

# Xionglei He

## List of Publications by Year in descending order

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45  
papers

2,731  
citations

430874

18  
h-index

243625

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Why Do Hubs Tend to Be Essential in Protein Networks?. <i>PLoS Genetics</i> , 2006, 2, e88.	3.5	634
2	Rapid Subfunctionalization Accompanied by Prolonged and Substantial Neofunctionalization in Duplicate Gene Evolution. <i>Genetics</i> , 2005, 169, 1157-1164.	2.9	598
3	Toward a Molecular Understanding of Pleiotropy. <i>Genetics</i> , 2006, 173, 1885-1891.	2.9	182
4	Prevalent positive epistasis in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> metabolic networks. <i>Nature Genetics</i> , 2010, 42, 272-276.	21.4	134
5	Significant Impact of Protein Dispensability on the Instantaneous Rate of Protein Evolution. <i>Molecular Biology and Evolution</i> , 2005, 22, 1147-1155.	8.9	114
6	The reverse evolution from multicellularity to unicellularity during carcinogenesis. <i>Nature Communications</i> , 2015, 6, 6367.	12.8	110
7	A hMTR4-miR125/124-TRAF6 Regulatory Axis and Its Function in NF kappa B Signaling and Chemoresistance. <i>Hepatology</i> , 2020, 71, 1660-1677.	7.3	103
8	Gene Complexity and Gene Duplicability. <i>Current Biology</i> , 2005, 15, 1016-1021.	3.9	90
9	Nucleosomes Suppress Spontaneous Mutations Base-Specifically in Eukaryotes. <i>Science</i> , 2012, 335, 1235-1238.	12.6	90
10	Higher Duplicability of Less Important Genes in Yeast Genomes. <i>Molecular Biology and Evolution</i> , 2006, 23, 144-151.	8.9	83
11	The Convergent Cancer Evolution toward a Single Cellular Destination. <i>Molecular Biology and Evolution</i> , 2016, 33, 4-12.	8.9	61
12	Measuring the evolutionary rate of protein-protein interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8725-8730.	7.1	50
13	He et al. reply. <i>Nature Genetics</i> , 2011, 43, 1171-1172.	21.4	45
14	The nonessentiality of essential genes in yeast provides therapeutic insights into a human disease. <i>Genome Research</i> , 2016, 26, 1355-1362.	5.5	38
15	On the low reproducibility of cancer studies. <i>National Science Review</i> , 2018, 5, 619-624.	9.5	38
16	Biosynthetic energy cost for amino acids decreases in cancer evolution. <i>Nature Communications</i> , 2018, 9, 4124.	12.8	27
17	On the founder effect in COVID-19 outbreaks: how many infected travelers may have started them all?. <i>National Science Review</i> , 2021, 8, nwa246.	9.5	27
18	Reduced intrinsic DNA curvature leads to increased mutation rate. <i>Genome Biology</i> , 2018, 19, 132.	8.8	23

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19	Reassessing the “Duon” Hypothesis of Protein Evolution. <i>Molecular Biology and Evolution</i> , 2015, 32, 1056-1062.	8.9	22
20	The twin-beginnings of COVID-19 in Asia and Europe—”one prevails quickly. <i>National Science Review</i> , 2022, 9, nwab223.	9.5	22
21	Transcriptional Reprogramming and Backup Between Duplicate Genes: Is It a Genomewide Phenomenon?. <i>Genetics</i> , 2006, 172, 1363-1367.	2.9	20
22	Mapping single-cell-resolution cell phylogeny reveals cell population dynamics during organ development. <i>Nature Methods</i> , 2021, 18, 1506-1514.	19.0	20
23	A theoretical exploration of the origin and early evolution of a pandemic. <i>Science Bulletin</i> , 2021, 66, 1022-1029.	9.0	18
24	The Genotype–Phenotype Relationships in the Light of Natural Selection. <i>Molecular Biology and Evolution</i> , 2018, 35, 525-542.	8.9	16
25	Peroxiredoxin alleviates the fitness costs of imidacloprid resistance in an insect pest of rice. <i>PLoS Biology</i> , 2021, 19, e3001190.	5.6	15
26	Mutation signatures inform the natural host of SARS-CoV-2. <i>National Science Review</i> , 2022, 9, nwab220.	9.5	15
27	The Runaway Evolution of SARS-CoV-2 Leading to the Highly Evolved Delta Strain. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	14
28	Genetic Incompatibility Dampens Hybrid Fertility More Than Hybrid Viability: Yeast as a Case Study. <i>PLoS ONE</i> , 2011, 6, e18341.	2.5	13
29	Toward a prospective molecular evolution. <i>Science</i> , 2016, 352, 769-770.	12.6	11
30	Assessing the Influence of Dietary History on Gut Microbiota. <i>Current Microbiology</i> , 2019, 76, 237-247.	2.2	10
31	Human A-to-I RNA editing SNP loci are enriched in GWAS signals for autoimmune diseases and under balancing selection. <i>Genome Biology</i> , 2020, 21, 288.	8.8	10
32	On the Growth of Scientific Knowledge: Yeast Biology as a Case Study. <i>PLoS Computational Biology</i> , 2009, 5, e1000320.	3.2	8
33	Defining endogenous barcoding sites for CRISPR/Cas9-based cell lineage tracing in zebrafish. <i>Journal of Genetics and Genomics</i> , 2020, 47, 85-91.	3.9	8
34	Drivers of Mating Type Composition in <i>Tetrahymena thermophila</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 2328-2343.	2.5	8
35	The <i>d<sub>J</sub>/d<sub>S</sub></i> Ratio Test Reveals Hundreds of Novel Putative Cancer Drivers. <i>Molecular Biology and Evolution</i> , 2015, 32, 2181-2185.	8.9	7
36	The Biology Complicated by Genetic Analysis. <i>Molecular Biology and Evolution</i> , 2016, 33, 2177-2181.	8.9	7

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37	The evolution of sex chromosome dosage compensation in animals. <i>Journal of Genetics and Genomics</i> , 2020, 47, 681-693.	3.9	7
38	An instantaneous coalescent method insensitive to population structure. <i>Journal of Genetics and Genomics</i> , 2021, 48, 219-224.	3.9	5
39	Lineage analysis by microsatellite loci deep sequencing in mice. <i>Molecular Reproduction and Development</i> , 2016, 83, 387-391.	2.0	4
40	The Origin of Additive Genetic Variance Driven by Positive Selection. <i>Molecular Biology and Evolution</i> , 2020, 37, 2300-2308.	8.9	3
41	Mutation Bias, rather than Binding Preference, Underlies the Nucleosome-Associated G+C% Variation in Eukaryotes. <i>Genome Biology and Evolution</i> , 2015, 7, 1033-1038.	2.5	2
42	Decoupling gene functions from knockout effects by evolutionary analyses. <i>National Science Review</i> , 2020, 7, 1169-1180.	9.5	2
43	Rapid Intraspecies Evolution of Fitness Effects of Yeast Genes. <i>Genome Biology and Evolution</i> , 2022, 14, .	2.5	2
44	A Simple Strategy for Reducing False Negatives in Calling Variants from Single-Cell Sequencing Data. <i>PLoS ONE</i> , 2015, 10, e0123789.	2.5	1
45	The expression tractability of biological traits shaped by natural selection. <i>Journal of Genetics and Genomics</i> , 2019, 46, 397-404.	3.9	0