# Bruce Futcher

List of Publications by Year
in descending order



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|---|---|---|---|
| 63 papers | 10,215 citations | 117453 34 h-index | 128067 60 g-index |
| 67 all docs | 67 docs citations | 67 times ranked | 7912 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comprehensive Identification of Cell Cycleâ€“regulated Genes of the Yeast<i>Saccharomyces cerevisiae</i>by Microarray Hybridization. Molecular Biology of the Cell, 1998, 9, 3273-3297. | 0.9 | 4,372 |
| 2 | Human D-type cyclin. Cell, 1991, 65, 691-699. | 13.5 | 709 |
| 3 | Virus Attenuation by Genome-Scale Changes in Codon Pair Bias. Science, 2008, 320, 1784-1787. | 6.0 | 580 |
| 4 | Role of a ubiquitin-conjugating enzyme in degradation of S- and M-phase cyclins. Nature, 1995, 373, 78-81. | 13.7 | 486 |
| 5 | Mechanisms that help the yeast cell cycle clock tick: G2 cyclins transcriptionally activate G2 cyclins and repress G1 cyclins. Cell, 1993, 74, 993-1007. | 13.5 | 356 |
| 6 | Two yeast forkhead genes regulate the cell cycle and pseudohyphal growth. Nature, 2000, 406, 90-94. | 13.7 | 353 |
| 7 | Live attenuated influenza virus vaccines by computer-aided rational design. Nature Biotechnology, 2010, 28, 723-726. | 9.4 | 248 |
| 8 | Inhibition of Gl cyclin activity by the Ras/cAMP pathway in yeast. Nature, 1994, 371, 342-345. | 13.7 | 205 |
| 9 | Measurement of average decoding rates of the 61 sense codons in vivo. ELife, 2014, 3, . | 2.8 | 179 |
| 10 | The Cell Cycleâ€“Regulated Genes of Schizosaccharomyces pombe. PLoS Biology, 2005, 3, e225. | 2.6 | 173 |
| 11 | Proteome studies ofSaccharomyces cerevisiae: Identification and characterization of abundant proteins. Electrophoresis, 1997, 18, 1347-1360. | 1.3 | 143 |
| 12 | Cdc28â€“Clb5 (CDK-S) and Cdc7â€“Dbf4 (DDK) collaborate to initiate meiotic recombination in yeast. Genes and Development, 2008, 22, 386-397. | 2.7 | 124 |
| 13 | Synergy Between Trehalose and Hsp104 for Thermotolerance in <i>Saccharomyces cerevisiae</i>. Genetics, 1996, 144, 923-933. | 1.2 | 112 |
| 14 | Transcriptional regulatory networks and the yeast cell cycle. Current Opinion in Cell Biology, 2002, 14, 676-683. | 2.6 | 105 |
| 15 | Daughter-Specific Transcription Factors Regulate Cell Size Control in Budding Yeast. PLoS Biology, 2009, 7, e1000221. | 2.6 | 102 |
| 16 | The Est1 Subunit of Yeast Telomerase Binds the Tlc1 Telomerase RNA. Molecular and Cellular Biology, 2000, 20, 1947-1955. | 1.1 | 100 |
| 17 | Protein identifications for aSaccharomyces cerevisiae protein database. Electrophoresis, 1994, 15, 1466-1486. | 1.3 | 98 |
| 18 | Recruitment of Cln3 Cyclin to Promoters Controls Cell Cycle Entry via Histone Deacetylase and Other Targets. PLoS Biology, 2009, 7, e1000189. | 2.6 | 98 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Whi3 binds the mRNA of the G<sub>1</sub> cyclin <i>CLN3</i> to modulate cell fate in budding yeast. Genes and Development, 2001, 15, 2803-2808. | 2.7 | 96 |
| 20 | Large-scale recoding of an arbovirus genome to rebalance its insect versus mammalian preference. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4749-4754. | 3.3 | 93 |
| 21 | Deliberate reduction of hemagglutinin and neuraminidase expression of influenza virus leads to an ultraprotective live vaccine in mice. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9481-9486. | 3.3 | 91 |
| 22 | A developmentally regulated translational control pathway establishes the meiotic chromosome segregation pattern. Genes and Development, 2013, 27, 2147-2163. | 2.7 | 90 |
| 23 | The G 1 Cyclin Cln3 Promotes Cell Cycle Entry via the Transcription Factor Swi6. Molecular and Cellular Biology, 2002, 22, 4402-4418. | 1.1 | 83 |
| 24 | Stress resistance of yeast cells is largely independent of cell cycle phase. Yeast, 1993, 9, 33-42. | 0.8 | 81 |
| 25 | Cell cycle synchronization. , 1999, 21, 79-86. | | 75 |
| 26 | The Fission Yeast RNA Binding Protein Mmi1 Regulates Meiotic Genes by Controlling Intron Specific Splicing and Polyadenylation Coupled RNA Turnover. PLoS ONE, 2011, 6, e26804. | 1.1 | 73 |
| 27 | Cyclin-Dependent Kinase Co-Ordinates Carbohydrate Metabolism and Cell Cycle in S.Âcerevisiae. Molecular Cell, 2016, 62, 546-557. | 4.5 | 71 |
| 28 | Yeast G1 cyclins are unstable in G1 phase. Nature, 1998, 395, 86-89. | 13.7 | 67 |
| 29 | Genetic Analysis of the Shared Role of CLN3 and BCK2 at the G1-S Transition in Saccharomyces cerevisiae. Genetics, 1999, 153, 1131-1143. | 1.2 | 67 |
| 30 | Growth Rate and Cell Size Modulate the Synthesis of, and Requirement for, G 1 -Phase Cyclins at Start. Molecular and Cellular Biology, 2004, 24, 10802-10813. | 1.1 | 65 |
| 31 | Metabolic cycle, cell cycle, and the finishing kick to Start. Genome Biology, 2006, 7, 107. | 13.9 | 65 |
| 32 | Cyclins and the wiring of the yeast cell cycle. Yeast, 1996, 12, 1635-46. | 0.8 | 57 |
| 33 | Differential Scaling of Gene Expression with Cell Size May Explain Size Control in Budding Yeast. Molecular Cell, 2020, 78, 359-370.e6. | 4.5 | 53 |
| 34 | Association of Human Fas (CD95) with a Ubiquitin-conjugating Enzyme (UBC-FAP). Journal of Biological Chemistry, 1996, 271, 31037-31043. | 1.6 | 52 |
| 35 | Biogenesis of Yeast Telomerase Depends on the Importin Mtr10. Molecular and Cellular Biology, 2002, 22, 6046-6055. | 1.1 | 50 |
| 36 | Microarrays and cell cycle transcription in yeast. Current Opinion in Cell Biology, 2000, 12, 710-715. | 2.6 | 46 |

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|---|---|---|---|
| 37 | Effects of the Yeast RNA-Binding Protein Whi3 on the Half-Life and Abundance of CLN3 mRNA and Other Targets. PLoS ONE, 2013, 8, e84630. | 1.1 | 43 |
| 38 | Identification of two functionally redundant RNA elements in the coding sequence of poliovirus using computer-generated design. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14301-14307. | 3.3 | 37 |
| 39 | Bck2 is a phase-independent activator of cell cycle-regulated genes in yeast. Cell Cycle, 2009, 8, 239-252. | 1.3 | 28 |
| 40 | A new transcription factor for mitosis: in<i>Schizosaccharomyces pombe</i>, the RFX transcription factor Sak1 works with forkhead factors to regulate mitotic expression. Nucleic Acids Research, 2015, 43, 6874-6888. | 6.5 | 28 |
| 41 | Repression of Meiotic Genes by Antisense Transcription and by Fkh2 Transcription Factor in Schizosaccharomyces pombe. PLoS ONE, 2012, 7, e29917. | 1.1 | 28 |
| 42 | Reply to Simmonds et al.: Codon pair and dinucleotide bias have not been functionally distinguished. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3635-6. | 3.3 | 25 |
| 43 | Re-annotation of 12,495 prokaryotic 16S rRNA 3â€™ ends and analysis of Shine-Dalgarno and anti-Shine-Dalgarno sequences. PLoS ONE, 2018, 13, e0202767. | 1.1 | 22 |
| 44 | ASaccharomyces cerevisiae Internet protein resource now available. Electrophoresis, 1995, 16, 1170-1174. | 1.3 | 21 |
| 45 | Cloning of the vaccinia virus telomere in a yeast plasmid vector. Gene, 1984, 27, 13-21. | 1.0 | 19 |
| 46 | Supercoiling and transcription, or vice versa?. Trends in Genetics, 1988, 4, 271-272. | 2.9 | 18 |
| 47 | The non-homologous end-joining pathway of S. cerevisiae works effectively in G1-phase cells, and religates cognate ends correctly and non-randomly. DNA Repair, 2016, 42, 1-10. | 1.3 | 16 |
| 48 | Copy Correction and Concerted Evolution in the Conservation of Yeast Genes. Genetics, 2005, 170, 1501-1513. | 1.2 | 11 |
| 49 | King of the Castle: Competition between Repressors and Activators on the Mcm1 Platform. Molecular Cell, 2010, 38, 1-2. | 4.5 | 11 |
| 50 | Relative contributions of the structural and catalytic roles of Rrp6 in exosomal degradation of individual mRNAs. Rna, 2016, 22, 1311-1319. | 1.6 | 11 |
| 51 | <i>mmi1</i> and <i>rep2</i> mRNAs are novel RNA targets of the Mei2 RNA-binding protein during early meiosis in <i>Schizosaccharomyces pombe</i>. Open Biology, 2018, 8, . | 1.5 | 11 |
| 52 | The mouse genome contains two expressed intronless retroposed pseudogenes for the sentrin/sumo-1/PIC1 conjugating enzyme Ubc9. Molecular Immunology, 1998, 35, 1057-1067. | 1.0 | 10 |
| 53 | Extensive recoding of dengue virus type 2 specifically reduces replication in primate cells without gain-of-function in Aedes aegypti mosquitoes. PLoS ONE, 2018, 13, e0198303. | 1.1 | 10 |
| 54 | Scaling gene expression for cell size control and senescence in Saccharomyces cerevisiae. Current Genetics, 2021, 67, 41-47. | 0.8 | 8 |

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|---|---|---|---|
| 55 | Tgl4 Lipase: A Big Fat Target for Cell-Cycle Entry. Molecular Cell, 2009, 33, 143-144. | 4.5 | 7 |
| 56 | Prokaryotic coding regions have little if any specific depletion of Shine-Dalgarno motifs. PLoS ONE, 2018, 13, e0202768. | 1.1 | 7 |
| 57 | Assaying Glycogen and Trehalose in Yeast. Bio-protocol, 2017, 7, e2371. | 0.2 | 7 |
| 58 | Cyclins in Meiosis: Lost in Translation. Developmental Cell, 2008, 14, 644-645. | 3.1 | 6 |
| 59 | Phase Coupled Meta-analysis: sensitive detection of oscillations in cell cycle gene expression, as applied to fission yeast. BMC Genomics, 2009, 10, 440. | 1.2 | 3 |
| 60 | Blast ahead. Nature Genetics, 1999, 23, 377-378. | 9.4 | 2 |
| 61 | Meta-Analysis of Microarray Data. , 2007, , 329-352. | | 1 |
| 62 | Bound to splice. Nature, 2008, 455, 885-886. | 13.7 | 1 |
| 63 | Huxley's Revenge: Cell-Cycle Entry, Positive Feedback, and the G1 Cyclins. Molecular Cell, 2008, 31, 307-308. | 4.5 | 0 |