

# Andrew W Murray

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

6,658  
citations

21  
h-index

81  
g-index

91  
ext. papers

7,431  
ext. citations

15.7  
avg, IF

6.23  
L-index

#	Paper	IF	Citations
71	Cyclin is degraded by the ubiquitin pathway. <i>Nature</i> , <b>1991</b> , 349, 132-8	50.4	2102
70	Feedback control of mitosis in budding yeast. <i>Cell</i> , <b>1991</b> , 66, 519-31	56.2	1044
69	Recycling the cell cycle: cyclins revisited. <i>Cell</i> , <b>2004</b> , 116, 221-34	56.2	892
68	Creative blocks: cell-cycle checkpoints and feedback controls. <i>Nature</i> , <b>1992</b> , 359, 599-604	50.4	649
67	The speed of evolution and maintenance of variation in asexual populations. <i>Current Biology</i> , <b>2007</b> , 17, 385-94	6.3	226
66	Requirement of the spindle checkpoint for proper chromosome segregation in budding yeast meiosis. <i>Science</i> , <b>2000</b> , 289, 300-3	33.3	186
65	Cell cycle checkpoints. <i>Current Opinion in Cell Biology</i> , <b>1994</b> , 6, 872-6	9	149
64	Plant-fungal ecology. Niche engineering demonstrates a latent capacity for fungal-algal mutualism. <i>Science</i> , <b>2014</b> , 345, 94-8	33.3	143
63	Genetic drift opposes mutualism during spatial population expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1037-42	11.5	114
62	Selective sweeps in growing microbial colonies. <i>Physical Biology</i> , <b>2012</b> , 9, 026008	3	107
61	Exploring genetic suppression interactions on a global scale. <i>Science</i> , <b>2016</b> , 354,	33.3	103
60	Positive-feedback loops as a flexible biological module. <i>Current Biology</i> , <b>2007</b> , 17, 668-77	6.3	87
59	Improved use of a public good selects for the evolution of undifferentiated multicellularity. <i>ELife</i> , <b>2013</b> , 2, e00367	8.9	82
58	A novel yeast screen for mitotic arrest mutants identifies DOC1, a new gene involved in cyclin proteolysis. <i>Molecular Biology of the Cell</i> , <b>1997</b> , 8, 1877-87	3.5	77
57	Spo13 protects meiotic cohesin at centromeres in meiosis I. <i>Genes and Development</i> , <b>2002</b> , 16, 1659-71	12.6	73
56	Lesions in many different spindle components activate the spindle checkpoint in the budding yeast <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , <b>1999</b> , 152, 509-18	4	47
55	The mitotic feedback control gene MAD2 encodes the alpha-subunit of a prenyltransferase. <i>Nature</i> , <b>1993</b> , 366, 82-4	50.4	46

54	Evolutionary adaptation after crippling cell polarization follows reproducible trajectories. <i>ELife</i> , <b>2015</b> , 4,	8.9	43
53	A brief history of error. <i>Nature Cell Biology</i> , <b>2011</b> , 13, 1178-82	23.4	30
52	Many, but not all, lineage-specific genes can be explained by homology detection failure. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000862	9.7	26
51	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> , <b>2018</b> , 115, 11448-11453	11.5	24
50	How Obstacles Perturb Population Fronts and Alter Their Genetic Structure. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004615	5	19
49	Chromosomal attachments set length and microtubule number in the <i>Saccharomyces cerevisiae</i> mitotic spindle. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 4034-48	3.5	18
48	Details Matter: Noise and Model Structure Set the Relationship between Cell Size and Cell Cycle Timing. <i>Frontiers in Cell and Developmental Biology</i> , <b>2017</b> , 5, 92	5.7	17
47	The evolutionary plasticity of chromosome metabolism allows adaptation to constitutive DNA replication stress. <i>ELife</i> , <b>2020</b> , 9,	8.9	16
46	A Putative Bet-Hedging Strategy Buffers Budding Yeast against Environmental Instability. <i>Current Biology</i> , <b>2020</b> , 30, 4563-4578.e4	6.3	16
45	Spatially Constrained Growth Enhances Conversional Meltdown. <i>Biophysical Journal</i> , <b>2016</b> , 110, 2800-2808	5.8	16
44	Heterozygous mutations cause genetic instability in a yeast model of cancer evolution. <i>Nature</i> , <b>2019</b> , 566, 275-278	50.4	15
43	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> , <b>2014</b> , 9, e109780	3.7	15
42	A Predictive Model for Yeast Cell Polarization in Pheromone Gradients. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004795	5	15
41	Genetic drift and selection in many-allele range expansions. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005366	5.8	14
40	Growing yeast into cylindrical colonies. <i>Biophysical Journal</i> , <b>2014</b> , 106, 2214-21	2.9	14
39	Evolving a 24-hr oscillator in budding yeast. <i>ELife</i> , <b>2014</b> , 3,	8.9	14
38	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> , <b>2020</b> , 117, 14243-14250	11.5	13
37	Polymerization in the actin ATPase clan regulates hexokinase activity in yeast. <i>Science</i> , <b>2020</b> , 367, 1039-1042	33.3	13

36	Cohesion is established during DNA replication utilising chromosome associated cohesin rings as well as those loaded de novo onto nascent DNAs. <i>ELife</i> , <b>2020</b> , 9,	8.9	13
35	Tethering sister centromeres to each other suggests the spindle checkpoint detects stretch within the kinetochore. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004492	6	11
34	A model for the evolution of biological specificity: a cross-reacting DNA-binding protein causes plasmid incompatibility. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 3002-11	3.5	10
33	Seasonal changes in diet and chemical defense in the Climbing Mantella frog ( <i>Mantella laevigata</i> ). <i>PLoS ONE</i> , <b>2018</b> , 13, e0207940	3.7	10
32	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000635	9.7	9
31	Multicellularity makes somatic differentiation evolutionarily stable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8362-7	11.5	9
30	Can gene-inactivating mutations lead to evolutionary novelty?. <i>Current Biology</i> , <b>2020</b> , 30, R465-R471	6.3	8
29	Conservation weighting functions enable covariance analyses to detect functionally important amino acids. <i>PLoS ONE</i> , <b>2014</b> , 9, e107723	3.7	8
28	Don't make me mad, Bub!. <i>Developmental Cell</i> , <b>2012</b> , 22, 1123-5	10.2	8
27	Evolutionary Repair Experiments as a Window to the Molecular Diversity of Life. <i>Current Biology</i> , <b>2020</b> , 30, R565-R574	6.3	8
26	Many but not all lineage-specific genes can be explained by homology detection failure		5
25	Selecting for Altered Substrate Specificity Reveals the Evolutionary Flexibility of ATP-Binding Cassette Transporters. <i>Current Biology</i> , <b>2020</b> , 30, 1689-1702.e6	6.3	5
24	Microbial Range Expansions on Liquid Substrates. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	4
23	Rapid toxin sequestration modifies poison frog physiology. <i>Journal of Experimental Biology</i> , <b>2021</b> , 224,	3	4
22	Salvador Luria and Max Delbrück on Random Mutation and Fluctuation Tests. <i>Genetics</i> , <b>2016</b> , 202, 367-8	4	2
21	Bet hedging buffers budding yeast against environmental instability		2
20	Modeling the impact of single-cell stochasticity and size control on the population growth rate in asymmetrically dividing cells. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009080	5	2
19	Mixing genome annotation methods in a comparative analysis inflates the apparent number of lineage-specific genes		1

18	Ploidy and recombination proficiency shape the evolutionary adaptation to constitutive DNA replication stress. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009875	6	1
17	When it comes to teaching and tenure it is time to walk the walk. <i>ELife</i> , <b>2019</b> , 8,	8.9	1
16	Physical interactions reduce the power of natural selection in growing yeast colonies		1
15	Independent evolution of polymerization in the Actin ATPase clan regulates hexokinase activity		1
14	Cell size regulation in budding yeast does not depend on linear accumulation of Whi5		1
13	Antagonism between killer yeast strains as an experimental model for biological nucleation dynamics. <i>ELife</i> , <b>2021</b> , 10,	8.9	1
12	A Yeast Model for the Evolution of Multicellularity and Cellular Differentiation. <i>FASEB Journal</i> , <b>2013</b> , 27, lb241	0.9	
11	Paul Nurse and Pierre Thuriaux on wee Mutants and Cell Cycle Control. <i>Genetics</i> , <b>2016</b> , 204, 1325-1326	4	
10	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis <b>2020</b> , 18, e3000635		
9	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis <b>2020</b> , 18, e3000635		
8	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis <b>2020</b> , 18, e3000635		
7	Evolutionary repair: Changes in multiple functional modules allow meiotic cohesin to support mitosis <b>2020</b> , 18, e3000635		
6	Many, but not all, lineage-specific genes can be explained by homology detection failure <b>2020</b> , 18, e3000862		
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2	Many, but not all, lineage-specific genes can be explained by homology detection failure <b>2020</b> , 18, e3000862		
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