

Victoriano Garre

List of Publications by Year in descending order

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84
papers

2,757
citations

186265
28
h-index

206112
48
g-index

90
all docs

90
docs citations

90
times ranked

1997
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel production from biomass of an oleaginous fungus. <i>Biochemical Engineering Journal</i> , 2009, 48, 22-27.	3.6	261
2	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	3.9	175
3	Distinct white collar-1 genes control specific light responses in <i>Mucor circinelloides</i> . <i>Molecular Microbiology</i> , 2006, 61, 1023-1037.	2.5	109
4	Direct Transformation of Fungal Biomass from Submerged Cultures into Biodiesel. <i>Energy & Fuels</i> , 2010, 24, 3173-3178.	5.1	94
5	Malic enzyme activity is not the only bottleneck for lipid accumulation in the oleaginous fungus <i>Mucor circinelloides</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3063-3072.	3.6	93
6	Role of the White Collar 1 Photoreceptor in Carotenogenesis, UV Resistance, Hydrophobicity, and Virulence of <i>Fusarium oxysporum</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1227-1230.	3.4	91
7	Early Diverging Fungus <i>Mucor circinelloides</i> Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. <i>Current Biology</i> , 2019, 29, 3791-3802.e6.	3.9	77
8	Photobiology in the Zygomycota: Multiple photoreceptor genes for complex responses to light. <i>Fungal Genetics and Biology</i> , 2010, 47, 893-899.	2.1	76
9	A negative regulator of light-inducible carotenogenesis in <i>Mucor circinelloides</i> . <i>Molecular Genetics and Genomics</i> , 2001, 266, 463-470.	2.1	75
10	Comparison of Biochemical Activities between High and Low Lipid-Producing Strains of <i>Mucor circinelloides</i> : An Explanation for the High Oleaginity of Strain WJ11. <i>PLoS ONE</i> , 2015, 10, e0128396.	2.5	66
11	High reliability transformation of the basal fungus <i>Mucor circinelloides</i> by electroporation. <i>Journal of Microbiological Methods</i> , 2011, 84, 442-446.	1.6	62
12	Cloning, Characterization, and Targeted Disruption of <i>cpcat1</i> , Coding for an in Planta Secreted Catalase of <i>Claviceps purpurea</i> . <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 772-783.	2.6	58
13	A Non-canonical RNA Silencing Pathway Promotes mRNA Degradation in Basal Fungi. <i>PLoS Genetics</i> , 2015, 11, e1005168.	3.5	57
14	Light induction of the carotenoid biosynthesis pathway in <i>Blakeslea trispora</i> . <i>Fungal Genetics and Biology</i> , 2005, 42, 141-153.	2.1	54
15	Secretion of a Fungal Extracellular Catalase by <i>Claviceps purpurea</i> During Infection of Rye: Putative Role in Pathogenicity and Suppression of Host Defense. <i>Phytopathology</i> , 1998, 88, 744-753.	2.2	53
16	RNAi-Based Functional Genomics Identifies New Virulence Determinants in Mucormycosis. <i>PLoS Pathogens</i> , 2017, 13, e1006150.	4.7	53
17	A RING-finger protein regulates carotenogenesis via proteolysis-independent ubiquitylation of a White Collar-like activator. <i>Molecular Microbiology</i> , 2008, 70, 1026-1036.	2.5	52
18	Components of a new gene family of ferroxidases involved in virulence are functionally specialized in fungal dimorphism. <i>Scientific Reports</i> , 2018, 8, 7660.	3.3	47

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19	The RNAi machinery controls distinct responses to environmental signals in the basal fungus <i>Mucor circinelloides</i> . <i>BMC Genomics</i> , 2015, 16, 237.	2.8	45
20	Improved \hat{I}^3 -linolenic acid production in <i>Mucor circinelloides</i> by homologous overexpressing of delta-12 and delta-6 desaturases. <i>Microbial Cell Factories</i> , 2017, 16, 113.	4.0	45
21	Understanding <i>Mucor circinelloides</i> pathogenesis by comparative genomics and phenotypical studies. <i>Virulence</i> , 2018, 9, 707-720.	4.4	44
22	Role of malate transporter in lipid accumulation of oleaginous fungus <i>Mucor circinelloides</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1297-1305.	3.6	42
23	Genes, Pathways, and Mechanisms Involved in the Virulence of Mucorales. <i>Genes</i> , 2020, 11, 317.	2.4	42
24	Control of morphology and virulence by ADP-ribosylation factors (Arf) in <i>Mucor circinelloides</i> . <i>Current Genetics</i> , 2018, 64, 853-869.	1.7	41
25	Mucorales Species and Macrophages. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 94.	3.5	39
26	<i>Mucor circinelloides</i> : Growth, Maintenance, and Genetic Manipulation. <i>Current Protocols in Microbiology</i> , 2018, 49, e53.	6.5	38
27	A new regulatory mechanism controlling carotenogenesis in the fungus <i>Mucor circinelloides</i> as a target to generate \hat{I}^2 -carotene over-producing strains by genetic engineering. <i>Microbial Cell Factories</i> , 2016, 15, 99.	4.0	33
28	An Adult Zebrafish Model Reveals that Mucormycosis Induces Apoptosis of Infected Macrophages. <i>Scientific Reports</i> , 2018, 8, 12802.	3.3	33
29	Increased Lipid Accumulation in <i>Mucor circinelloides</i> by Overexpression of Mitochondrial Citrate Transporter Genes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2125-2134.	3.7	31
30	Genetic Modification of <i>Mucor circinelloides</i> to Construct Stearidonic Acid Producing Cell Factory. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1683.	4.1	31
31	Engineering of Fatty Acid Synthases (FASs) to Boost the Production of Medium-Chain Fatty Acids (MCFAs) in <i>Mucor circinelloides</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 786.	4.1	30
32	Construction of DGLA producing cell factory by genetic modification of <i>Mucor circinelloides</i> . <i>Microbial Cell Factories</i> , 2019, 18, 64.	4.0	29
33	A Subunit of Protein Kinase A Regulates Growth and Differentiation in the Fungus <i>Mucor circinelloides</i> . <i>Eukaryotic Cell</i> , 2009, 8, 933-944.	3.4	28
34	Molecular Tools for Carotenogenesis Analysis in the Mucoral <i>Mucor circinelloides</i> . <i>Methods in Molecular Biology</i> , 2018, 1852, 221-237.	0.9	28
35	<i>Mucor circinelloides</i> Thrives inside the Phagosome through an Atf-Mediated Germination Pathway. <i>MBio</i> , 2019, 10, .	4.1	28
36	<i>cigA</i> , a light-inducible gene involved in vegetative growth in <i>Mucor circinelloides</i> is regulated by the carotenogenic repressor <i>crgA</i> . <i>Fungal Genetics and Biology</i> , 2003, 38, 122-132.	2.1	26

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37	The RING-finger domain of the fungal repressor <i>crgA</i> is essential for accurate light regulation of carotenogenesis. <i>Molecular Microbiology</i> , 2004, 52, 1463-1474.	2.5	26
38	RNA Interference in Fungi: Retention and Loss. <i>Microbiology Spectrum</i> , 2016, 4, .	3.0	24
39	Comparative Analysis of β -Carotene Production by <i>Mucor circinelloides</i> Strains CBS 277.49 and WJ11 under Light and Dark Conditions. <i>Metabolites</i> , 2020, 10, 38.	2.9	24
40	A RING-finger photocarotenogenic repressor involved in asexual sporulation in <i>Mucor circinelloides</i> . <i>FEMS Microbiology Letters</i> , 2008, 280, 81-88.	1.8	23
41	Comparative genomics applied to <i>Mucor</i> species with different lifestyles. <i>BMC Genomics</i> , 2020, 21, 135.	2.8	23
42	Molecular Tools for Carotenogenesis Analysis in the Zygomycete <i>Mucor circinelloides</i> . <i>Methods in Molecular Biology</i> , 2012, 898, 85-107.	0.9	22
43	Distinct RNAi Pathways in the Regulation of Physiology and Development in the Fungus <i>Mucor circinelloides</i> . <i>Advances in Genetics</i> , 2015, 91, 55-102.	1.8	22
44	A non-canonical RNAi pathway controls virulence and genome stability in <i>Mucorales</i> . <i>PLoS Genetics</i> , 2020, 16, e1008611.	3.5	21
45	Isolation of the <i>facA</i> (acetyl-CoA synthetase) gene of <i>Phycomyces blakesleeana</i> . <i>Molecular Genetics and Genomics</i> , 1994, 244, 278-286.	2.4	19
46	A White Collar 1-like protein mediates opposite regulatory functions in <i>Mucor circinelloides</i> . <i>Fungal Genetics and Biology</i> , 2013, 52, 42-52.	2.1	19
47	The DASH-type Cryptochrome from the Fungus <i>Mucor circinelloides</i> Is a Canonical CPD-Photolyase. <i>Current Biology</i> , 2020, 30, 4483-4490.e4.	3.9	19
48	Protein Kinase A Regulatory Subunit Isoforms Regulate Growth and Differentiation in <i>Mucor circinelloides</i> : Essential Role of PKAR4. <i>Eukaryotic Cell</i> , 2012, 11, 989-1002.	3.4	18
49	Role of Arf-like proteins (Arl1 and Arl2) of <i>Mucor circinelloides</i> in virulence and antifungal susceptibility. <i>Fungal Genetics and Biology</i> , 2019, 129, 40-51.	2.1	18
50	Structural and functional analysis of an oligomeric hydrophobin gene from <i>Claviceps purpurea</i> . <i>Molecular Plant Pathology</i> , 2003, 4, 31-41.	4.2	17
51	Non-AUG Translation Initiation of a Fungal RING Finger Repressor Involved in Photocarotenogenesis. <i>Journal of Biological Chemistry</i> , 2007, 282, 15394-15403.	3.4	17
52	Stable and reproducible homologous recombination enables CRISPR-based engineering in the fungus <i>Rhizopus microsporus</i> . <i>Cell Reports Methods</i> , 2021, 1, 100124.	2.9	17
53	Generation of A <i>Mucor circinelloides</i> Reporter Strain – A Promising New Tool to Study Antifungal Drug Efficacy and Mucormycosis. <i>Genes</i> , 2018, 9, 613.	2.4	16
54	Deletion of Plasma Membrane Malate Transporters Increased Lipid Accumulation in the Oleaginous Fungus <i>Mucor circinelloides</i> WJ11. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 9632-9641.	5.2	16

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55	Cloning, characterization and heterologous expression of the <i>Blakeslea trisporae</i> gene encoding orotidine-5- β -monophosphate decarboxylase. <i>FEMS Microbiology Letters</i> , 2003, 222, 229-236.	1.8	15
56	Increased Accumulation of Medium-Chain Fatty Acids by Dynamic Degradation of Long-Chain Fatty Acids in <i>Mucor circinelloides</i> . <i>Genes</i> , 2020, 11, 890.	2.4	15
57	The heterotrimeric G β protein beta subunit Gpb1 controls hyphal growth under low oxygen conditions through the protein kinase A pathway and is essential for virulence in the fungus <i>Mucor circinelloides</i> . <i>Cellular Microbiology</i> , 2020, 22, e13236.	2.1	15
58	Improved SDA Production in High Lipid Accumulating Strain of <i>Mucor circinelloides</i> WJ11 by Genetic Modification. <i>American Journal of Biochemistry and Biotechnology</i> , 2020, 16, 138-147.	0.4	15
59	Mitochondrial Citrate Transport System in the Fungus <i>Mucor circinelloides</i> : Identification, Phylogenetic Analysis, and Expression Profiling During Growth and Lipid Accumulation. <i>Current Microbiology</i> , 2020, 77, 220-231.	2.2	11
60	Secretion of the siderophore rhizoferrin is regulated by the cAMP-PKA pathway and is involved in the virulence of <i>Mucor lusitanicus</i> . <i>Scientific Reports</i> , 2022, 12, .	3.3	11
61	Generation of lycopene-overproducing strains of the fungus <i>Mucor circinelloides</i> reveals important aspects of lycopene formation and accumulation. <i>Biotechnology Letters</i> , 2017, 39, 439-446.	2.2	10
62	Heterotrimeric G α subunits Gpa11 and Gpa12 define a transduction pathway that control spore size and virulence in <i>Mucor circinelloides</i> . <i>PLoS ONE</i> , 2019, 14, e0226682.	2.5	10
63	Light regulates a <i>Phycomyces blakesleeanus</i> gene family similar to the carotenogenic repressor gene of <i>Mucor circinelloides</i> . <i>Fungal Biology</i> , 2020, 124, 338-351.	2.5	10
64	Recent Advances and Future Directions in the Understanding of Mucormycosis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 850581.	3.9	10
65	The RNAi Mechanism Regulates a New Exonuclease Gene Involved in the Virulence of Mucorales. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2282.	4.1	9
66	Transformation of <i>Mucor circinelloides</i> f. <i>lusitanicus</i> Protoplasts. <i>Fungal Biology</i> , 2015, , 49-59.	0.6	8
67	The RNAi Machinery in Mucorales: The Emerging Role of Endogenous Small RNAs. , 2014, , 291-313.		8
68	Genetic Modification of <i>Mucor circinelloides</i> for Canthaxanthin Production by Heterologous Expression of β -carotene Ketolase Gene. <i>Frontiers in Nutrition</i> , 2021, 8, 756218.	3.7	8
69	Arf-like proteins (Arl1 and Arl2) are involved in mitochondrial homeostasis in <i>Mucor circinelloides</i> . <i>Fungal Biology</i> , 2020, 124, 619-628.	2.5	7
70	A Mucoralean White Collar-1 Photoreceptor Controls Virulence by Regulating an Intricate Gene Network during Host Interactions. <i>Microorganisms</i> , 2021, 9, 459.	3.6	7
71	A ribonuclease III involved in virulence of Mucorales fungi has evolved to cut exclusively single-stranded RNA. <i>Nucleic Acids Research</i> , 2021, 49, 5294-5307.	14.5	6
72	Genetic Manipulation in Mucorales and New Developments to Study Mucormycosis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3454.	4.1	6

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73	Biodiesel from microbial oil. , 2012, , 179-203.		5
74	DNA Methylation on N6-Adenine Regulates the Hyphal Development during Dimorphism in the Early-Diverging Fungus <i>Mucor lusitanicus</i> . <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 738.	3.5	4
75	Production of fatty acid methyl esters and other bioactive compounds in elicited cultures of the fungus <i>Mucor circinelloides</i> . <i>Mycological Progress</i> , 2017, 16, 507-512.	1.4	3
76	RNA Interference in Fungi: Retention and Loss. , 0, , 657-671.		3
77	Role of the Non-Canonical RNAi Pathway in the Antifungal Resistance and Virulence of Mucorales. <i>Genes</i> , 2021, 12, 586.	2.4	2
78	Role of Cytosolic Malic Enzyme in Oleaginicinity of High-Lipid-Producing Fungal Strain <i>Mucor circinelloides</i> WJ11. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 265.	3.5	2
79	Transformation and CRISPR-Cas9-mediated homologous recombination in the fungus <i>Rhizopus microsporus</i> . <i>STAR Protocols</i> , 2022, 3, 101237.	1.2	2
80	Mutants of <i>Phycomyces blakesleeanus</i> Defective in Acetyl-CoA Synthetase. <i>Fungal Genetics and Biology</i> , 1996, 20, 70-73.	2.1	1
81	A Landmark in the Study of Mucormycosis: Stable and Reproducible Homologous Recombination in <i>Rhizopus microsporus</i> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
82	Early Diverging Fungus <i>Mucor circinelloides</i> Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
83	Overexpression of the Mitochondrial Malic Enzyme Genes (<i>malC</i> and <i>malD</i>) Improved the Lipid Accumulation in <i>Mucor circinelloides</i> WJ11. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	1
84	5 Small RNAs in Fungi. , 2020, , 105-122.		0