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	Recent Advances and Future Directions in the Understanding of Mucormycosis. Frontiers in Cellular and Infection Microbiology, 2022, 12, 850581.	3.9	10
2	Role of Cytosolic Malic Enzyme in Oleaginicity of High-Lipid-Producing Fungal Strain Mucor circinelloides WJ11. Journal of Fungi (Basel, Switzerland), 2022, 8, 265.	3.5	2
3	Transformation and CRISPR-Cas9-mediated homologous recombination in the fungus Rhizopus microsporus. STAR Protocols, 2022, 3, 101237.	1.2	2
4	Genetic Manipulation in Mucorales and New Developments to Study Mucormycosis. International Journal of Molecular Sciences, 2022, 23, 3454.	4.1	6
5	Secretion of the siderophore rhizoferrin is regulated by the cAMP-PKA pathway and is involved in the virulence of Mucor lusitanicus. Scientific Reports, 2022, 12, .	3.3	11
6	A Mucoralean White Collar-1 Photoreceptor Controls Virulence by Regulating an Intricate Gene Network during Host Interactions. Microorganisms, 2021, 9, 459.	3.6	7
7	The RNAi Mechanism Regulates a New Exonuclease Gene Involved in the Virulence of Mucorales. International Journal of Molecular Sciences, 2021, 22, 2282.	4.1	9
8	A ribonuclease III involved in virulence of Mucorales fungi has evolved to cut exclusively single-stranded RNA. Nucleic Acids Research, 2021, 49, 5294-5307.	14.5	6
9	Role of the Non-Canonical RNAi Pathway in the Antifungal Resistance and Virulence of Mucorales. Genes, 2021, 12, 586.	2.4	2
10	Deletion of Plasma Membrane Malate Transporters Increased Lipid Accumulation in the Oleaginous Fungus <i>Mucor circinelloides</i> WJ11. Journal of Agricultural and Food Chemistry, 2021, 69, 9632-9641.	5.2	16
11	DNA Methylation on N6-Adenine Regulates the Hyphal Development during Dimorphism in the Early-Diverging Fungus Mucor lusitanicus. Journal of Fungi (Basel, Switzerland), 2021, 7, 738.	3.5	4
12	Genetic Modification of Mucor circinelloides for Canthaxanthin Production by Heterologous Expression of Î²-carotene Ketolase Gene. Frontiers in Nutrition, 2021, 8, 756218.	3.7	8
13	Stable and reproducible homologous recombination enables CRISPR-based engineering in the fungus Rhizopus microsporus. Cell Reports Methods, 2021, 1, 100124.	2.9	17
14	Light regulates a Phycomyces blakesleeanus gene family similar to the carotenogenic repressor gene of Mucor circinelloides. Fungal Biology, 2020, 124, 338-351.	2.5	10
15	Mitochondrial Citrate Transport System in the Fungus Mucor circinelloides: Identification, Phylogenetic Analysis, and Expression Profiling During Growth and Lipid Accumulation. Current Microbiology, 2020, 77, 220-231.	2.2	11
16	A non-canonical RNAi pathway controls virulence and genome stability in Mucorales. PLoS Genetics, 2020, 16, e1008611.	3.5	21
17	The DASH-type Cryptochrome from the Fungus Mucor circinelloides Is a Canonical CPD-Photolyase. Current Biology, 2020, 30, 4483-4490.e4.	3.9	19
18	Increased Accumulation of Medium-Chain Fatty Acids by Dynamic Degradation of Long-Chain Fatty Acids in Mucor circinelloides. Genes, 2020, 11, 890.	2.4	15

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19	The heterotrimeric Gâ€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>. Cellular Microbiology, 2020, 22, e13236.	2.1	15
20	Genes, Pathways, and Mechanisms Involved in the Virulence of Mucorales. Genes, 2020, 11, 317.	2.4	42
21	Arf-like proteins (Arl1 and Arl2) are involved in mitochondrial homeostasis in Mucor circinelloides. Fungal Biology, 2020, 124, 619-628.	2.5	7
22	Mucorales Species and Macrophages. Journal of Fungi (Basel, Switzerland), 2020, 6, 94.	3.5	39
23	Comparative genomics applied to Mucor species with different lifestyles. BMC Genomics, 2020, 21, 135.	2.8	23
24	Comparative Analysis of Î²-Carotene Production by Mucor circinelloides Strains CBS 277.49 and WJ11 under Light and Dark Conditions. Metabolites, 2020, 10, 38.	2.9	24
25	Improved SDA Production in High Lipid Accumulating Strain of <i>Mucor circinelloides</i> WJ11 by Genetic Modification. American Journal of Biochemistry and Biotechnology, 2020, 16, 138-147.	0.4	15
26	5 Small RNAs in Fungi. , 2020, , 105-122.		0
27	Early Diverging Fungus Mucor circinelloides Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. Current Biology, 2019, 29, 3791-3802.e6.	3.9	77
28	Increased Lipid Accumulation inMucorcircinelloidesby Overexpression of Mitochondrial Citrate Transporter Genes. Industrial & Engineering Chemistry Research, 2019, 58, 2125-2134.	3.7	31
29	Genetic Modification of Mucor circinelloides to Construct Stearidonic Acid Producing Cell Factory. International Journal of Molecular Sciences, 2019, 20, 1683.	4.1	31
30	Role of Arf-like proteins (Arl1 and Arl2) of Mucor circinelloides in virulence and antifungal susceptibility. Fungal Genetics and Biology, 2019, 129, 40-51.	2.1	18
31	Construction of DGLA producing cell factory by genetic modification of Mucor circinelloides. Microbial Cell Factories, 2019, 18, 64.	4.0	29
32	<i>Mucor circinelloides</i> Thrives inside the Phagosome through an Atf-Mediated Germination Pathway. MBio, 2019, 10, .	4.1	28
33	Engineering of Fatty Acid Synthases (FASs) to Boost the Production of Medium-Chain Fatty Acids (MCFAs) in Mucor circinelloides. International Journal of Molecular Sciences, 2019, 20, 786.	4.1	30
34	Heterotrimeric G-alpha subunits Gpa11 and Gpa12 define a transduction pathway that control spore size and virulence in Mucor circinelloides. PLoS ONE, 2019, 14, e0226682.	2.5	10
35	Understanding <i>Mucor circinelloides</i> pathogenesis by comparative genomics and phenotypical studies. Virulence, 2018, 9, 707-720.	4.4	44
36	Control of morphology and virulence by ADP-ribosylation factors (Arf) in Mucor circinelloides. Current Genetics, 2018, 64, 853-869.	1.7	41

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37	<i>Mucor circinelloides</i>: Growth, Maintenance, and Genetic Manipulation. Current Protocols in Microbiology, 2018, 49, e53.	6.5	38
38	Generation of A Mucor circinelloides Reporter Strainâ€"A Promising New Tool to Study Antifungal Drug Efficacy and Mucormycosis. Genes, 2018, 9, 613.	2.4	16
39	An Adult Zebrafish Model Reveals that Mucormycosis Induces Apoptosis of Infected Macrophages. Scientific Reports, 2018, 8, 12802.	3.3	33
40	Components of a new gene family of ferroxidases involved in virulence are functionally specialized in fungal dimorphism. Scientific Reports, 2018, 8, 7660.	3.3	47
41	Molecular Tools for Carotenogenesis Analysis in the Mucoral Mucor circinelloides. Methods in Molecular Biology, 2018, 1852, 221-237.	0.9	28
42	Production of fatty acid methyl esters and other bioactive compounds in elicited cultures of the fungus Mucor circinelloides. Mycological Progress, 2017, 16, 507-512.	1.4	3
43	Generation of lycopene-overproducing strains of the fungus Mucor circinelloides reveals important aspects of lycopene formation and accumulation. Biotechnology Letters, 2017, 39, 439-446.	2.2	10
44	Improved Î³-linolenic acid production in Mucor circinelloides by homologous overexpressing of delta-12 and delta-6 desaturases. Microbial Cell Factories, 2017, 16, 113.	4.0	45
45	RNAi-Based Functional Genomics Identifies New Virulence Determinants in Mucormycosis. PLoS Pathogens, 2017, 13, e1006150.	4.7	53
46	RNA Interference in Fungi: Retention and Loss. Microbiology Spectrum, 2016, 4, .	3.0	24
47	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. Current Biology, 2016, 26, 1577-1584.	3.9	175
48	A new regulatory mechanism controlling carotenogenesis in the fungus Mucor circinelloides as a target to generate Î²-carotene over-producing strains by genetic engineering. Microbial Cell Factories, 2016, 15, 99.	4.0	33
49	Role of malate transporter in lipid accumulation of oleaginous fungus Mucor circinelloides. Applied Microbiology and Biotechnology, 2016, 100, 1297-1305.	3.6	42
50	Distinct RNAi Pathways in the Regulation of Physiology and Development in the Fungus Mucor circinelloides. Advances in Genetics, 2015, 91, 55-102.	1.8	22
51	Transformation of Mucor circinelloides f. lusitanicus Protoplasts. Fungal Biology, 2015, , 49-59.	0.6	8
52	The RNAi machinery controls distinct responses to environmental signals in the basal fungus Mucor circinelloides. BMC Genomics, 2015, 16, 237.	2.8	45
53	A Non-canonical RNA Silencing Pathway Promotes mRNA Degradation in Basal Fungi. PLoS Genetics, 2015, 11, e1005168.	3.5	57
54	Comparison of Biochemical Activities between High and Low Lipid-Producing Strains of Mucor circinelloides: An Explanation for the High Oleaginicity of Strain WJ11. PLoS ONE, 2015, 10, e0128396.	2.5	66

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55	The RNAi Machinery in Mucorales: The Emerging Role of Endogenous Small RNAs. , 2014, , 291-313.		8
56	A White Collar 1-like protein mediates opposite regulatory functions in Mucor circinelloides. Fungal Genetics and Biology, 2013, 52, 42-52.	2.1	19
57	Malic enzyme activity is not the only bottleneck for lipid accumulation in the oleaginous fungus Mucor circinelloides. Applied Microbiology and Biotechnology, 2013, 97, 3063-3072.	3.6	93
58	Biodiesel from microbial oil. , 2012, , 179-203.		5
59	Protein Kinase A Regulatory Subunit Isoforms Regulate Growth and Differentiation in Mucor circinelloides: Essential Role of PKAR4. Eukaryotic Cell, 2012, 11, 989-1002.	3.4	18
60	Molecular Tools for Carotenogenesis Analysis in the Zygomycete Mucor circinelloides. Methods in Molecular Biology, 2012, 898, 85-107.	0.9	22
61	High reliability transformation of the basal fungus Mucor circinelloides by electroporation. Journal of Microbiological Methods, 2011, 84, 442-446.	1.6	62
62	Direct Transformation of Fungal Biomass from Submerged Cultures into Biodiesel. Energy & Fuels, 2010, 24, 3173-3178.	5.1	94
63	Photobiology in the Zygomycota: Multiple photoreceptor genes for complex responses to light. Fungal Genetics and Biology, 2010, 47, 893-899.	2.1	76
64	A Subunit of Protein Kinase A Regulates Growth and Differentiation in the Fungus<i>Mucor circinelloides</i>. Eukaryotic Cell, 2009, 8, 933-944.	3.4	28
65	Biodiesel production from biomass of an oleaginous fungus. Biochemical Engineering Journal, 2009, 48, 22-27.	3.6	261
66	A RING-finger photocarotenogenic repressor involved in asexual sporulation inMucor circinelloides. FEMS Microbiology Letters, 2008, 280, 81-88.	1.8	23
67	A RINGâ€finger protein regulates carotenogenesis via proteolysisâ€independent ubiquitylation of a White Collarâ€1â€like activator. Molecular Microbiology, 2008, 70, 1026-1036.	2.5	52
68	Role of the White Collar 1 Photoreceptor in Carotenogenesis, UV Resistance, Hydrophobicity, and Virulence of <i>Fusarium oxysporum</i>. Eukaryotic Cell, 2008, 7, 1227-1230.	3.4	91
69	Non-AUG Translation Initiation of a Fungal RING Finger Repressor Involved in Photocarotenogenesis. Journal of Biological Chemistry, 2007, 282, 15394-15403.	3.4	17
70	Distinct white collar-1 genes control specific light responses in Mucor circinelloides. Molecular Microbiology, 2006, 61, 1023-1037.	2.5	109
71	Light induction of the carotenoid biosynthesis pathway in Blakeslea trispora. Fungal Genetics and Biology, 2005, 42, 141-153.	2.1	54
72	The RING-finger domain of the fungal repressor crgA is essential for accurate light regulation of carotenogenesis. Molecular Microbiology, 2004, 52, 1463-1474.	2.5	26

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73	Cloning, characterization and heterologous expression of theBlakeslea trisporagene encoding orotidine-5Ã¢Â€Â²-monophosphate decarboxylase. FEMS Microbiology Letters, 2003, 222, 229-236.	1.8	15
74	Structural and functional analysis of an oligomeric hydrophobin gene from Claviceps purpurea. Molecular Plant Pathology, 2003, 4, 31-41.	4.2	17
75	cigA, a light-inducible gene involved in vegetative growth in Mucor circinelloides is regulated by the carotenogenic repressor crgA. Fungal Genetics and Biology, 2003, 38, 122-132.	2.1	26
76	A negative regulator of light-inducible carotenogenesis in Mucor circinelloides. Molecular Genetics and Genomics, 2001, 266, 463-470.	2.1	75
77	Secretion of a Fungal Extracellular Catalase by Claviceps purpurea During Infection of Rye: Putative Role in Pathogenicity and Suppression of Host Defense. Phytopathology, 1998, 88, 744-753.	2.2	53
78	Cloning, Characterization, and Targeted Disruption of cpcat1, Coding for an in Planta Secreted Catalase of Claviceps purpurea. Molecular Plant-Microbe Interactions, 1998, 11, 772-783.	2.6	58
79	Mutants ofPhycomyces blakesleeanusDefective in Acetyl-CoA Synthetase. Fungal Genetics and Biology, 1996, 20, 70-73.	2.1	1
80	Isolation of the facA (acetyl-CoA synthetase) gene of Phycomyces blakesleeanus. Molecular Genetics and Genomics, 1994, 244, 278-286.	2.4	19
81	RNA Interference in Fungi: Retention and Loss. , 0, , 657-671.		3
82	A Landmark in the Study of Mucormycosis: Stable and Reproducible Homologous Recombination in <i>Rhizopus microsporus</i>. SSRN Electronic Journal, 0, , .	0.4	1
83	Early Diverging Fungus <i>Mucor circinelloides</i> Lacks Centromeric Histone CENP-A and Displays a Mosaic of Point and Regional Centromeres. SSRN Electronic Journal, 0, , .	0.4	1
84	Overexpression of the Mitochondrial Malic Enzyme Genes (malC and malD) Improved the Lipid Accumulation in Mucor circinelloides WJ11. Frontiers in Microbiology, 0, 13, .	3.5	1