Anastasia Baryshnikova

List of Publications by Year
in descending order

43 papers	6,402 citations	201674 27 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	7730 citing authors

#	Article	IF	Citations
1	A genome-scale yeast library with inducible expression of individual genes. Molecular Systems Biology, 2021, 17, e10207.	7.2	37
2	*VID22* counteracts G-quadruplex-induced genome instability. Nucleic Acids Research, 2021, 49, 12785-12804.	14.5	5
3	Skp, Cullin, F-box (SCF)-Met30 and SCF-Cdc4-Mediated Proteolysis of CENP-A Prevents Mislocalization of CENP-A for Chromosomal Stability in Budding Yeast. PLoS Genetics, 2020, 16, e1008597.	3.5	28
4	Data libraries – the missing element for modeling biological systems. FEBS Journal, 2020, 287, 4594-4601.	4.7	3
5	Dbf4-Dependent Kinase (DDK)-Mediated Proteolysis of CENP-A Prevents Mislocalization of CENP-A in *Saccharomyces cerevisiae*. G3: Genes, Genomes, Genetics, 2020, 10, 2057-2068.	1.8	11
6	The promise and reality of therapeutic discovery from large cohorts. Journal of Clinical Investigation, 2020, 130, 575-581.	8.2	9
7	Identifying *Pseudomonas syringae* Type III Secreted Effector Function via a Yeast Genomic Screen. G3: Genes, Genomes, Genetics, 2019, 9, 535-547.	1.8	20
8	Spatial Analysis of Functional Enrichment (SAFE) in Large Biological Networks. Methods in Molecular Biology, 2018, 1819, 249-268.	0.9	18
9	A Genome-Wide Screen Reveals a Role for the HIR Histone Chaperone Complex in Preventing Mislocalization of Budding Yeast CENP-A. Genetics, 2018, 210, 203-218.	2.9	20
10	Functional annotation of chemical libraries across diverse biological processes. Nature Chemical Biology, 2017, 13, 982-993.	8.0	76
11	A global genetic interaction network maps a wiring diagram of cellular function. Science, 2016, 353, .	12.6	979
12	Exploring genetic suppression interactions on a global scale. Science, 2016, 354, .	12.6	157
13	Systematic Functional Annotation and Visualization of Biological Networks. Cell Systems, 2016, 2, 412-421.	6.2	142
14	Exploratory Analysis of Biological Networks through Visualization, Clustering, and Functional Annotation in Cytoscape. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot077644.	0.3	31
15	Chromosome-Specific and Global Effects of Aneuploidy in *Saccharomyces cerevisiae*. Genetics, 2016, 202, 1395-1409.	2.9	37
16	*trappc11* is required for protein glycosylation in zebrafish and humans. Molecular Biology of the Cell, 2016, 27, 1220-1234.	2.1	36
17	ER-associated retrograde SNAREs and the Dsl1 complex mediate an alternative, Sey1p-independent homotypic ER fusion pathway. Molecular Biology of the Cell, 2014, 25, 3401-3412.	2.1	16
18	Synthetic Genetic Array Analysis for Global Mapping of Genetic Networks in Yeast. Methods in Molecular Biology, 2014, 1205, 143-168.	0.9	30

#	Article	IF	Citations
19	Genetic Networks. , 2013, , 115-135.		1
20	Genetic Interaction Networks: Toward an Understanding of Heritability. Annual Review of Genomics and Human Genetics, 2013, 14, 111-133.	6.2	105
21	Global Linkage Map Connects Meiotic Centromere Function to Chromosome Size in Budding Yeast. G3: Genes, Genomes, Genetics, 2013, 3, 1741-1751.	1.8	12
22	A negative genetic interaction map in isogenic cancer cell lines reveals cancer cell vulnerabilities. Molecular Systems Biology, 2013, 9, 696.	7.2	90
23	SGAtools: one-stop analysis and visualization of array-based genetic interaction screens. Nucleic Acids Research, 2013, 41, W591-W596.	14.5	141
24	Neighboring-gene effect: a genetic uncertainty principle. Nature Methods, 2012, 9, 341-343.	19.0	15
25	Global Gene Deletion Analysis Exploring Yeast Filamentous Growth. Science, 2012, 337, 1353-1356.	12.6	186
26	Genome Rearrangements Caused by Depletion of Essential DNA Replication Proteins in *Saccharomyces cerevisiae*. Genetics, 2012, 192, 147-160.	2.9	25
27	Exploring the Yeast Acetylome Using Functional Genomics. Cell, 2012, 149, 936-948.	28.9	63
28	Functional wiring of the yeast kinome revealed by global analysis of genetic network motifs. Genome Research, 2012, 22, 791-801.	5.5	65
29	Systematic exploration of synergistic drug pairs. Molecular Systems Biology, 2011, 7, 544.	7.2	284
30	An integrated approach to characterize genetic interaction networks in yeast metabolism. Nature Genetics, 2011, 43, 656-662.	21.4	194
31	Systematic exploration of essential yeast gene function with temperature-sensitive mutants. Nature Biotechnology, 2011, 29, 361-367.	17.5	352
32	Dosage suppression genetic interaction networks enhance functional wiring diagrams of the cell. Nature Biotechnology, 2011, 29, 505-511.	17.5	90
33	Combining functional genomics and chemical biology to identify targets of bioactive compounds. Current Opinion in Chemical Biology, 2011, 15, 66-78.	6.1	72
34	Charting the genetic interaction map of a cell. Current Opinion in Biotechnology, 2011, 22, 66-74.	6.6	103
35	A Systems Biology Approach Reveals the Role of a Novel Methyltransferase in Response to Chemical Stress and Lipid Homeostasis. PLoS Genetics, 2011, 7, e1002332.	3.5	21
36	Protein Complexes are Central in the Yeast Genetic Landscape. PLoS Computational Biology, 2011, 7, e1001092.	3.2	57

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37	The Genetic Landscape of a Cell. Science, 2010, 327, 425-431.	12.6	1,937
38	Quantitative analysis of fitness and genetic interactions in yeast on a genome scale. Nature Methods, 2010, 7, 1017-1024.	19.0	319
39	DRYGIN: a database of quantitative genetic interaction networks in yeast. Nucleic Acids Research, 2010, 38, D502-D507.	14.5	75
40	Genetic interactions reveal the evolutionary trajectories of duplicate genes. Molecular Systems Biology, 2010, 6, 429.	7.2	97
41	Synthetic Genetic Array (SGA) Analysis in Saccharomyces cerevisiae and Schizosaccharomyces pombe. Methods in Enzymology, 2010, 470, 145-179.	1.0	175
42	You too can play with an edge. Nature Methods, 2009, 6, 797-798.	19.0	3
43	Systematic Mapping of Genetic Interaction Networks. Annual Review of Genetics, 2009, 43, 601-625.	7.6	250