	5.2	60
32	Fathoming <i>Aspergillus oryzae</i> metabolomes in formulated growth matrices. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 35-49.	5.1	4
33	Chromatin-dependent regulation of secondary metabolite biosynthesis in fungi: is the picture complete?. <i>FEMS Microbiology Reviews</i> , 2019, 43, 591-607.	3.9	56
34	A metabolomics-guided approach to discover <i>Fusarium graminearum</i> metabolites after removal of a repressive histone modification. <i>Fungal Genetics and Biology</i> , 2019, 132, 103256.	0.9	30
35	Epigenetic modification enhances ergot alkaloid production of <i>Claviceps purpurea</i> . <i>Biotechnology Letters</i> , 2019, 41, 1439-1449.	1.1	7
36	Carbohydrate, glutathione, and polyamine metabolism are central to <i>Aspergillus flavus</i> oxidative stress responses over time. <i>BMC Microbiology</i> , 2019, 19, 209.	1.3	18
37	The HosA Histone Deacetylase Regulates Aflatoxin Biosynthesis Through Direct Regulation of Aflatoxin Cluster Genes. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 1210-1228.	1.4	42
38	On top of biosynthetic gene clusters: How epigenetic machinery influences secondary metabolism in fungi. <i>Biotechnology Advances</i> , 2019, 37, 107345.	6.0	122

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39	How Histone Deacetylase Inhibitors Alter the Secondary Metabolites of <i>Botryosphaeria mamane</i> , an Endophytic Fungus Isolated from <i>Bixa orellana</i> . <i>Chemistry and Biodiversity</i> , 2019, 16, e1800485.	1.0	21
40	Fungal secondary metabolism: regulation, function and drug discovery. <i>Nature Reviews Microbiology</i> , 2019, 17, 167-180.	13.6	804
41	Strategies for Engineering Natural Product Biosynthesis in Fungi. <i>Trends in Biotechnology</i> , 2019, 37, 416-427.	4.9	65
42	Fungal oxylipins direct programmed developmental switches in filamentous fungi. <i>Nature Communications</i> , 2020, 11, 5158.	5.8	37
43	An epigenetic modifier induces production of 3-(4-oxopyrano)-chromen-2-ones in <i>Aspergillus</i> sp. AST0006, an endophytic fungus of <i>Astragalus lentiginosus</i> . <i>Tetrahedron</i> , 2020, 76, 131525.	1.0	8
44	Rice-induced secondary metabolite gene expression in <i>Aspergillus nidulans</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 1109-1116.	1.4	2
45	Ecology and genomics of Actinobacteria: new concepts for natural product discovery. <i>Nature Reviews Microbiology</i> , 2020, 18, 546-558.	13.6	188
46	Natural products development under epigenetic modulation in fungi. <i>Phytochemistry Reviews</i> , 2020, 19, 1323-1340.	3.1	14
47	RcLS2F – A Novel Fungal Class 1 KDAC Co-repressor Complex in <i>Aspergillus nidulans</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 43.	1.5	15
48	Chemical Activation of Natural Product Biosynthesis in Filamentous Fungi. , 2020, , 475-486.		0
49	Epigenetic modulation of secondary metabolite profiles in <i>Aspergillus calidoustus</i> and <i>Aspergillus westerdijkiae</i> through histone deacetylase (HDAC) inhibition by vorinostat. <i>Journal of Antibiotics</i> , 2020, 73, 410-413.	1.0	16
50	Identification of Secondary Metabolites from <i>Aspergillus pachycristatus</i> by Untargeted UPLC-ESI-HRMS/MS and Genome Mining. <i>Molecules</i> , 2020, 25, 913.	1.7	4
51	Fungal natural products galaxy: Biochemistry and molecular genetics toward blockbuster drugs discovery. <i>Advances in Genetics</i> , 2021, 107, 193-284.	0.8	13
52	Metabolomic approaches for the determination of metabolites from pathogenic microorganisms: A review. <i>Food Research International</i> , 2021, 140, 110042.	2.9	35
53	Biological potential of bioactive metabolites derived from fungal endophytes associated with medicinal plants. <i>Mycological Progress</i> , 2021, 20, 577-594.	0.5	32
54	Fungal Lysine Deacetylases in Virulence, Resistance, and Production of Small Bioactive Compounds. <i>Genes</i> , 2021, 12, 1470.	1.0	5
56	Needles in haystacks: reevaluating old paradigms for the discovery of bacterial secondary metabolites. <i>Natural Product Reports</i> , 2021, 38, 2083-2099.	5.2	14
57	Synthesis and Regulation of Fungal Secondary Metabolites. <i>Microorganisms for Sustainability</i> , 2019, , 25-52.	0.4	6

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59	Comoclathrin, a novel potent skin-whitening agent produced by endophytic Comoclathris strains associated with Andalusia desert plants. <i>Scientific Reports</i> , 2022, 12, 1649.	1.6	4
60	Epigenetic Activation of Silent Biosynthetic Gene Clusters in Endophytic Fungi Using Small Molecular Modifiers. <i>Frontiers in Microbiology</i> , 2022, 13, 815008.	1.5	13
69	Challenges in Metabolomics-Based Tests, Biomarkers Revealed by Metabolomic Analysis, and the Promise of the Application of Metabolomics in Precision Medicine. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5213.	1.8	30
70	Epigenetic Strategies to Discover Novel Fungal Secondary Metabolites. <i>Journal of Biomedical Research &amp; Environmental Sciences</i> , 2022, 3, 246-263.	0.1	1
71	The <i>Penicillium brasilianum</i> Histone Deacetylase Clr3 Regulates Secondary Metabolite Production and Tolerance to Oxidative Stress. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 514.	1.5	2
72	Targeted Metabolomics Using LC-MS in <i>Neurospora crassa</i> . <i>Current Protocols</i> , 2022, 2, .	1.3	0
73	Post-translational modifications drive secondary metabolite biosynthesis in <i>Aspergillus</i> : a review. <i>Environmental Microbiology</i> , 2022, 24, 2857-2881.	1.8	17
74	Transcriptional Activation of Biosynthetic Gene Clusters in Filamentous Fungi. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	14
75	The SWC4 subunit of the SWR1 chromatin remodeling complex is involved in varying virulence of <i>Metarhizium brunneum</i> isolates offering role of epigenetic regulation of pathogenicity. <i>Virulence</i> , 2022, 13, 1252-1269.	1.8	5
76	Potential antifungal targets based on histones post-translational modifications against invasive aspergillosis. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
77	How to Completely Squeeze a Fungus—Advanced Genome Mining Tools for Novel Bioactive Substances. <i>Pharmaceutics</i> , 2022, 14, 1837.	2.0	9
78	The KdmB-EcoA-RpdA-SntB chromatin complex binds regulatory genes and coordinates fungal development with mycotoxin synthesis. <i>Nucleic Acids Research</i> , 2022, 50, 9797-9813.	6.5	12
79	Application of Metabolomics in Fungal Research. <i>Molecules</i> , 2022, 27, 7365.	1.7	12
80	Recent Advances in Search of Bioactive Secondary Metabolites from Fungi Triggered by Chemical Epigenetic Modifiers. <i>Journal of Fungi (Basel, Switzerland)</i> , 2023, 9, 172.	1.5	11
81	Correlative metabologenomics of 110 fungi reveals metabolite-gene cluster pairs. <i>Nature Chemical Biology</i> , 2023, 19, 846-854.	3.9	17
82	Endophytic fungi mediates production of bioactive secondary metabolites via modulation of genes involved in key metabolic pathways and their contribution in different biotechnological sector. <i>3 Biotech</i> , 2023, 13, .	1.1	5
87	Genetic, Epigenetic, and Physicochemical Strategies to Improve the Pharmacological Potential of Fungal Endophytes. <i>Fungal Biology</i> , 2024, , 259-278.	0.3	0
90	Epigenetic Regulation of Fungal Secondary Metabolites for the Enhancement of Therapeutically Active Compounds. , 2024, , 605-632.		0