

# Santiago Torres-Martinez

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,670  
citations

201385

27  
h-index

301761

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel production from biomass of an oleaginous fungus. <i>Biochemical Engineering Journal</i> , 2009, 48, 22-27.	1.8	261
2	Microsporidia Evolved from Ancestral Sexual Fungi. <i>Current Biology</i> , 2008, 18, 1675-1679.	1.8	256
3	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	1.8	175
4	Antifungal drug resistance evoked via RNAi-dependent epimutations. <i>Nature</i> , 2014, 513, 555-558.	13.7	147
5	Mutants defective in a <i>Mucor circinelloides</i> dicer-like gene are not compromised in siRNA silencing but display developmental defects. <i>Fungal Genetics and Biology</i> , 2007, 44, 504-516.	0.9	134
6	Two classes of small antisense RNAs in fungal RNA silencing triggered by non-integrative transgenes. <i>EMBO Journal</i> , 2003, 22, 3983-3991.	3.5	132
7	Distinct white collar-1 genes control specific light responses in <i>Mucor circinelloides</i> . <i>Molecular Microbiology</i> , 2006, 61, 1023-1037.	1.2	109
8	Endogenous short RNAs generated by Dicer 2 and RNA-dependent RNA polymerase 1 regulate mRNAs in the basal fungus <i>Mucor circinelloides</i> . <i>Nucleic Acids Research</i> , 2010, 38, 5535-5541.	6.5	104
9	The RNAi Universe in Fungi: A Varied Landscape of Small RNAs and Biological Functions. <i>Annual Review of Microbiology</i> , 2017, 71, 371-391.	2.9	104
10	Direct Transformation of Fungal Biomass from Submerged Cultures into Biodiesel. <i>Energy &amp; Fuels</i> , 2010, 24, 3173-3178.	2.5	94
11	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.	1.7	93
12	A Single <i>dicer</i> Gene Is Required for Efficient Gene Silencing Associated with Two Classes of Small Antisense RNAs in <i>Mucor circinelloides</i> . <i>Eukaryotic Cell</i> , 2009, 8, 1486-1497.	3.4	79
13	Two distinct RNA-dependent RNA polymerases are required for initiation and amplification of RNA silencing in the basal fungus <i>Mucor circinelloides</i> . <i>Molecular Microbiology</i> , 2012, 83, 379-394.	1.2	67
14	Loss and Retention of RNA Interference in Fungi and Parasites. <i>PLoS Pathogens</i> , 2013, 9, e1003089.	2.1	65
15	A Non-canonical RNA Silencing Pathway Promotes mRNA Degradation in Basal Fungi. <i>PLoS Genetics</i> , 2015, 11, e1005168.	1.5	57
16	Light induction of the carotenoid biosynthesis pathway in <i>Blakeslea trispora</i> . <i>Fungal Genetics and Biology</i> , 2005, 42, 141-153.	0.9	54
17	A Single Argonaute Gene Participates in Exogenous and Endogenous RNAi and Controls Cellular Functions in the Basal Fungus <i>Mucor circinelloides</i> . <i>PLoS ONE</i> , 2013, 8, e69283.	1.1	53
18	RNAi-Based Functional Genomics Identifies New Virulence Determinants in Mucormycosis. <i>PLoS Pathogens</i> , 2017, 13, e1006150.	2.1	53

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19	A RING-finger protein regulates carotenogenesis via proteolysis-independent ubiquitylation of a White Collar 1-like activator. <i>Molecular Microbiology</i> , 2008, 70, 1026-1036.	1.2	52
20	A non-canonical RNA degradation pathway suppresses RNAi-dependent epimutations in the human fungal pathogen <i>Mucor circinelloides</i> . <i>PLoS Genetics</i> , 2017, 13, e1006686.	1.5	50
21	RNAi pathways in <i>Mucor</i> : A tale of proteins, small RNAs and functional diversity. <i>Fungal Genetics and Biology</i> , 2016, 90, 44-52.	0.9	46
22	The RNAi machinery controls distinct responses to environmental signals in the basal fungus <i>Mucor circinelloides</i> . <i>BMC Genomics</i> , 2015, 16, 237.	1.2	45
23	Substrate Transfer in Carotene Biosynthesis in phycomyces. <i>FEBS Journal</i> , 1981, 119, 511-516.	0.2	43
24	Overexpression of the <i>crgA</i> gene abolishes light requirement for carotenoid biosynthesis in <i>Mucor circinelloides</i> . <i>FEBS Journal</i> , 2000, 267, 800-807.	0.2	39
25	A new regulatory mechanism controlling carotenogenesis in the fungus <i>Mucor circinelloides</i> as a target to generate $\beta^2$ -carotene over-producing strains by genetic engineering. <i>Microbial Cell Factories</i> , 2016, 15, 99.	1.9	33
26	An Adult Zebrafish Model Reveals that Mucormycosis Induces Apoptosis of Infected Macrophages. <i>Scientific Reports</i> , 2018, 8, 12802.	1.6	33
27	Expression of Tn5-derived kanamycin resistance in the fungus <i>Phycomyces blakesleeanus</i> . <i>Molecular Genetics and Genomics</i> , 1988, 212, 375-377.	2.4	32
28	Molecular Tools for Carotenogenesis Analysis in the Mucoral <i>Mucor circinelloides</i> . <i>Methods in Molecular Biology</i> , 2018, 1852, 221-237.	0.4	28
29	<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.	0.9	26
30	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.	1.2	26
31	A RING-finger photocarotenogenic repressor involved in asexual sporulation in <i>Mucor circinelloides</i> . <i>FEMS Microbiology Letters</i> , 2008, 280, 81-88.	0.7	23
32	Molecular Tools for Carotenogenesis Analysis in the Zygomycete <i>Mucor circinelloides</i> . <i>Methods in Molecular Biology</i> , 2012, 898, 85-107.	0.4	22
33	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.	0.8	22
34	Nucleosomes containing histones H1 or H5 are closely interspersed in chromatin. <i>Nucleic Acids Research</i> , 1982, 10, 2323-2335.	6.5	19
35	Isolation of the <i>facA</i> (acetyl-CoA synthetase) gene of <i>Phycomyces blakesleeanus</i> . <i>Molecular Genetics and Genomics</i> , 1994, 244, 278-286.	2.4	19
36	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.	0.9	19

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37	Non-AUG Translation Initiation of a Fungal RING Finger Repressor Involved in Photocarotenogenesis. Journal of Biological Chemistry, 2007, 282, 15394-15403.	1.6	17
38	Transcriptional activation increases RNA silencing efficiency and stability in the fungus <i>Mucor circinelloides</i> . Journal of Biotechnology, 2009, 142, 123-126.	1.9	16
39	Cloning, characterization and heterologous expression of the <i>Blakeslea trispora</i> gene encoding orotidine-5- $\text{C}^2$ -monophosphate decarboxylase. FEMS Microbiology Letters, 2003, 222, 229-236.	0.7	15
40	The RNAi Machinery in Mucorales: The Emerging Role of Endogenous Small RNAs. , 2014, , 291-313.		8