Jose Perez-Martin

List of Publications by Year
in descending order

111 papers	7,671 citations	50276 46 h-index	54911 84 g-index
112 all docs	112 docs citations	112 times ranked	5560 citing authors

#	Article	IF	Citations
1	Insights from the genome of the biotrophic fungal plant pathogen Ustilago maydis. Nature, 2006, 444, 97-101.	27.8	1,113
2	Reprogramming a maize plant: transcriptional and metabolic changes induced by the fungal biotroph <i>Ustilago maydis</i>. Plant Journal, 2008, 56, 181-195.	5.7	328
3	Comparative genomics of MAP kinase and calciumâ€“calcineurin signalling components in plant and human pathogenic fungi. Fungal Genetics and Biology, 2009, 46, 287-298.	2.1	302
4	Identification of genes in the bW/bE regulatory cascade in Ustilago maydis. Molecular Microbiology, 2001, 42, 1047-1063.	2.5	286
5	Multiallelic recognition: Nonself-dependent dimerization of the bE and bW homeodomain proteins in ustilago maydis. Cell, 1995, 81, 73-83.	28.9	268
6	Fungal Morphogenesis, from the Polarized Growth of Hyphae to Complex Reproduction and Infection Structures. Microbiology and Molecular Biology Reviews, 2018, 82, .	6.6	231
7	A Novel High-Affinity Sucrose Transporter Is Required for Virulence of the Plant Pathogen Ustilago maydis. PLoS Biology, 2010, 8, e1000303.	5.6	205
8	CLUES AND CONSEQUENCES OF DNA BENDING IN TRANSCRIPTION. Annual Review of Microbiology, 1997, 51, 593-628.	7.3	182
9	Binding of the Fur (ferric uptake regulator) repressor of Escherichia coli to arrays of the GATAAT sequence. Journal of Molecular Biology, 1998, 283, 537-547.	4.2	177
10	Regulation of mating and pathogenic development in Ustilago maydis. Current Opinion in Microbiology, 2004, 7, 666-672.	5.1	142
11	Activation of the transcriptional regulator XylR of Pseudomonas putida by release of repression between functional domains. Molecular Microbiology, 1995, 16, 205-213.	2.5	139
12	Ustilago maydis : how its biology relates to pathogenic development. New Phytologist, 2004, 164, 31-42.	7.3	138
13	Fungal model systems and the elucidation of pathogenicity determinants. Fungal Genetics and Biology, 2014, 70, 42-67.	2.1	133
14	Phenotypic switching in Candida albicans is controlled by a SIR2 gene. EMBO Journal, 1999, 18, 2580-2592.	7.8	129
15	Physicalâ€chemical plantâ€derived signals induce differentiation in <i>Ustilago maydis</i>. Molecular Microbiology, 2009, 71, 895-911.	2.5	120
16	Sex in smut fungi: Structure, function and evolution of mating-type complexes. Fungal Genetics and Biology, 2008, 45, S15-S21.	2.1	116
17	The Transcription Factor Rbf1 Is the Master Regulator for b-Mating Type Controlled Pathogenic Development in Ustilago maydis. PLoS Pathogens, 2010, 6, e1001035.	4.7	114
18	Ustilago maydis, a new fungal model system for cell biology. Trends in Cell Biology, 2008, 18, 61-67.	7.9	113

#	Article	IF	Citations
19	Dimorphism in fungal pathogens: Candida albicans and Ustilago maydisâ€"similar inputs, different outputs. Current Opinion in Microbiology, 2001, 4, 214-221.	5.1	107
20	Establishment of compatibility in the Ustilago maydis/maize pathosystem. Journal of Plant Physiology, 2008, 165, 29-40.	3.5	106
21	Pheromone-Induced G 2 Arrest in the Phytopathogenic Fungus Ustilago maydis. Eukaryotic Cell, 2003, 2, 494-500.	3.4	104
22	The Clp1 Protein Is Required for Clamp Formation and Pathogenic Development of Ustilago maydis. Plant Cell, 2006, 18, 2388-2401.	6.6	103
23	Regulatory noise in prokaryotic promoters: how bacteria learn to respond to novel environmental signals. Molecular Microbiology, 1996, 19, 1177-1184.	2.5	101
24	The IIANtr (PtsN) Protein of Pseudomonas putida Mediates the C Source Inhibition of the Ï,54-dependent Pu Promoter of the TOL Plasmid. Journal of Biological Chemistry, 1999, 274, 15562-15568.	3.4	99
25	ATP Binding to the Ïƒ54-Dependent Activator XylRTriggers a Protein Multimerization Cycle Catalyzed by UAS DNA. Cell, 1996, 86, 331-339.	28.9	98
26	<i>Ustilago maydis</i> Infection Strongly Alters Organic Nitrogen Allocation in Maize and Stimulates Productivity of Systemic Source Leaves Â Â. Plant Physiology, 2009, 152, 293-308.	4.8	98
27	Involvement of sigma54 in exponential silencing of the Pseudomonas putida TOL plasmid Pu promoter. Molecular Microbiology, 1996, 19, 7-17.	2.5	94
28	Protein-induced bending as a transcriptional switch. Science, 1993, 260, 805-807.	12.6	83
29	In Vitro Activities of an N-terminal Truncated Form of XylR, a Ïƒ54-dependent Transcriptional Activator of Pseudomonas putida. Journal of Molecular Biology, 1996, 258, 575-587.	4.2	83
30	CandidaDB: a genome database for Candida albicans pathogenomics. Nucleic Acids Research, 2004, 33, D353-D357.	14.5	79
31	Sustained cell polarity and virulence in the phytopathogenic fungus Ustilago maydis depends on an essential cyclin-dependent kinase from the Cdk5/Pho85 family. Journal of Cell Science, 2007, 120, 1584-1595.	2.0	79
32	The induction of sexual development and virulence in the smut fungus Ustilago maydis depends on Crk1, a novel MAPK protein. Genes and Development, 2004, 18, 3117-3130.	5.9	76
33	Biz1, a Zinc Finger Protein Required for Plant Invasion by Ustilago maydis, Regulates the Levels of a Mitotic Cyclin. Plant Cell, 2006, 18, 2369-2387.	6.6	75
34	The<i>Ustilago maydis b</i>mating type locus controls hyphal proliferation and expression of secreted virulence factors<i>in planta</i>. Molecular Microbiology, 2010, 75, 208-220.	2.5	72
35	The<i>Ustilago maydis</i>Clp1 Protein Orchestrates Pheromone and<i>b</i>-Dependent Signaling Pathways to Coordinate the Cell Cycle and Pathogenic Development. Plant Cell, 2010, 22, 2908-2922.	6.6	68
36	The amino-terminal domain of the prokaryotic enhancer-binding protein XylR is a specific intramolecular repressor.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9392-9396.	7.1	67

#	Article	IF	Citations
37	Identification of a target gene for the bE-bW homeodomain protein complex in Ustilago maydis. Molecular Microbiology, 2000, 37, 54-66.	2.5	61
38	The crk1 gene encodes an Ime2-related protein that is required for morphogenesis in the plant pathogen Ustilago maydis. Molecular Microbiology, 2003, 47, 729-743.	2.5	59
39	Characterization of B-type cyclins in the smut fungus Ustilago maydis: roles in morphogenesis and pathogenicity. Journal of Cell Science, 2004, 117, 487-506.	2.0	56
40	<scp>H</scp>xt1, a monosaccharide transporter and sensor required for virulence of the maize pathogen <i><scp>U</scp>stilago maydis</i>. New Phytologist, 2015, 206, 1086-1100.	7.3	55
41	Purification and characterization of RepA, a protein involved in the copy number control of plasmid pLS1. Nucleic Acids Research, 1989, 17, 2405-2420.	14.5	53
42	Pathocycles: Ustilago maydis as a model to study the relationships between cell cycle and virulence in pathogenic fungi. Molecular Genetics and Genomics, 2006, 276, 211-229.	2.1	53
43	Crosstalk between the Unfolded Protein Response and Pathways That Regulate Pathogenic Development in <i>Ustilago maydis</i> Â Â. Plant Cell, 2013, 25, 4262-4277.	6.6	53
44	Control of mating and development in Ustilago maydis. Current Opinion in Genetics and Development, 1995, 5, 559-564.	3.3	52
45	Evidence of an Unusually Long Operator for the Fur Repressor in the Aerobactin Promoter of Escherichia coli. Journal of Biological Chemistry, 2000, 275, 24709-24714.	3.4	52
46	Tetracycline-regulated gene expression in the pathogen Ustilago maydis. Fungal Genetics and Biology, 2006, 43, 727-738.	2.1	51
47	Septins from the Phytopathogenic Fungus Ustilago maydis Are Required for Proper Morphogenesis but Dispensable for Virulence. PLoS ONE, 2010, 5, e12933.	2.5	51
48	Integration host factor suppresses promiscuous activation of the sigma 54-dependent promoter Pu of Pseudomonas putida.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7277-7281.	7.1	50
49	Activation of the Cell Wall Integrity Pathway Promotes Escape from G2 in the Fungus Ustilago maydis. PLoS Genetics, 2010, 6, e1001009.	3.5	48
50	Gpa2, a G-Protein Î± Subunit Required for Hyphal Development in Candida albicans. Eukaryotic Cell, 2002, 1, 865-874.	3.4	47
51	Physical and Functional Analysis of the Prokaryotic Enhancer of the Ïƒ54-promoters of the TOL Plasmid ofPseudomonas putida. Journal of Molecular Biology, 1996, 258, 562-574.	4.2	43
52	The <i>Ustilago maydis</i> Forkhead Transcription Factor Fox1 Is Involved in the Regulation of Genes Required for the Attenuation of Plant Defenses During Pathogenic Development. Molecular Plant-Microbe Interactions, 2010, 23, 1118-1129.	2.6	40
53	Mutations in Chromatin Components Suppress a Defect of Gcn5 Protein in <i>Saccharomyces cerevisiae</i>. Molecular and Cellular Biology, 1998, 18, 1049-1054.	2.3	39
54	Inhibitory phosphorylation of a mitotic cyclin-dependent kinase regulates the morphogenesis, cell size and virulence of the smut fungus Ustilago maydis. Journal of Cell Science, 2005, 118, 3607-3622.	2.0	37

#	Article	IF	Citations
55	VTR expression cassettes for engineering conditional phenotypes in Pseudomonas: activity of the Pu promoter of the TOL plasmid under limiting concentrations of the XylR activator protein. Gene, 1996, 172, 81-86.	2.2	36
56	Ustilago maydis, the Causative Agent of Corn Smut Disease. , 2000, , 347-371.		36
57	Polar Growth in the Infectious Hyphae of the Phytopathogen<i>Ustilago maydis</i>Depends on a Virulence-Specific Cyclin. Plant Cell, 2007, 19, 3280-3296.	6.6	36
58	Growth at High pH and Sodium and Potassium Tolerance in Media above the Cytoplasmic pH Depend on ENA ATPases in <i>Ustilago maydis</i>. Eukaryotic Cell, 2009, 8, 821-829.	3.4	36
59	Correlation between DNA Bending and Transcriptional Activation at a Plasmid Promoter. Journal of Molecular Biology, 1994, 241, 7-17.	4.2	34
60	Three regions in the DNA of plasmid pLS1 show sequence-directed static bending. Nucleic Acids Research, 1988, 16, 9113-9126.	14.5	28
61	The DNA Damage Response Signaling Cascade Regulates Proliferation of the Phytopathogenic Fungus Ustilago maydis in Planta. Plant Cell, 2011, 23, 1654-1665.	6.6	28
62	A role for the DNA-damage checkpoint kinase Chk1 in the virulence program of the fungus<i>Ustilago maydis</i>. Journal of Cell Science, 2009, 122, 4130-4140.	2.0	27
63	Sphingolipid biosynthesis is required for polar growth in the dimorphic phytopathogen Ustilago maydis. Fungal Genetics and Biology, 2009, 46, 190-200.	2.1	27
64	The C-Terminal Domain of Sin1 Interacts with the SWI-SNF Complex in Yeast. Molecular and Cellular Biology, 1998, 18, 4157-4164.	2.3	26
65	The Induction of the Mating Program in the Phytopathogen Ustilago maydis Is Controlled by a G1 Cyclin[W]. Plant Cell, 2005, 17, 3544-3560.	6.6	26
66	Genetic evidence of separate repressor and activator activities of the XylR regulator of the TOL plasmid, pWW0, of Pseudomonas putida. Molecular Microbiology, 1997, 23, 1221-1227.	2.5	25
67	Common motifs in the response of cereal primary metabolism to fungal pathogens are not based on similar transcriptional reprogramming. Frontiers in Plant Science, 2011, 2, 39.	3.6	25
68	Genetic Manipulation of the Plant Pathogen Ustilago maydis to Study Fungal Biology and Plant Microbe Interactions. Journal of Visualized Experiments, 2016, , .	0.3	25
69	The cdc25 phosphatase is essential for the G2/M phase transition in the basidiomycete yeast Ustilago maydis. Molecular Microbiology, 2005, 58, 1482-1496.	2.5	24
70	Programmed cell cycle arrest is required for infection of corn plants by the fungus Ustilago maydis. Development (Cambridge), 2014, 141, 4817-4826.	2.5	24
71	Mre11 and Blm-Dependent Formation of ALT-Like Telomeres in Ku-Deficient Ustilago maydis. PLoS Genetics, 2015, 11, e1005570.	3.5	23
72	Sugar Partitioning between <i>Ustilago maydis</i> and Its Host <i>Zea mays</i> L during Infection. Plant Physiology, 2019, 179, 1373-1385.	4.8	23

#	ARTICLE	IF	CITATIONS
73	Fungal Ku prevents permanent cell cycle arrest by suppressing DNA damage signaling at telomeres. Nucleic Acids Research, 2015, 43, 2138-2151.	14.5	22
74	14-3-3 regulates the G2/M transition in the basidiomycete Ustilago maydis. Fungal Genetics and Biology, 2008, 45, 1206-1215.	2.1	21
75	The distinct wiring between cell cycle regulation and the widely conserved Morphogenesis-Related (MOR) pathway in the fungus Ustilago maydis determines the morphological outcome. Journal of Cell Science, 2012, 125, 4597-608.	2.0	21
76	A member of the Fizzy-related family of APC activators is regulated by cAMP and is required at different stages of plant infection by Ustilago maydis. Journal of Cell Science, 2004, 117, 4143-4156.	2.0	20
77	Spa2 is required for morphogenesis but it is dispensable for pathogenicity in the phytopathogenic fungus Ustilago maydis. Fungal Genetics and Biology, 2008, 45, 1315-1327.	2.1	20
78	DNA-damage response in the basidiomycete fungus Ustilago maydis relies in a sole Chk1-like kinase. DNA Repair, 2009, 8, 720-731.	2.8	20
79	Targeting GSK3 from <i>Ustilago maydis</i>: Type-II Kinase Inhibitors as Potential Antifungals. ACS Chemical Biology, 2012, 7, 1257-1267.	3.4	18
80	Cytoplasmic Transport Machinery of the SPF27 Homologue Num1 in Ustilago maydis. Scientific Reports, 2018, 8, 3611.	3.3	18
81	Galactose metabolism and toxicity in Ustilago maydis. Fungal Genetics and Biology, 2018, 114, 42-52.	2.1	18
82	Identification of the Repressor Subdomain within the Signal Reception Module of the Prokaryotic Enhancer-binding Protein XylR of Pseudomonas putida. Journal of Biological Chemistry, 1996, 271, 7899-7902.	3.4	17
83	Site-specific targeting of exogenous DNA into the genome of Candida albicans using the FLP recombinase. Molecular Genetics and Genomics, 2002, 268, 418-424.	2.1	16
84	Coactivation in vitro of the sigma54-dependent promoter Pu of the TOL plasmid of Pseudomonas putida by HU and the mammalian HMG-1 protein. Journal of Bacteriology, 1997, 179, 2757-2760.	2.2	15
85	Connections between polar growth and cell cycle arrest during the induction of the virulence program in the phytopathogenic fungus<i>Ustilago maydis</i>. Plant Signaling and Behavior, 2008, 3, 480-481.	2.4	15
86	The SPF27 Homologue Num1 Connects Splicing and Kinesin 1-Dependent Cytoplasmic Trafficking in Ustilago maydis. PLoS Genetics, 2014, 10, e1004046.	3.5	15
87	Virulence-specific cell cycle and morphogenesis connections in pathogenic fungi. Seminars in Cell and Developmental Biology, 2016, 57, 93-99.	5.0	15
88	Cdk5 kinase regulates the association between adaptor protein Bem1 and GEF Cdc24 in the fungus Ustilago maydis. Journal of Cell Science, 2008, 121, 2824-2832.	2.0	14
89	Creating novel specificities in a fungal nonself recognition system by single step homologous recombination events. New Phytologist, 2020, 228, 1001-1010.	7.3	13
90	Mode of Binding of the Fur Protein to Target DNA: Negative Regulation of Iron-Controlled Gene Expression. , 0, , 185-196.		13

#	Article	IF	Citations
91	Appressorium formation in the corn smut fungus Ustilago maydis requires a G2 cell cycle arrest. Plant Signaling and Behavior, 2015, 10, e1001227.	2.4	12
92	Ortholog of BRCA2-interacting protein BCCIP controls morphogenetic responses during DNA replication stress in Ustilago maydis. DNA Repair, 2007, 6, 1651-1660.	2.8	11
93	A DNA Damage Checkpoint Pathway Coordinates the Division of Dikaryotic Cells in the Ink Cap Mushroom <i>Coprinopsis cinerea</i>. Genetics, 2013, 195, 47-57.	2.9	11
94	Uniparental mitochondrial DNA inheritance is not affected in Ustilago maydis Î”atg11 mutants blocked in mitophagy. BMC Microbiology, 2015, 15, 23.	3.3	11
95	Initiation of Meiotic Recombination in <i>Ustilago maydis</i>. Genetics, 2013, 195, 1231-1240.	2.9	10
96	A genetic system to study the in vivo role of transcriptional regulators in Escherichia coli. Gene, 1992, 116, 75-80.	2.2	8
97	Dikaryotic cell cycle in the phytopathogenic fungus<i>Ustilago maydis</i>is controlled by the DNA damage response cascade. Plant Signaling and Behavior, 2011, 6, 1574-1577.	2.4	8
98	Chromatin and transcription in Saccharomyces cerevisiae. FEMS Microbiology Reviews, 1999, 23, 503-523.	8.6	7
99	MRN- and 9-1-1-Independent Activation of the ATR-Chk1 Pathway during the Induction of the Virulence Program in the Phytopathogen Ustilago maydis. PLoS ONE, 2015, 10, e0137192.	2.5	7
100	Cytoplasmic retention and degradation of a mitotic inducer enable plant infection by a pathogenic fungus. ELife, 2019, 8, .	6.0	7
101	LAMMER kinase contributes to genome stability in Ustilago maydis. DNA Repair, 2015, 33, 70-77.	2.8	6
102	Protein Phosphatase Ppz1 Is Not Regulated by a Hal3-Like Protein in Plant Pathogen Ustilago maydis. International Journal of Molecular Sciences, 2019, 20, 3817.	4.1	5
103	Incompatibility between proliferation and plant invasion is mediated by a regulator of appressorium formation in the corn smut fungus <i>Ustilago maydis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30599-30609.	7.1	5
104	Cell Cycle and Morphogenesis Connections During the Formation of the Infective Filament in Ustilago maydis. Topics in Current Genetics, 2012, , 97-114.	0.7	4
105	Functional Genomics of Smut Fungi. Advances in Botanical Research, 2014, 70, 143-172.	1.1	4
106	Growth and development: eukaryotes. Current Opinion in Microbiology, 2010, 13, 661-662.	5.1	2
107	Robust Cre recombinase activity in the biotrophic smut fungus <i>Ustilago maydis</i> enables efficient conditional null mutants <i>in planta</i>. Genetics, 2022, 220, .	2.9	1
108	The Nma1 protein promotes long distance transport mediated by early endosomes in Ustilago maydis. Molecular Microbiology, 2021, , .	2.5	1

#	Article	IF	Citations
109	Therapy with antitumor lipids: Worming the way. Cell Cycle, 2014, 13, 2993-2993.	2.6	0
110	Editorial. Seminars in Cell and Developmental Biology, 2016, 57, 68.	5.0	0
111	Programmed cell cycle arrest is required for infection of corn plants by the fungus Ustilago maydis. Journal of Cell Science, 2015, 128, e1-e1.	2.0	0