Marti Aldea

List of Publications by Year
in descending order

69 papers	4,583 citations	172386 29 h-index	128225 60 g-index
74 all docs	74 docs citations	74 times ranked	4551 citing authors

#	Article	IF	Citations
1	New method for generating deletions and gene replacements in Escherichia coli. Journal of Bacteriology, 1989, 171, 4617-4622.	1.0	713
2	A Set of Vectors with a Tetracycline-Regulatable Promoter System for Modulated Gene Expression inSaccharomyces cerevisiae. , 1997, 13, 837-848.		555
3	An activator/repressor dual system allows tight tetracycline-regulated gene expression in budding yeast [published erratum appears in Nucleic Acids Res 1998 Apr 1;26(7):following 1855]. Nucleic Acids Research, 1998, 26, 942-947.	6.5	251
4	The critical size is set at a single-cell level by growth rate to attain homeostasis and adaptation. Nature Communications, 2012, 3, 1012.	5.8	170
5	1,25-Dihydroxyvitamin D3 stimulates vascular smooth muscle cell proliferation through a VEGF-mediated pathway. Kidney International, 2006, 69, 1377-1384.	2.6	164
6	The Cln3 cyclin is down-regulated by translational repression and degradation during the G1 arrest caused by nitrogen deprivation in budding yeast. EMBO Journal, 1997, 16, 7196-7206.	3.5	160
7	1,25-Dihydroxyvitamin D3 regulates VEGF production through a vitamin D response element in the VEGF promoter. Atherosclerosis, 2009, 204, 85-89.	0.4	151
8	Functional analysis of yeast essential genes using a promoter-substitution cassette and the tetracycline-regulatable dual expression system. Yeast, 1998, 14, 1127-1138.	0.8	140
9	Phosphorylation of Hsl1 by Hog1 leads to a G2 arrest essential for cell survival at high osmolarity. EMBO Journal, 2006, 25, 2338-2346.	3.5	127
10	Identification, cloning, and expression of bolA, an ftsZ-dependent morphogene of Escherichia coli. Journal of Bacteriology, 1988, 170, 5169-5176.	1.0	126
11	Cyclin Cln3 Is Retained at the ER and Released by the J Chaperone Ydj1 in Late G1 to Trigger Cell Cycle Entry. Molecular Cell, 2007, 26, 649-662.	4.5	101
12	Whi3 binds the mRNA of the G₁ cyclin CLN3 to modulate cell fate in budding yeast. Genes and Development, 2001, 15, 2803-2808.	2.7	96
13	Interaction of FtsA and PBP3 proteins in the Escherichia coli septum. Journal of Bacteriology, 1986, 166, 985-992.	1.0	94
14	The role of the â€˜gearboxâ€™ in the transcription of essential genes. Molecular Microbiology, 1991, 5, 2085-2091.	1.2	89
15	Osmotic stress causes a G1 cell cycle delay and downregulation of Cln3/Cdc28 activity in Saccharomyces cerevisiae. Molecular Microbiology, 2001, 39, 1022-1035.	1.2	86
16	G1 cyclins block the Ime1 pathway to make mitosis and meiosis incompatible in budding yeast. EMBO Journal, 1999, 18, 320-329.	3.5	84
17	Preferential cytoplasmic location of FtsZ, a protein essential for Escherichia coli septation. Molecular Microbiology, 1991, 5, 1681-1686.	1.2	82
18	TheAFT1 Transcriptional Factor is Differentially Required for Expression of High-Affinity Iron Uptake Genes inSaccharomyces cerevisiae. Yeast, 1997, 13, 621-637.	0.8	82

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19	Basic Helix-Loop-Helix Proteins Bind to TrkB and p21 Cip1 Promoters Linking Differentiation and Cell Cycle Arrest in Neuroblastoma Cells. Molecular and Cellular Biology, 2004, 24, 2662-2672.	1.1	79
20	The Yeast Ser/Thr Phosphatases Sit4 and Ppz1 Play Opposite Roles in Regulation of the Cell Cycle. Molecular and Cellular Biology, 1999, 19, 2408-2415.	1.1	78
21	Recruitment of Cdc28 by Whi3 restricts nuclear accumulation of the G1 cyclinâ€“Cdk complex to late G1. EMBO Journal, 2004, 23, 180-190.	3.5	72
22	An efficient method to isolate yeast genes causing overexpression-mediated growth arrest. Yeast, 1995, 11, 25-32.	0.8	70
23	The transcriptional network activated by Cln3 cyclin at the G1-to-S transition of the yeast cell cycle. Genome Biology, 2010, 11, R67.	13.9	66
24	The nucleotide sequence of Saccharomyces cerevisiae chromosome XV. Nature, 1997, 387, 98-102.	13.7	54
25	Compartmentalization of ER-Bound Chaperone Confines Protein Deposit Formation to the Aging Yeast Cell. Current Biology, 2017, 27, 773-783.	1.8	54
26	Biogenesis of Yeast Telomerase Depends on the Importin Mtr10. Molecular and Cellular Biology, 2002, 22, 6046-6055.	1.1	50
27	A Whi7-Anchored Loop Controls the G1 Cdk-Cyclin Complex at Start. Molecular Cell, 2014, 53, 115-126.	4.5	46
28	Transcript mapping using [35S]DNA probes, trichloroacetate solvent and dideoxy sequencing ladders: a rapid method for identification of transcriptional start points. Gene, 1988, 65, 101-110.	1.0	45
29	p21WAF1/Cip1 expression is associated with cell differentiation but not with p53 mutations in squamous cell carcinomas of the larynx. , 1997, 183, 156-163.		44
30	Whi3, a Developmental Regulator of Budding Yeast, Binds a Large Set of mRNAs Functionally Related to the Endoplasmic Reticulum. Journal of Biological Chemistry, 2008, 283, 28670-28679.	1.6	44
31	The umpA gene of Escherichia coli encodes phosphatidylglycerol:prolipoprotein diacylglyceryl transferase (lgt) and regulates thymidylate synthase levels through translational coupling. Journal of Bacteriology, 1995, 177, 1879-1882.	1.0	38
32	Protein Kinase KIS Localizes to RNA Granules and Enhances Local Translation. Molecular and Cellular Biology, 2009, 29, 726-735.	1.1	34
33	Growth Rate as a Direct Regulator of the Start Network to Set Cell Size. Frontiers in Cell and Developmental Biology, 2017, 5, 57.	1.8	34
34	Phosphate-Activated Cyclin-Dependent Kinase Stabilizes G₁ Cyclin To Trigger Cell Cycle Entry. Molecular and Cellular Biology, 2013, 33, 1273-1284.	1.1	29
35	Nucleosome architecture throughout the cell cycle. Scientific Reports, 2016, 6, 19729.	1.6	29
36	Escherichia coli mrsC Is an Allele of hflB , Encoding a Membrane-Associated ATPase and Protease That Is Required for mRNA Decay. Journal of Bacteriology, 1998, 180, 1929-1938.	1.0	29

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37	TOR Regulates the Subcellular Localization of Ime1, a Transcriptional Activator of Meiotic Development in Budding Yeast. Molecular and Cellular Biology, 2003, 23, 7415-7424.	1.1	28
38	Bck2 is a phase-independent activator of cell cycle-regulated genes in yeast. Cell Cycle, 2009, 8, 239-252.	1.3	28
39	Proteostasis collapse, a hallmark of aging, hinders the chaperone-Start network and arrests cells in G1. ELife, 2019, 8, .	2.8	28
40	Coupling between DNA replication and cell division mediated by the FtsA protein in Escherichia coli: a pathway independent of the SOS response, the "TER" pathway. Journal of Bacteriology, 1985, 164, 950-953.	1.0	27
41	Cyclin D1 interacts and collaborates with Ral GTPases enhancing cell detachment and motility. Oncogene, 2011, 30, 1936-1946.	2.6	25
42	KIS, a Kinase Associated with Microtubule Regulators, Enhances Translation of AMPA Receptors and Stimulates Dendritic Spine Remodeling. Journal of Neuroscience, 2014, 34, 13988-13997.	1.7	24
43	Cdc48/p97 segregase is modulated by cyclinâ€dependent kinase to determine cyclin fate during G1 progression. EMBO Journal, 2018, 37, .	3.5	24
44	Inntags: small self-structured epitopes for innocuous protein tagging. Nature Methods, 2015, 12, 955-958.	9.0	22
45	Generation of a detailed physical and genetic map of the ilv-metE-udp region of the Escherichia coli chromosome. Journal of Molecular Biology, 1988, 200, 427-438.	2.0	20
46	Control of Cell Cycle and Cell Growth by Molecular Chaperones. Cell Cycle, 2007, 6, 2599-2603.	1.3	19
47	XV. Yeast sequencing reports. DNA sequence analysis of a 13 kbp fragment of the left arm of yeast chromosome XV containing seven new open reading frames. Yeast, 1995, 11, 1281-1288.	0.8	14
48	Stress granules display bistable dynamics modulated by Cdk. Journal of Cell Biology, 2021, 220, .	2.3	14
49	Structural inhibition and reactivation of Escherichia coli septation by elements of the SOS and TER pathways. Journal of Bacteriology, 1987, 169, 1772-1776.	1.0	13
50	Translokin (Cep57) Interacts with Cyclin D1 and Prevents Its Nuclear Accumulation in Quiescent Fibroblasts. Traffic, 2011, 12, 549-562.	1.3	13
51	Competition in the chaperone-client network subordinates cell-cycle entry to growth and stress. Life Science Alliance, 2019, 2, e201800277.	1.3	13
52	Whi5 is diluted and protein synthesis does not dramatically increase in pre-Start G1. Molecular Biology of the Cell, 2022, 33, lt1.	0.9	13
53	On the chronology and topography of bacterial cell division. Research in Microbiology, 1991, 142, 253-257.	1.0	12
54	Whi3 regulates morphogenesis in budding yeast by enhancing Cdk functions in apical growth. Cell Cycle, 2009, 8, 1912-1920.	1.3	11

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55	Mixed Lineage Kinase Phosphorylates Transcription Factor E47 and Inhibits TrkB Expression to Link Neuronal Death and Survival Pathways. Journal of Biological Chemistry, 2009, 284, 32980-32988.	1.6	10
56	Gearbox gene expression and growth rate. World Journal of Microbiology and Biotechnology, 1993, 9, 414-420.	1.7	8
57	Proteostatic stress as a nodal hallmark of replicative aging. Experimental Cell Research, 2020, 394, 112163.	1.2	8
58	Constancy of diameter through the cell cycle ofSalmonella typhimurium LT2. Current Microbiology, 1982, 7, 165-168.	1.0	7
59	XV. Yeast sequencing reports. Sequence analysis of a 9873 bp fragment of the left arm of yeast chromosome XV that contains theARG8 andCDC33 genes, a putative riboflavin synthase beta chain gene, and four new open reading frames. Yeast, 1995, 11, 1061-1067.	0.8	6
60	Sequence analysis of a 13Â·4 kbp fragment from the left arm of chromosome XV reveals a malate dehydrogenase gene, a putative Ser/Thr protein kinase, the ribosomal L25 gene and four new open reading frames. Yeast, 1996, 12, 1013-1020.	0.8	6
61	CLONING: a microcomputer program for cloning simulations. Gene, 1988, 65, 111-116.	1.0	4
62	Analysis of the DNA sequence of a 15,500 bp fragment near the left telomere of chromosome XV from Saccharomyces cerevisiae reveals a putative sugar transporter, a carboxypeptidase homologue and two new open reading frames. Yeast, 1996, 12, 709-714.	0.8	4
63	Sequence analysis of a 12 801 bp fragment of the left arm of yeast chromosome XV containing a putative 6-phosphofructo-2-kinase gene, a gene for a possible glycophospholipid-anchored surface protein and six other open reading frames. Yeast, 1996, 12, 1053-1058.	0.8	4
64	Segregation of elongation potential inEscherichia coli mediated by thewee genetic system. Current Microbiology, 1988, 17, 315-319.	1.0	3
65	Coincidence Analysis of Molecular Dynamics by Raster Image Correlation Spectroscopy. Methods in Molecular Biology, 2019, 2040, 375-384.	0.4	3
66	Instructions for the CLONING program. Gene, 1988, 65, 117-122.	1.0	2
67	A standardized format for handling data on plasmids, viruses and transposons: The PVT database format. World Journal of Microbiology and Biotechnology, 1992, 8, 519-526.	1.7	1
68	Centromeric signaling proteins boost G1 cyclin degradation and modulate cell size in budding yeast. PLoS Biology, 2018, 16, e2005388.	2.6	1
69	Mad3 modulates the G ₁ Cdk and acts as a timer in the Start network. Science Advances, 2022, 8, eabm4086.	4.7	1