Manyuan Long

List of Publications by Year
in descending order

119 papers	11,352 citations	57681 46 h-index	36203 101 g-index
184 all docs	184 docs citations	184 times ranked	11797 citing authors

#	Article	IF	Citations
1	Rapid Gene Evolution in an Ancient Post-transcriptional and Translational Regulatory System Compensates for Meiotic X Chromosomal Inactivation. Molecular Biology and Evolution, 2022, 39, .	3.5	3
2	Rapid Cisâ€"Trans Coevolution Driven by a Novel Gene Retroposed from a Eukaryotic Conserved CCR4â€"NOT Component in Drosophila. Genes, 2022, 13, 57.	1.0	1
3	Species-specific partial gene duplication in <i>Arabidopsis thaliana</i> evolved novel phenotypic effects on morphological traits under strong positive selection. Plant Cell, 2022, 34, 802-817.	3.1	15
4	Retrogene Duplication and Expression Patterns Shaped by the Evolution of Sex Chromosomes in Malaria Mosquitoes. Genes, 2022, 13, 968.	1.0	7
5	Gene fusion as an important mechanism to generate new genes in the genus Oryza. Genome Biology, 2022, 23, .	3.8	7
6	A zebrafish-specific chimeric gene evolved essential developmental functions: discussion of conceptual significance. Science China Life Sciences, 2021, 64, 840-842.	2.3	1
7	Genomic analyses of new genes and their phenotypic effects reveal rapid evolution of essential functions in Drosophila development. PLoS Genetics, 2021, 17, e1009654.	1.5	27
8	New Genes Interacted With Recent Whole-Genome Duplicates in the Fast Stem Growth of Bamboos. Molecular Biology and Evolution, 2021, 38, 5752-5768.	3.5	28
9	Whole genome-wide chromosome fusion and new gene birth in the Monopterus albus genome. Cell and Bioscience, 2020, 10, 67.	2.1	16
10	Evolutionary Dynamics of Abundant 7-bp Satellites in the Genome of<i>Drosophila virilis</i>. Molecular Biology and Evolution, 2020, 37, 1362-1375.	3.5	23
11	Dissection of patulin biosynthesis, spatial control and regulation mechanism in <i>Penicillium expansum</i>. Environmental Microbiology, 2019, 21, 1124-1139.	1.8	91
12	Rapid Evolution of Gained Essential Developmental Functions of a Young Gene via Interactions with Other Essential Genes. Molecular Biology and Evolution, 2019, 36, 2212-2226.	3.5	28
13	Origination and evolution of orphan genes and de novo genes in the genome of Caenorhabditis elegans. Science China Life Sciences, 2019, 62, 579-593.	2.3	21
14	Rapid evolution of protein diversity by de novo origination in Oryza. Nature Ecology and Evolution, 2019, 3, 679-690.	3.4	121
15	GenTree, an integrated resource for analyzing the evolution and function of primate-specific coding genes. Genome Research, 2019, 29, 682-696.	2.4	67
16	Topological evolution of coexpression networks by new gene integration maintains the hierarchical and modular structures in human ancestors. Science China Life Sciences, 2019, 62, 594-608.	2.3	8
17	Evolution of genes and genomes: an emerging paradigm in life science. Science China Life Sciences, 2019, 62, 435-436.	2.3	1
18	Gene duplicates resolving sexual conflict rapidly evolved essential gametogenesis functions. Nature Ecology and Evolution, 2018, 2, 705-712.	3.4	68

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19	Genomes of 13 domesticated and wild rice relatives highlight genetic conservation, turnover and innovation across the genus Oryza. Nature Genetics, 2018, 50, 285-296.	9.4	413
20	Genetic Architecture of Natural Variation Underlying Adult Foraging Behavior That Is Essential for Survival of Drosophila melanogaster. Genome Biology and Evolution, 2017, 9, 1357-1369.	1.1	11
21	Meiotic Sex Chromosome Inactivation: Compensation by Gene Traffic. Current Biology, 2017, 27, R659-R661.	1.8	9
22	Expressed Structurally Stable Inverted Duplicates in Mammalian Genomes as Functional Noncoding Elements. Genome Biology and Evolution, 2017, 9, 981-992.	1.1	2
23	LTR-mediated retroposition as a mechanism of RNA-based duplication in metazoans. Genome Research, 2016, 26, 1663-1675.	2.4	42
24	New genes drive the evolution of gene interaction networks in the human and mouse genomes. Genome Biology, 2015, 16, 202.	3.8	88
25	Evolution of Gene Structural Complexity: An Alternative-Splicing-Based Model Accounts for Intron-Containing Retrogenes Â. Plant Physiology, 2014, 165, 412-423.	2.3	19
26	A long-term demasculinization of X-linked intergenic noncoding RNAs in Drosophila melanogaster. Genome Research, 2014, 24, 629-638.	2.4	22
27	New genes contribute to genetic and phenotypic novelties in human evolution. Current Opinion in Genetics and Development, 2014, 29, 90-96.	1.5	56
28	The genome sequence of African rice (Oryza glaberrima) and evidence for independent domestication. Nature Genetics, 2014, 46, 982-988.	9.4	342
29	New genes important for development. EMBO Reports, 2014, 15, 460-461.	2.0	7
30	New genes as drivers of phenotypic evolution. Nature Reviews Genetics, 2013, 14, 645-660.	7.7	313
31	New Gene Evolution: Little Did We Know. Annual Review of Genetics, 2013, 47, 307-333.	3.2	249
32	High Occurrence of Functional New Chimeric Genes in Survey of Rice Chromosome 3 Short Arm Genome Sequences. Genome Biology and Evolution, 2013, 5, 1038-1048.	1.1	11
33	V.6. Evolution of New Genes. , 2013, , 406-412.		1
34	Reshaping of global gene expression networks and sex-biased gene expression by integration of a young gene. EMBO Journal, 2012, 31, 2798-2809.	3.5	44
35	Adaptive Evolution and the Birth of CTCF Binding Sites in the Drosophila Genome. PLoS Biology, 2012, 10, e1001420.	2.6	60
36	Why rodent pseudogenes refuse to retire. Genome Biology, 2012, 13, 178.	13.9	2

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37	Frequent Recent Origination of Brain Genes Shaped the Evolution of Foraging Behavior in Drosophila. Cell Reports, 2012, 1, 118-132.	2.9	30
38	New genes expressed in human brains: Implications for annotating evolving genomes. BioEssays, 2012, 34, 982-991.	1.2	54
39	Segmental dataset and whole body expression data do not support the hypothesis that non-random movement is an intrinsic property of Drosophila retrogenes. BMC Evolutionary Biology, 2012, 12, 169.	3.2	1
40	Re-analysis of the larval testis data on meiotic sex chromosome inactivation revealed evidence for tissue-specific gene expression related to the drosophila X chromosome. BMC Biology, 2012, 10, 49; author reply 50.	1.7	36
41	The Origin and Evolution of New Genes. Methods in Molecular Biology, 2012, 856, 161-186.	0.4	23
42	Retrogenes Moved Out of the Z Chromosome in the Silkworm. Journal of Molecular Evolution, 2012, 74, 113-126.	0.8	41
43	Evolutionary interactions between sex chromosomes and autosomes. , 2012, , 101-114.		9
44	Drosophila Duplication Hotspots Are Associated with Late-Replicating Regions of the Genome. PLoS Genetics, 2011, 7, e1002340.	1.5	31
45	Roles of young serine-endopeptidase genes in survival and reproduction revealed rapid evolution of phenotypic effects at adult stages. Fly, 2011, 5, 345-351.	0.9	5
46	Dynamic programming procedure for searching optimal models to estimate substitution rates based on the maximum-likelihood method. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7860-7865.	3.3	15
47	Accelerated Recruitment of New Brain Development Genes into the Human Genome. PLoS Biology, 2011, 9, e1001179.	2.6	139
48	A cautionary note for retrocopy identification: DNA-based duplication of intron-containing genes significantly contributes to the origination of single exon genes. Bioinformatics, 2011, 27, 1749-1753.	1.8	18
49	Deficiency of X-Linked Inverted Duplicates with Male-Biased Expression and the Underlying Evolutionary Mechanisms in the Drosophila Genome. Molecular Biology and Evolution, 2011, 28, 2823-2832.	3.5	2
50	Highly Tissue Specific Expression of Sphinx Supports Its Male Courtship Related Role in Drosophila melanogaster. PLoS ONE, 2011, 6, e18853.	1.1	22
51	Evolutionary Patterns of RNA-Based Duplication in Non-Mammalian Chordates. PLoS ONE, 2011, 6, e21466.	1.1	13
52	Evolution of Enzymatic Activities of Testis-Specific Short-Chain Dehydrogenase/Reductase in Drosophila. Journal of Molecular Evolution, 2010, 71, 241-249.	0.8	18
53	Mutational bias shaping fly copy number variation: implications for genome evolution. Trends in Genetics, 2010, 26, 243-247.	2.9	20
54	The rapid generation of chimerical genes expanding protein diversity in zebrafish. BMC Genomics, 2010, 11, 657.	1.2	36

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55	Direct Evidence for Postmeiotic Transcription During <i>Drosophila melanogaster</i> Spermatogenesis. Genetics, 2010, 186, 431-433.	1.2	63
56	Age-dependent chromosomal distribution of male-biased genes in <i>Drosophila</i>. Genome Research, 2010, 20, 1526-1533.	2.4	134
57	Recombination Yet Inefficient Selection along the Drosophila melanogaster Subgroup's Fourth Chromosome. Molecular Biology and Evolution, 2010, 27, 848-861.	3.5	54
58	Chromosomal Redistribution of Male-Biased Genes in Mammalian Evolution with Two Bursts of Gene Gain on the X Chromosome. PLoS Biology, 2010, 8, e1000494.	2.6	182
59	New Genes in <i>Drosophila</i> Quickly Become Essential. Science, 2010, 330, 1682-1685.	6.0	280
60	A Rice Gene of De Novo Origin Negatively Regulates Pathogen-Induced Defense Response. PLoS ONE, 2009, 4, e4603.	1.1	114
61	Detection of intergenic non-coding RNAs expressed in the main developmental stages in Drosophila melanogaster. Nucleic Acids Research, 2009, 37, 4308-4314.	6.5	21
62	Extensive Structural Renovation of Retrogenes in the Evolution of the Populus Genome. Plant Physiology, 2009, 151, 1943-1951.	2.3	66
63	General gene movement off the X chromosome in the <i>Drosophila</i> genus. Genome Research, 2009, 19, 897-903.	2.4	122
64	Positive selection for the male functionality of a co-retroposed gene in the hominoids. BMC Evolutionary Biology, 2009, 9, 252.	3.2	14
65	RNA-based gene duplication: mechanistic and evolutionary insights. Nature Reviews Genetics, 2009, 10, 19-31.	7.7	374
66	Stage-Specific Expression Profiling of Drosophila Spermatogenesis Suggests that Meiotic Sex Chromosome Inactivation Drives Genomic Relocation of Testis-Expressed Genes. PLoS Genetics, 2009, 5, e1000731.	1.5	191
67	Natural Selection Shapes Genome-Wide Patterns of Copy-Number Polymorphism in <i>Drosophila melanogaster</i>. Science, 2008, 320, 1629-1631.	6.0	241
68	Recurrent Tandem Gene Duplication Gave Rise to Functionally Divergent Genes in Drosophila. Molecular Biology and Evolution, 2008, 25, 1451-1458.	3.5	37
69	The evolution of courtship behaviors through the origination of a new gene in <i>Drosophila</i>. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7478-7483.	3.3	76
70	Repetitive Element-Mediated Recombination as a Mechanism for New Gene Origination in Drosophila. PLoS Genetics, 2008, 4, e3.	1.5	80
71	The Subtelomere of Oryza sativa Chromosome 3 Short Arm as a Hot Bed of New Gene Origination in Rice. Molecular Plant, 2008, 1, 839-850.	3.9	36
72	Adaptive Evolution of the Insulin Two-Gene System in Mouse. Genetics, 2008, 178, 1683-1691.	1.2	45

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73	Origins of New Male Germ-line Functions from X-Derived Autosomal Retrogenes in the Mouse. Molecular Biology and Evolution, 2007, 24, 2242-2253.	3.5	28
74	An Intronic Signal for Alternative Splicing in the Human Genome. PLoS ONE, 2007, 2, e1246.	1.1	17
75	Side effects of Tamiflu: clues from an Asian single nucleotide polymorphism. Cell Research, 2007, 17, 309-310.	5.7	12
76	Evolution of genes and genomes on the Drosophila phylogeny. Nature, 2007, 450, 203-218.	13.7	1,886
77	A Microarray Based Genomic Hybridization Method for Identification of New Genes in Plants: Case Analyses of Arabidopsis and Oryza. Journal of Integrative Plant Biology, 2007, 49, 915-926.	4.1	10
78	A role for convergent evolution in the secretory life of cells. Trends in Cell Biology, 2007, 17, 157-164.	3.6	22
79	A New Retroposed Gene in Drosophila Heterochromatin Detected by Microarray-Based Comparative Genomic Hybridization. Journal of Molecular Evolution, 2007, 64, 272-283.	0.8	7
80	Male non-coding RNA genes identified by comparative genomic analysis of the Drosophila genomes. Science Bulletin, 2007, 52, 721-724.	1.7	1
81	Significant divergence of sex-related non-coding RNA expression patterns among closely related species in Drosophila. Science Bulletin, 2007, 52, 748-754.	1.7	3
82	High Rate of Chimeric Gene Origination by Retroposition in Plant Genomes. Plant Cell, 2006, 18, 1791-1802.	3.1	207
83	Retrogene movement within- and between-chromosomes in the evolution of Drosophila genomes. Gene, 2006, 385, 96-102.	1.0	58
84	Origination of an X-Linked Testes Chimeric Gene by Illegitimate Recombination in Drosophila. PLoS Genetics, 2006, 2, e77.	1.5	51
85	Extensive Gene Traffic on the Mammalian X Chromosome. Science, 2004, 303, 537-540.	6.0	387
86	Excess of Amino Acid Substitutions Relative to Polymorphism Between X-Linked Duplications in Drosophila melanogaster. Molecular Biology and Evolution, 2004, 22, 273-284.	3.5	46
87	Nucleotide Variation and Recombination Along the Fourth Chromosome in Drosophila simulans. Genetics, 2004, 166, 1783-1794.	1.2	25
88	Sex Chromosomes and Male Functions: Where Do New Genes Go?. Cell Cycle, 2004, 3, 871-873.	1.3	25
89	Evolving protein functional diversity in new genes of Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16246-16250.	3.3	105
90	Duplication-degeneration as a mechanism of gene fission and the origin of new genes in Drosophila species. Nature Genetics, 2004, 36, 523-527.	9.4	88

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91	Nucleotide Variation and Recombination Along the Fourth Chromosome in <i>Drosophila simulans</i>. Genetics, 2004, 166, 1783-1794.	1.2	13
92	Origin of New Genes: Evidence from Experimental and Computational Analyses. Genetica, 2003, 118, 171-182.	0.5	54
93	The origin of new genes: glimpses from the young and old. Nature Reviews Genetics, 2003, 4, 865-875.	7.7	775
94	<i>Dntf-2r</i>, a Young Drosophila Retroposed Gene With Specific Male Expression Under Positive Darwinian Selection. Genetics, 2003, 164, 977-988.	1.2	94
95	Origin of new genes: evidence from experimental and computational analyses. Genetica, 2003, 118, 171-82.	0.5	27
96	Origin of sphinx, a young chimeric RNA gene in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4448-4453.	3.3	127
97	Nucleotide Variation Along the Drosophila melanogaster Fourth Chromosome. Science, 2002, 295, 134-137.	6.0	81
98	Rapid Divergence of Gene Duplicates on the Drosophila melanogaster X Chromosome. Molecular Biology and Evolution, 2002, 19, 918-925.	3.5	83
99	Intron presence-absence polymorphism in Drosophila driven by positive Darwinian selection. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8121-8126.	3.3	91
100	Retroposed New Genes Out of the X in Drosophila. Genome Research, 2002, 12, 1854-1859.	2.4	399
101	Evolution of the Phosphoglycerate mutase Processed Gene in Human and Chimpanzee Revealing the Origin of a New Primate Gene. Molecular Biology and Evolution, 2002, 19, 654-663.	3.5	70
102	Expansion of genome coding regions by acquisition of new genes. Genetica, 2002, 115, 65-80.	0.5	46
103	Retroposed New Genes Out of the X in<i>Drosophila</i>. Genome Research, 2002, 12, 1854-1859.	2.4	99
104	Evolution of novel genes. Current Opinion in Genetics and Development, 2001, 11, 673-680.	1.5	153
105	Aspartyl proteinase genes from apicomplexan parasites: evidence for evolution of the gene structure. Trends in Parasitology, 2001, 17, 491-498.	1.5	20
106	Testing the â€œProto-splice Sitesâ€•Model of Intron Origin: Evidence from Analysis of Intron Phase Correlations. Molecular Biology and Evolution, 2000, 17, 1789-1796.	3.5	47
107	The Origin of the Jingwei Gene and the Complex Modular Structure of Its Parental Gene, Yellow Emperor, in Drosophila melanogaster. Molecular Biology and Evolution, 2000, 17, 1294-1301.	3.5	93
108	Generation of a Widespread Drosophila Inversion by a Transposable Element. Science, 1999, 285, 415-418.	6.0	200

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109	Intronâ€"exon structures of eukaryotic model organisms. Nucleic Acids Research, 1999, 27, 3219-3228.	6.5	356
110	Origin of new genes and source for N-terminal domain of the chimerical gene, jingwei, in Drosophila. Gene, 1999, 238, 135-141.	1.0	66
111	Intron-exon structures. Advances in Genome Biology, 1998, , 143-178.	0.3	10
112	Delta-Interacting Protein A and the Origin of Hepatitis Delta Antigen. Science, 1997, 276, 824-825.	6.0	19
113	The Yeast Splice Site Revisited: New Exon Consensus from Genomic Analysis. Cell, 1997, 91, 739-740.	13.5	19
114	The correlation between introns and the three-dimensional structure of proteins. Gene, 1997, 205, 141-144.	1.0	16
115	Nucleotide Variation and Conservation at the <i>dpp</i> Locus, a Gene Controlling Early Development in Drosophila. Genetics, 1997, 145, 311-323.	1.2	36
116	Introns and gene evolution. Genes To Cells, 1996, 1, 493-505.	0.5	54
117	Natural selection and the origin of jingwei, a chimeric processed functional gene in Drosophila. Science, 1993, 260, 91-95.	6.0	395
118	Codon usage divergence of homologous vertebrate genes and codon usage clock. Journal of Molecular Evolution, 1991, 32, 6-15.	0.8	30
119	Isolation ofCaenorhabditis elegans mutants lacking alcohol dehydrogenase activity. Biochemical Genetics, 1991, 29, 313-323.	0.8	20