

Andrew W Murray

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

8,058
citations

236612

25
h-index

128067

60
g-index

91
all docs

91
docs citations

91
times ranked

7288
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclin is degraded by the ubiquitin pathway. <i>Nature</i> , 1991, 349, 132-138.	13.7	2,321
2	Feedback control of mitosis in budding yeast. <i>Cell</i> , 1991, 66, 519-531.	13.5	1,153
3	Recycling the Cell Cycle. <i>Cell</i> , 2004, 116, 221-234.	13.5	968
4	Creative blocks: cell-cycle checkpoints and feedback controls. <i>Nature</i> , 1992, 359, 599-601.	13.7	712
5	The Speed of Evolution and Maintenance of Variation in Asexual Populations. <i>Current Biology</i> , 2007, 17, 385-394.	1.8	291
6	Requirement of the Spindle Checkpoint for Proper Chromosome Segregation in Budding Yeast Meiosis. <i>Science</i> , 2000, 289, 300-303.	6.0	217
7	Niche engineering demonstrates a latent capacity for fungal-algal mutualism. <i>Science</i> , 2014, 345, 94-98.	6.0	192
8	Cell cycle checkpoints. <i>Current Opinion in Cell Biology</i> , 1994, 6, 872-876.	2.6	187
9	Genetic drift opposes mutualism during spatial population expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1037-1042.	3.3	173
10	Exploring genetic suppression interactions on a global scale. <i>Science</i> , 2016, 354, .	6.0	157
11	Selective sweeps in growing microbial colonies. <i>Physical Biology</i> , 2012, 9, 026008.	0.8	150
12	Improved use of a public good selects for the evolution of undifferentiated multicellularity. <i>ELife</i> , 2013, 2, e00367.	2.8	119
13	Many, but not all, lineage-specific genes can be explained by homology detection failure. <i>PLoS Biology</i> , 2020, 18, e3000862.	2.6	113
14	Positive-Feedback Loops as a Flexible Biological Module. <i>Current Biology</i> , 2007, 17, 668-677.	1.8	108
15	Spo13 protects meiotic cohesin at centromeres in meiosis I. <i>Genes and Development</i> , 2002, 16, 1659-1671.	2.7	85
16	A Novel Yeast Screen for Mitotic Arrest Mutants Identifies <i>DOC1</i> , a New Gene Involved in Cyclin Proteolysis. <i>Molecular Biology of the Cell</i> , 1997, 8, 1877-1887.	0.9	83
17	Evolutionary adaptation after crippling cell polarization follows reproducible trajectories. <i>ELife</i> , 2015, 4, .	2.8	63
18	The mitotic feedback control gene <i>MAD2</i> encodes the $\hat{\pm}$ -subunit of a prenyltransferase. <i>Nature</i> , 1993, 366, 82-84.	13.7	55

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19	Lesions in Many Different Spindle Components Activate the Spindle Checkpoint in the Budding Yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1999, 152, 509-518.	1.2	53
20	A Putative Bet-Hedging Strategy Buffers Budding Yeast against Environmental Instability. <i>Current Biology</i> , 2020, 30, 4563-4578.e4.	1.8	46
21	Physical interactions reduce the power of natural selection in growing yeast colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11448-11453.	3.3	43
22	Polymerization in the actin ATPase clan regulates hexokinase activity in yeast. <i>Science</i> , 2020, 367, 1039-1042.	6.0	41
23	Cohesion is established during DNA replication utilising chromosome associated cohesin rings as well as those loaded de novo onto nascent DNAs. <i>ELife</i> , 2020, 9, .	2.8	36
24	Mixing genome annotation methods in a comparative analysis inflates the apparent number of lineage-specific genes. <i>Current Biology</i> , 2022, 32, 2632-2639.e2.	1.8	36
25	A brief history of error. <i>Nature Cell Biology</i> , 2011, 13, 1178-1182.	4.6	35
26	How Obstacles Perturb Population Fronts and Alter Their Genetic Structure. <i>PLoS Computational Biology</i> , 2015, 11, e1004615.	1.5	29
27	Chromosomal attachments set length and microtubule number in the <i>Saccharomyces cerevisiae</i> mitotic spindle. <i>Molecular Biology of the Cell</i> , 2014, 25, 4034-4048.	0.9	28
28	Cell-size regulation in budding yeast does not depend on linear accumulation of Whi5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14243-14250.	3.3	28
29	The evolutionary plasticity of chromosome metabolism allows adaptation to constitutive DNA replication stress. <i>ELife</i> , 2020, 9, .	2.8	28
30	Heterozygous mutations cause genetic instability in a yeast model of cancer evolution. <i>Nature</i> , 2019, 566, 275-278.	13.7	27
31	Cyclins in meiosis and mitosis. <i>Nature</i> , 1987, 326, 542-543.	13.7	26
32	Details Matter: Noise and Model Structure Set the Relationship between Cell Size and Cell Cycle Timing. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 92.	1.8	26
33	Can gene-inactivating mutations lead to evolutionary novelty?. <i>Current Biology</i> , 2020, 30, R465-R471.	1.8	26
34	Spatially Constrained Growth Enhances Conversional Meltdown. <i>Biophysical Journal</i> , 2016, 110, 2800-2808.	0.2	25
35	Genetic drift and selection in many-allele range expansions. <i>PLoS Computational Biology</i> , 2017, 13, e1005866.	1.5	25
36	Rapid toxin sequestration modifies poison frog physiology. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	23

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37	Growing Yeast into Cylindrical Colonies. <i>Biophysical Journal</i> , 2014, 106, 2214-2221.	0.2	22
38	A cycle is a cycle is a cycle. <i>Nature</i> , 1987, 327, 14-15.	13.7	21
39	Evolutionary Repair Experiments as a Window to the Molecular Diversity of Life. <i>Current Biology</i> , 2020, 30, R565-R574.	1.8	19
40	A Predictive Model for Yeast Cell Polarization in Pheromone Gradients. <i>PLoS Computational Biology</i> , 2016, 12, e1004795.	1.5	18
41	Multicellularity makes somatic differentiation evolutionarily stable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8362-8367.	3.3	18
42	Seasonal changes in diet and chemical defense in the Climbing Mantella frog (<i>Mantella laevis</i>). <i>PLoS ONE</i> , 2018, 13, e0207940.	1.1	18
43	A mitotic inducer matures. <i>Nature</i> , 1988, 335, 207-208.	13.7	17
44	A Model for Cell Wall Dissolution in Mating Yeast Cells: Polarized Secretion and Restricted Diffusion of Cell Wall Remodeling Enzymes Induces Local Dissolution. <i>PLoS ONE</i> , 2014, 9, e109780.	1.1	17
45	Evolving a 24-hr oscillator in budding yeast. <i>ELife</i> , 2014, 3, .	2.8	17
46	Selecting for Altered Substrate Specificity Reveals the Evolutionary Flexibility of ATP-Binding Cassette Transporters. <i>Current Biology</i> , 2020, 30, 1689-1702.e6.	1.8	16
47	A Model for the Evolution of Biological Specificity: a Cross-Reacting DNA-Binding Protein Causes Plasmid Incompatibility. <i>Journal of Bacteriology</i> , 2014, 196, 3002-3011.	1.0	15
48	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis. <i>PLoS Biology</i> , 2020, 18, e3000635.	2.6	15
49	Microbial Range Expansions on Liquid Substrates. <i>Physical Review X</i> , 2019, 9, .	2.8	14
50	Tethering Sister Centromeres to Each Other Suggests the Spindle Checkpoint Detects Stretch within the Kinetochore. <i>PLoS Genetics</i> , 2014, 10, e1004492.	1.5	13
51	Conservation Weighting Functions Enable Covariance Analyses to Detect Functionally Important Amino Acids. <i>PLoS ONE</i> , 2014, 9, e107723.	1.1	10
52	Don't Make Me Mad, Bub!. <i>Developmental Cell</i> , 2012, 22, 1123-1125.	3.1	9
53	Rum tale of replication. <i>Nature</i> , 1994, 367, 219-220.	13.7	8
54	Antagonism between killer yeast strains as an experimental model for biological nucleation dynamics. <i>ELife</i> , 2021, 10, .	2.8	8

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55	Ploidy and recombination proficiency shape the evolutionary adaptation to constitutive DNA replication stress. PLoS Genetics, 2021, 17, e1009875.	1.5	6
56	Sunburnt fission yeast. Nature, 1993, 363, 302-302.	13.7	4
57	Salvador Luria and Max Delbrück on Random Mutation and Fluctuation Tests. Genetics, 2016, 202, 367-368.	1.2	4
58	Modeling the impact of single-cell stochasticity and size control on the population growth rate in asymmetrically dividing cells. PLoS Computational Biology, 2021, 17, e1009080.	1.5	4
59	When it comes to teaching and tenure it is time to walk the walk. ELife, 2019, 8, .	2.8	2
60	Paul Nurse and Pierre Thuriaux on wee Mutants and Cell Cycle Control. Genetics, 2016, 204, 1325-1326.	1.2	0
61	A Yeast Model for the Evolution of Multicellularity and Cellular Differentiation. FASEB Journal, 2013, 27, lb241.	0.2	0
62	Rocket yeast. Physical Review Fluids, 2021, 6, .	1.0	0
63	Title is missing!. , 2020, 18, e3000635.		0
64	Title is missing!. , 2020, 18, e3000635.		0
65	Title is missing!. , 2020, 18, e3000635.		0
66	Title is missing!. , 2020, 18, e3000635.		0
67	Many, but not all, lineage-specific genes can be explained by homology detection failure. , 2020, 18, e3000862.		0
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