

Luis F Larrondo

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71 papers	6,504 citations	28 h-index	80 g-index
81 ext. papers	7,980 ext. citations	8.5 avg, IF	4.92 L-index

#	Paper	IF	Citations
71	The Paleozoic origin of enzymatic lignin decomposition reconstructed from 31 fungal genomes. <i>Science</i> , 2012 , 336, 1715-9	33.3	1129
70	Genome sequencing and analysis of the biomass-degrading fungus <i>Trichoderma reesei</i> (syn. <i>Hypocrea jecorina</i>). <i>Nature Biotechnology</i> , 2008 , 26, 553-60	44.5	920
69	Determination and inference of eukaryotic transcription factor sequence specificity. <i>Cell</i> , 2014 , 158, 1431-1443	56.2	866
68	Genome sequence of the lignocellulose degrading fungus <i>Phanerochaete chrysosporium</i> strain RP78. <i>Nature Biotechnology</i> , 2004 , 22, 695-700	44.5	710
67	Genome, transcriptome, and secretome analysis of wood decay fungus <i>Postia placenta</i> supports unique mechanisms of lignocellulose conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1954-9	11.5	479
66	The role of oxidative stress in the toxicity induced by amyloid beta-peptide in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2000 , 62, 633-48	10.9	319
65	Comparative genomics of <i>Ceriporiopsis subvermispora</i> and <i>Phanerochaete chrysosporium</i> provide insight into selective ligninolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5458-63	11.5	225
64	Daily magnesium fluxes regulate cellular timekeeping and energy balance. <i>Nature</i> , 2016 , 532, 375-9	50.4	149
63	The band mutation in <i>Neurospora crassa</i> is a dominant allele of <i>ras-1</i> implicating RAS signaling in circadian output. <i>Genes and Development</i> , 2007 , 21, 1494-505	12.6	129
62	Fully codon-optimized luciferase uncovers novel temperature characteristics of the <i>Neurospora</i> clock. <i>Eukaryotic Cell</i> , 2008 , 7, 28-37		110
61	Assessing the effects of light on differentiation and virulence of the plant pathogen <i>Botrytis cinerea</i> : characterization of the White Collar Complex. <i>PLoS ONE</i> , 2013 , 8, e84223	3.7	99
60	Circadian rhythms. Decoupling circadian clock protein turnover from circadian period determination. <i>Science</i> , 2015 , 347, 1257277	33.3	93
59	A circadian oscillator in the fungus <i>Botrytis cinerea</i> regulates virulence when infecting <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8744-9	11.5	90
58	A novel extracellular multicopper oxidase from <i>Phanerochaete chrysosporium</i> with ferroxidase activity. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6257-63	4.8	85
57	Analysis of the <i>Phlebiopsis gigantea</i> genome, transcriptome and secretome provides insight into its pioneer colonization strategies of wood. <i>PLoS Genetics</i> , 2014 , 10, e1004759	6	67
56	A circadian clock in <i>Neurospora</i> : how genes and proteins cooperate to produce a sustained, entrainable, and compensated biological oscillator with a period of about a day. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2007 , 72, 57-68	3.9	64
55	Conserved RNA helicase FRH acts nonenzymatically to support the intrinsically disordered <i>neurospora</i> clock protein FRQ. <i>Molecular Cell</i> , 2013 , 52, 832-43	17.6	52

54	Induction of cellular prion protein gene expression by copper in neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C271-81	5.4	51
53	Heterologous expression of laccase cDNA from <i>Ceriporiopsis subvermispota</i> yields copper-activated apoprotein and complex isoform patterns. <i>Microbiology (United Kingdom)</i> , 2003 , 149, 1177-1182	2.9	51
52	Oxidation reactions catalyzed by manganese peroxidase isoenzymes from <i>Ceriporiopsis subvermispota</i> . <i>FEBS Letters</i> , 1995 , 371, 132-6	3.8	51
51	Circadian rhythms synchronize mitosis in <i>Neurospora crassa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1397-402	11.5	48
50	Cloning and molecular analysis of a cDNA and the <i>Cs-mnp1</i> gene encoding a manganese peroxidase isoenzyme from the lignin-degrading basidiomycete <i>Ceriporiopsis subvermispota</i> . <i>Gene</i> , 1998 , 206, 185-93	3.8	42
49	Characterization of three new manganese peroxidase genes from the ligninolytic basidiomycete <i>Ceriporiopsis subvermispota</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000 , 1490, 137-44		38
48	Characterization of a multicopper oxidase gene cluster in <i>Phanerochaete chrysosporium</i> and evidence of altered splicing of the <i>mco</i> transcripts. <i>Microbiology (United Kingdom)</i> , 2004 , 150, 2775-2783	2.9	35
47	Natural variation in non-coding regions underlying phenotypic diversity in budding yeast. <i>Scientific Reports</i> , 2016 , 6, 21849	4.9	34
46	Around the Fungal Clock: Recent Advances in the Molecular Study of Circadian Clocks in <i>Neurospora</i> and Other Fungi. <i>Advances in Genetics</i> , 2015 , 92, 107-84	3.3	32
45	High-resolution spatiotemporal analysis of gene expression in real time: in vivo analysis of circadian rhythms in <i>Neurospora crassa</i> using a FREQUENCY-luciferase translational reporter. <i>Fungal Genetics and Biology</i> , 2012 , 49, 681-3	3.9	31
44	Isoenzyme multiplicity and characterization of recombinant manganese peroxidases from <i>Ceriporiopsis subvermispota</i> and <i>Phanerochaete chrysosporium</i> . <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2070-5	4.8	28
43	Circadian clocks and the regulation of virulence in fungi: Getting up to speed. <i>Seminars in Cell and Developmental Biology</i> , 2016 , 57, 147-155	7.5	28
42	Fungal functional genomics: tunable knockout-knock-in expression and tagging strategies. <i>Eukaryotic Cell</i> , 2009 , 8, 800-4		27
41	Optogenetic switches for light-controlled gene expression in yeast. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 2629-2640	5.7	26
40	RIM15 antagonistic pleiotropy is responsible for differences in fermentation and stress response kinetics in budding yeast. <i>FEMS Yeast Research</i> , 2016 , 16,	3.1	24
39	The bZIP Transcription Factor HAC-1 Is Involved in the Unfolded Protein Response and Is Necessary for Growth on Cellulose in <i>Neurospora crassa</i> . <i>PLoS ONE</i> , 2015 , 10, e0131415	3.7	24
38	Fungal Light-Oxygen-Voltage Domains for Optogenetic Control of Gene Expression and Flocculation in Yeast. <i>MBio</i> , 2018 , 9,	7.8	22
37	A developmental cycle masks output from the circadian oscillator under conditions of choline deficiency in <i>Neurospora</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20102-7	11.5	22

36	Environmental responses and the control of iron homeostasis in fungal systems. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 939-55	5.7	18
35	Molecular and structural modeling of the Phanerochaete flavidio-alba extracellular laccase reveals its ferroxidase structure. <i>Archives of Microbiology</i> , 2010 , 192, 883-92	3	18
34	Cloning and characterization of the genes encoding the high-affinity iron-uptake protein complex Fet3/Ftr1 in the basidiomycete Phanerochaete chrysosporium. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 1772-1780	2.9	17
33	Incomplete processing of peroxidase transcripts in the lignin degrading fungus Phanerochaete chrysosporium. <i>FEMS Microbiology Letters</i> , 2005 , 242, 37-44	2.9	17
32	bcpmr1 encodes a P-type Ca(2+)/Mn(2+)-ATPase mediating cell-wall integrity and virulence in the phytopathogen Botrytis cinerea. <i>Fungal Genetics and Biology</i> , 2015 , 76, 36-46	3.9	16
31	Circadian output, input, and intracellular oscillators: insights into the circadian systems of single cells. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2007 , 72, 201-14	3.9	16
30	The nop gene from Phanerochaete chrysosporium encodes a peroxidase with novel structural features. <i>Biophysical Chemistry</i> , 2005 , 116, 167-73	3.5	14
29	Broad Substrate-Specific Phosphorylation Events Are Associated With the Initial Stage of Plant Cell Wall Recognition in. <i>Frontiers in Microbiology</i> , 2019 , 10, 2317	5.7	14
28	Modulation of Circadian Gene Expression and Metabolic Compensation by the RCO-1 Corepressor of Neurospora crassa. <i>Genetics</i> , 2016 , 204, 163-76	4	13
27	Structure and transcriptional impact of divergent repetitive elements inserted within Phanerochaete chrysosporium strain RP-78 genes. <i>Molecular Genetics and Genomics</i> , 2007 , 277, 43-55	3.1	12
26	Recent Advances in the Study of the Plant Pathogenic Fungus Botrytis cinerea and its Interaction with the Environment. <i>Current Protein and Peptide Science</i> , 2017 , 18, 976-989	2.8	12
25	Indirect monitoring of TORC1 signalling pathway reveals molecular diversity among different yeast strains. <i>Yeast</i> , 2019 , 36, 65-74	3.4	10
24	Draft genome sequence of a monokaryotic model brown-rot fungus SB12. <i>Genomics Data</i> , 2017 , 14, 21-23		9
23	In the Driver's Seat: The Case for Transcriptional Regulation and Coupling as Relevant Determinants of the Circadian Transcriptome and Proteome in Eukaryotes. <i>Journal of Biological Rhythms</i> , 2016 , 31, 37-47	3.2	8
22	An Out-of-Patagonia migration explains the worldwide diversity and distribution of Saccharomyces eubayanus lineages. <i>PLoS Genetics</i> , 2020 , 16, e1008777	6	8
21	Neurospora crassa developmental control mediated by the FLB-3 transcription factor. <i>Fungal Biology</i> , 2018 , 122, 570-582	2.8	8
20	A kinetic study of the effects of light on circadian rhythmicity of the frq promoter of Neurospora crassa. <i>Journal of Biological Rhythms</i> , 2014 , 29, 38-48	3.2	8
19	The rise and shine of yeast optogenetics. <i>Yeast</i> , 2021 , 38, 131-146	3.4	8

18	Allelic Variants Affect TORC1 Activation and Fermentation Kinetics in. <i>Frontiers in Microbiology</i> , 2019 , 10, 1686	5.7	6
17	An eleven amino acid residue deletion expands the substrate specificity of acetyl xylan esterase II (AXE II) from <i>Penicillium purpurogenum</i> . <i>Journal of Computer-Aided Molecular Design</i> , 2008 , 22, 19-28	4.2	6
16	<i>Phanerochaete chrysosporium</i> Genomics. <i>Applied Mycology and Biotechnology</i> , 2005 , 5, 315-352		6
15	The Clock Keeps on Ticking: Emerging Roles for Circadian Regulation in the Control of Fungal Physiology and Pathogenesis. <i>Current Topics in Microbiology and Immunology</i> , 2019 , 422, 121-156	3.3	6
14	The developmental regulator Pcz1 affects the production of secondary metabolites in the filamentous fungus <i>Penicillium roqueforti</i> . <i>Microbiological Research</i> , 2018 , 212-213, 67-74	5.3	6
13	Spontaneous circadian rhythms in a cold-adapted natural isolate of <i>Aureobasidium pullulans</i> . <i>Scientific Reports</i> , 2017 , 7, 13837	4.9	5
12	Functional analysis of the endoxylanase B (xynB) promoter from <i>Penicillium purpurogenum</i> . <i>Current Genetics</i> , 2008 , 54, 133-41	2.9	5
11	and Natural Variants Underlie Glycerol Yield Differences in Wine Fermentation. <i>Frontiers in Microbiology</i> , 2018 , 9, 1460	5.7	5
10	A circadian clock in <i>Neurospora crassa</i> functions during plant cell wall deconstruction. <i>Fungal Biology</i> , 2020 , 124, 501-508	2.8	4
9	Bright to dim oscillatory response of the <i>Neurospora</i> circadian oscillator. <i>Journal of Biological Rhythms</i> , 2014 , 29, 49-59	3.2	4
8	A Global Search for novel Transcription Factors impacting the <i>Neurospora crassa</i> Circadian Clock. <i>G3: Genes, Genomes, Genetics</i> , 2021 ,	3.2	4
7	Characterization of PIR1, a GATA family transcription factor involved in iron responses in the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>Fungal Genetics and Biology</i> , 2012 , 49, 626-34	3.9	3
6	Photoreactions of riboflavin with spermine and their role in tryptophan photoconsumption induced by riboflavin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993 , 21, 197-201	6.7	2
5	A comprehensive transcription factor and DNA-binding motif resource for the construction of gene regulatory networks in and .. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 6212-6228	6.8	2
4	Modular and Molecular Optimization of a LOV (Light-Oxygen-Voltage)-Based Optogenetic Switch in Yeast. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
3	Interactions between Core Elements of the <i>Botrytis cinerea</i> Circadian Clock Are Modulated by Light and Different Protein Domains. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022 , 8, 486	5.6	0
2	Exploiting Fungal Photobiology as a Source of Novel Bio-blocks for Optogenetic Systems 2020 , 297-318		
1	Optimization of the Light-On system in a lentiviral platform to a light-controlled expression of genes in neurons. <i>Electronic Journal of Biotechnology</i> , 2021 , 51, 50-57	3.1	

