

# Manyuan Long

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5628457/publications.pdf>

Version: 2024-02-01

119  
papers

11,352  
citations

50276

46  
h-index

31849

101  
g-index

184  
all docs

184  
docs citations

184  
times ranked

10485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of genes and genomes on the <i>Drosophila</i> phylogeny. <i>Nature</i> , 2007, 450, 203-218.	27.8	1,886
2	The origin of new genes: glimpses from the young and old. <i>Nature Reviews Genetics</i> , 2003, 4, 865-875.	16.3	775
3	Genomes of 13 domesticated and wild rice relatives highlight genetic conservation, turnover and innovation across the genus <i>Oryza</i> . <i>Nature Genetics</i> , 2018, 50, 285-296.	21.4	413
4	Retroposed New Genes Out of the X in <i>Drosophila</i> . <i>Genome Research</i> , 2002, 12, 1854-1859.	5.5	399
5	Natural Selection and the Origin of <i>jingwei</i> , a Chimeric Processed Functional Gene in <i>Drosophila</i> . <i>Science</i> , 1993, 260, 91-95.	12.6	395
6	Extensive Gene Traffic on the Mammalian X Chromosome. <i>Science</i> , 2004, 303, 537-540.	12.6	387
7	RNA-based gene duplication: mechanistic and evolutionary insights. <i>Nature Reviews Genetics</i> , 2009, 10, 19-31.	16.3	374
8	Intron-exon structures of eukaryotic model organisms. <i>Nucleic Acids Research</i> , 1999, 27, 3219-3228.	14.5	356
9	The genome sequence of African rice ( <i>Oryza glaberrima</i> ) and evidence for independent domestication. <i>Nature Genetics</i> , 2014, 46, 982-988.	21.4	342
10	New genes as drivers of phenotypic evolution. <i>Nature Reviews Genetics</i> , 2013, 14, 645-660.	16.3	313
11	New Genes in <i>Drosophila</i> Quickly Become Essential. <i>Science</i> , 2010, 330, 1682-1685.	12.6	280
12	New Gene Evolution: Little Did We Know. <i>Annual Review of Genetics</i> , 2013, 47, 307-333.	7.6	249
13	Natural Selection Shapes Genome-Wide Patterns of Copy-Number Polymorphism in <i>Drosophila melanogaster</i> . <i>Science</i> , 2008, 320, 1629-1631.	12.6	241
14	High Rate of Chimeric Gene Origination by Retroposition in Plant Genomes. <i>Plant Cell</i> , 2006, 18, 1791-1802.	6.6	207
15	Generation of a Widespread <i>Drosophila</i> Inversion by a Transposable Element. <i>Science</i> , 1999, 285, 415-418.	12.6	200
16	Stage-Specific Expression Profiling of <i>Drosophila</i> Spermatogenesis Suggests that Meiotic Sex Chromosome Inactivation Drives Genomic Relocation of Testis-Expressed Genes. <i>PLoS Genetics</i> , 2009, 5, e1000731.	3.5	191
17	Chromosomal Redistribution of Male-Biased Genes in Mammalian Evolution with Two Bursts of Gene Gain on the X Chromosome. <i>PLoS Biology</i> , 2010, 8, e1000494.	5.6	182
18	Evolution of novel genes. <i>Current Opinion in Genetics and Development</i> , 2001, 11, 673-680.	3.3	153

#	ARTICLE	IF	CITATIONS
19	Accelerated Recruitment of New Brain Development Genes into the Human Genome. <i>PLoS Biology</i> , 2011, 9, e1001179.	5.6	139
20	Age-dependent chromosomal distribution of male-biased genes in <i>Drosophila</i> . <i>Genome Research</i> , 2010, 20, 1526-1533.	5.5	134
21	Origin of <i>sphinx</i> , a young chimeric RNA gene in <i>Drosophila melanogaster</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4448-4453.	7.1	127
22	General gene movement off the X chromosome in the <i>Drosophila</i> genus. <i>Genome Research</i> , 2009, 19, 897-903.	5.5	122
23	Rapid evolution of protein diversity by de novo origination in <i>Oryza</i> . <i>Nature Ecology and Evolution</i> , 2019, 3, 679-690.	7.8	121
24	A Rice Gene of De Novo Origin Negatively Regulates Pathogen-Induced Defense Response. <i>PLoS ONE</i> , 2009, 4, e4603.	2.5	114
25	Evolving protein functional diversity in new genes of <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16246-16250.	7.1	105
26	Retroposed New Genes Out of the X in <i>Drosophila</i> . <i>Genome Research</i> , 2002, 12, 1854-1859.	5.5	99
27	<i>Dntf-2r</i> , a Young <i>Drosophila</i> Retroposed Gene With Specific Male Expression Under Positive Darwinian Selection. <i>Genetics</i> , 2003, 164, 977-988.	2.9	94
28	The Origin of the Jingwei Gene and the Complex Modular Structure of Its Parental Gene, Yellow Emperor, in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2000, 17, 1294-1301.	8.9	93
29	Intron presence-absence polymorphism in <i>Drosophila</i> driven by positive Darwinian selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8121-8126.	7.1	91
30	Dissection of patulin biosynthesis, spatial control and regulation mechanism in <i>Penicillium expansum</i> . <i>Environmental Microbiology</i> , 2019, 21, 1124-1139.	3.8	91
31	Duplication-degeneration as a mechanism of gene fission and the origin of new genes in <i>Drosophila</i> species. <i>Nature Genetics</i> , 2004, 36, 523-527.	21.4	88
32	New genes drive the evolution of gene interaction networks in the human and mouse genomes. <i>Genome Biology</i> , 2015, 16, 202.	8.8	88
33	Rapid Divergence of Gene Duplicates on the <i>Drosophila melanogaster</i> X Chromosome. <i>Molecular Biology and Evolution</i> , 2002, 19, 918-925.	8.9	83
34	Nucleotide Variation Along the <i>Drosophila melanogaster</i> Fourth Chromosome. <i>Science</i> , 2002, 295, 134-137.	12.6	81
35	Repetitive Element-Mediated Recombination as a Mechanism for New Gene Origination in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2008, 4, e3.	3.5	80
36	The evolution of courtship behaviors through the origination of a new gene in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7478-7483.	7.1	76

#	ARTICLE	IF	CITATIONS
37	Evolution of the Phosphoglycerate mutase Processed Gene in Human and Chimpanzee Revealing the Origin of a New Primate Gene. <i>Molecular Biology and Evolution</i> , 2002, 19, 654-663.	8.9	70
38	Gene duplicates resolving sexual conflict rapidly evolved essential gametogenesis functions. <i>Nature Ecology and Evolution</i> , 2018, 2, 705-712.	7.8	68
39	GenTree, an integrated resource for analyzing the evolution and function of primate-specific coding genes. <i>Genome Research</i> , 2019, 29, 682-696.	5.5	67
40	Origin of new genes and source for N-terminal domain of the chimerical gene, jingwei, in <i>Drosophila</i> . <i>Gene</i> , 1999, 238, 135-141.	2.2	66
41	Extensive Structural Renovation of Retrogenes in the Evolution of the <i>Populus</i> Genome. <i>Plant Physiology</i> , 2009, 151, 1943-1951.	4.8	66
42	Direct Evidence for Postmeiotic Transcription During <i>Drosophila melanogaster</i> Spermatogenesis. <i>Genetics</i> , 2010, 186, 431-433.	2.9	63
43	Adaptive Evolution and the Birth of CTCF Binding Sites in the <i>Drosophila</i> Genome. <i>PLoS Biology</i> , 2012, 10, e1001420.	5.6	60
44	Retrogene movement within- and between-chromosomes in the evolution of <i>Drosophila</i> genomes. <i>Gene</i> , 2006, 385, 96-102.	2.2	58
45	New genes contribute to genetic and phenotypic novelties in human evolution. <i>Current Opinion in Genetics and Development</i> , 2014, 29, 90-96.	3.3	56
46	Introns and gene evolution. <i>Genes To Cells</i> , 1996, 1, 493-505.	1.2	54
47	Origin of New Genes: Evidence from Experimental and Computational Analyses. <i>Genetica</i> , 2003, 118, 171-182.	1.1	54
48	Recombination Yet Inefficient Selection along the <i>Drosophila melanogaster</i> Subgroup's Fourth Chromosome. <i>Molecular Biology and Evolution</i> , 2010, 27, 848-861.	8.9	54
49	New genes expressed in human brains: Implications for annotating evolving genomes. <i>BioEssays</i> , 2012, 34, 982-991.	2.5	54
50	Origination of an X-Linked Testes Chimeric Gene by Illegitimate Recombination in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2006, 2, e77.	3.5	51
51	Testing the "Proto-splice Sites" Model of Intron Origin: Evidence from Analysis of Intron Phase Correlations. <i>Molecular Biology and Evolution</i> , 2000, 17, 1789-1796.	8.9	47
52	Expansion of genome coding regions by acquisition of new genes. <i>Genetica</i> , 2002, 115, 65-80.	1.1	46
53	Excess of Amino Acid Substitutions Relative to Polymorphism Between X-Linked Duplications in <i>Drosophila melanogaster</i> . <i>Molecular Biology and Evolution</i> , 2004, 22, 273-284.	8.9	46
54	Adaptive Evolution of the Insulin Two-Gene System in Mouse. <i>Genetics</i> , 2008, 178, 1683-1691.	2.9	45

#	ARTICLE	IF	CITATIONS
55	Reshaping of global gene expression networks and sex-biased gene expression by integration of a young gene. <i>EMBO Journal</i> , 2012, 31, 2798-2809.	7.8	44
56	LTR-mediated retroposition as a mechanism of RNA-based duplication in metazoans. <i>Genome Research</i> , 2016, 26, 1663-1675.	5.5	42
57	Retrogenes Moved Out of the Z Chromosome in the Silkworm. <i>Journal of Molecular Evolution</i> , 2012, 74, 113-126.	1.8	41
58	Recurrent Tandem Gene Duplication Gave Rise to Functionally Divergent Genes in <i>Drosophila</i> . <i>Molecular Biology and Evolution</i> , 2008, 25, 1451-1458.	8.9	37
59	The Subtelomere of <i>Oryza sativa</i> Chromosome 3 Short Arm as a Hot Bed of New Gene Origination in Rice. <i>Molecular Plant</i> , 2008, 1, 839-850.	8.3	36
60	The rapid generation of chimerical genes expanding protein diversity in zebrafish. <i>BMC Genomics</i> , 2010, 11, 657.	2.8	36
61	Re-analysis of the larval testis data on meiotic sex chromosome inactivation revealed evidence for tissue-specific gene expression related to the <i>drosophila</i> X chromosome. <i>BMC Biology</i> , 2012, 10, 49; author reply 50.	3.8	36
62	Nucleotide Variation and Conservation at the <i>dpp</i> Locus, a Gene Controlling Early Development in <i>Drosophila</i> . <i>Genetics</i> , 1997, 145, 311-323.	2.9	36
63	<i>Drosophila</i> Duplication Hotspots Are Associated with Late-Replicating Regions of the Genome. <i>PLoS Genetics</i> , 2011, 7, e1002340.	3.5	31
64	Codon usage divergence of homologous vertebrate genes and codon usage clock. <i>Journal of Molecular Evolution</i> , 1991, 32, 6-15.	1.8	30
65	Frequent Recent Origination of Brain Genes Shaped the Evolution of Foraging Behavior in <i>Drosophila</i> . <i>Cell Reports</i> , 2012, 1, 118-132.	6.4	30
66	Origins of New Male Germ-line Functions from X-Derived Autosomal Retrogenes in the Mouse. <i>Molecular Biology and Evolution</i> , 2007, 24, 2242-2253.	8.9	28
67	Rapid Evolution of Gained Essential Developmental Functions of a Young Gene via Interactions with Other Essential Genes. <i>Molecular Biology and Evolution</i> , 2019, 36, 2212-2226.	8.9	28
68	New Genes Interacted With Recent Whole-Genome Duplicates in the Fast Stem Growth of Bamboos. <i>Molecular Biology and Evolution</i> , 2021, 38, 5752-5768.	8.9	28
69	Genomic analyses of new genes and their phenotypic effects reveal rapid evolution of essential functions in <i>Drosophila</i> development. <i>PLoS Genetics</i> , 2021, 17, e1009654.	3.5	27
70	Origin of new genes: evidence from experimental and computational analyses. <i>Genetica</i> , 2003, 118, 171-82.	1.1	27
71	Nucleotide Variation and Recombination Along the Fourth Chromosome in <i>Drosophila simulans</i> . <i>Genetics</i> , 2004, 166, 1783-1794.	2.9	25
72	Sex Chromosomes and Male Functions: Where Do New Genes Go?. <i>Cell Cycle</i> , 2004, 3, 871-873.	2.6	25

#	ARTICLE	IF	CITATIONS
73	The Origin and Evolution of New Genes. <i>Methods in Molecular Biology</i> , 2012, 856, 161-186.	0.9	23
74	Evolutionary Dynamics of Abundant 7-bp Satellites in the Genome of <i>Drosophila virilis</i> . <i>Molecular Biology and Evolution</i> , 2020, 37, 1362-1375.	8.9	23
75	A role for convergent evolution in the secretory life of cells. <i>Trends in Cell Biology</i> , 2007, 17, 157-164.	7.9	22
76	A long-term demasculinization of X-linked intergenic noncoding RNAs in <i>Drosophila melanogaster</i> . <i>Genome Research</i> , 2014, 24, 629-638.	5.5	22
77	Highly Tissue Specific Expression of Sphinx Supports Its Male Courtship Related Role in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2011, 6, e18853.	2.5	22
78	Detection of intergenic non-coding RNAs expressed in the main developmental stages in <i>Drosophila melanogaster</i> . <i>Nucleic Acids Research</i> , 2009, 37, 4308-4314.	14.5	21
79	Origination and evolution of orphan genes and de novo genes in the genome of <i>Caenorhabditis elegans</i> . <i>Science China Life Sciences</i> , 2019, 62, 579-593.	4.9	21
80	Isolation of <i>Caenorhabditis elegans</i> mutants lacking alcohol dehydrogenase activity. <i>Biochemical Genetics</i> , 1991, 29, 313-323.	1.7	20
81	Aspartyl proteinase genes from apicomplexan parasites: evidence for evolution of the gene structure. <i>Trends in Parasitology</i> , 2001, 17, 491-498.	3.3	20
82	Mutational bias shaping fly copy number variation: implications for genome evolution. <i>Trends in Genetics</i> , 2010, 26, 243-247.	6.7	20
83	Delta-Interacting Protein A and the Origin of Hepatitis Delta Antigen. <i>Science</i> , 1997, 276, 824-825.	12.6	19
84	The Yeast Splice Site Revisited: New Exon Consensus from Genomic Analysis. <i>Cell</i> , 1997, 91, 739-740.	28.9	19
85	Evolution of Gene Structural Complexity: An Alternative-Splicing-Based Model Accounts for Intron-Containing Retrogenes. <i>Plant Physiology</i> , 2014, 165, 412-423.	4.8	19
86	Evolution of Enzymatic Activities of Testis-Specific Short-Chain Dehydrogenase/Reductase in <i>Drosophila</i> . <i>Journal of Molecular Evolution</i> , 2010, 71, 241-249.	1.8	18
87	A cautionary note for retrocopy identification: DNA-based duplication of intron-containing genes significantly contributes to the origination of single exon genes. <i>Bioinformatics</i> , 2011, 27, 1749-1753.	4.1	18
88	An Intronic Signal for Alternative Splicing in the Human Genome. <i>PLoS ONE</i> , 2007, 2, e1246.	2.5	17
89	The correlation between introns and the three-dimensional structure of proteins. <i>Gene</i> , 1997, 205, 141-144.	2.2	16
90	Whole genome-wide chromosome fusion and new gene birth in the <i>Monopterus albus</i> genome. <i>Cell and Bioscience</i> , 2020, 10, 67.	4.8	16

#	ARTICLE	IF	CITATIONS
91	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.	7.1	15
92	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.	6.6	15
93	Positive selection for the male functionality of a co-retroposed gene in the hominoids. BMC Evolutionary Biology, 2009, 9, 252.	3.2	14
94	Nucleotide Variation and Recombination Along the Fourth Chromosome in <i>Drosophila simulans</i> . Genetics, 2004, 166, 1783-1794.	2.9	13
95	Evolutionary Patterns of RNA-Based Duplication in Non-Mammalian Chordates. PLoS ONE, 2011, 6, e21466.	2.5	13
96	Side effects of Tamiflu: clues from an Asian single nucleotide polymorphism. Cell Research, 2007, 17, 309-310.	12.0	12
97	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.	2.5	11
98	Genetic Architecture of Natural Variation Underlying Adult Foraging Behavior That Is Essential for Survival of <i>Drosophila melanogaster</i> . Genome Biology and Evolution, 2017, 9, 1357-1369.	2.5	11
99	Intron-exon structures. Advances in Genome Biology, 1998, , 143-178.	0.3	10
100	A Microarray Based Genomic Hybridization Method for Identification of New Genes in Plants: Case Analyses of <i>Arabidopsis</i> and <i>Oryza</i> . Journal of Integrative Plant Biology, 2007, 49, 915-926.	8.5	10
101	Meiotic Sex Chromosome Inactivation: Compensation by Gene Traffic. Current Biology, 2017, 27, R659-R661.	3.9	9
102	Evolutionary interactions between sex chromosomes and autosomes. , 2012, , 101-114.		9
103	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.	4.9	8
104	A New Retroposed Gene in <i>Drosophila</i> Heterochromatin Detected by Microarray-Based Comparative Genomic Hybridization. Journal of Molecular Evolution, 2007, 64, 272-283.	1.8	7
105	New genes important for development. EMBO Reports, 2014, 15, 460-461.	4.5	7
106	Retrogene Duplication and Expression Patterns Shaped by the Evolution of Sex Chromosomes in Malaria Mosquitoes. Genes, 2022, 13, 968.	2.4	7
107	Gene fusion as an important mechanism to generate new genes in the genus <i>Oryza</i> . Genome Biology, 2022, 23, .	8.8	7
108	Roles of young serine-endopeptidase genes in survival and reproduction revealed rapid evolution of phenotypic effects at adult stages. Fly, 2011, 5, 345-351.	1.7	5

#	ARTICLE	IF	CITATIONS
109	Significant divergence of sex-related non-coding RNA expression patterns among closely related species in <i>Drosophila</i> . <i>Science Bulletin</i> , 2007, 52, 748-754.	1.7	3
110	Rapid Gene Evolution in an Ancient Post-transcriptional and Translational Regulatory System Compensates for Meiotic X Chromosomal Inactivation. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	3
111	Deficiency of X-Linked Inverted Duplicates with Male-Biased Expression and the Underlying Evolutionary Mechanisms in the <i>Drosophila</i> Genome. <i>Molecular Biology and Evolution</i> , 2011, 28, 2823-2832.	8.9	2
112	Why rodent pseudogenes refuse to retire. <i>Genome Biology</i> , 2012, 13, 178.	9.6	2
113	Expressed Structurally Stable Inverted Duplicates in Mammalian Genomes as Functional Noncoding Elements. <i>Genome Biology and Evolution</i> , 2017, 9, 981-992.	2.5	2
114	Male non-coding RNA genes identified by comparative genomic analysis of the <i>Drosophila</i> genomes. <i>Science Bulletin</i> , 2007, 52, 721-724.	1.7	1
115	Segmental dataset and whole body expression data do not support the hypothesis that non-random movement is an intrinsic property of <i>Drosophila</i> retrogenes. <i>BMC Evolutionary Biology</i> , 2012, 12, 169.	3.2	1
116	V.6. Evolution of New Genes. , 2013, , 406-412.		1
117	Evolution of genes and genomes: an emerging paradigm in life science. <i>Science China Life Sciences</i> , 2019, 62, 435-436.	4.9	1
118	A zebrafish-specific chimeric gene evolved essential developmental functions: discussion of conceptual significance. <i>Science China Life Sciences</i> , 2021, 64, 840-842.	4.9	1
119	Rapid Cisâ€“Trans Coevolution Driven by a Novel Gene Retroposed from a Eukaryotic Conserved CCR4â€“NOT Component in <i>Drosophila</i> . <i>Genes</i> , 2022, 13, 57.	2.4	1