Peng Shi

List of Publications by Year in Descending Order

60 papers	3,386 citations	27 h-index	58 g-index
64 ext. papers	4,323 ext. citations	8.6 avg, IF	5.01 L-index

#	Paper	IF	Citations
60	Phylogenetic relationships of the zokor genus (Mammalia, Rodentia, Spalacidae) inferred from whole-genome analyses, with description of a new species endemic to Hengduan Mountains.. *Zoological Research*, **2022**, 43, 331-342	3.4	1
59	Gene losses may contribute to subterranean adaptations in naked mole-rat and blind mole-rat.. *BMC Biology*, **2022**, 20, 44	7.3	0
58	A New Homotetramer Hemoglobin in the Pulmonary Surfactant of Plateau Zokors ().. *Frontiers in Genetics*, **2022**, 13, 824049	4.5	0
57	Integrative Functional Transcriptomic Analyses Implicate Shared Molecular Circuits in Sensorineural Hearing Loss.. *Frontiers in Cellular Neuroscience*, **2022**, 16, 857344	6.1	0
56	Molecular convergence and transgenic evidence suggest a single origin of laryngeal echolocation in bats.. *IScience*, **2022**, 25, 104114	6.1	0
55	Mutation Selected for Hypoxia Adaptation Inhibits Tumor Growth. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 744992	5.7	1
54	A single mutation underlying phenotypic convergence for hypoxia adaptation on the Qinghai-Tibetan Plateau. *Cell Research*, **2021**, 31, 1032-1035	24.7	3
53	Echolocation in soft-furred tree mice. *Science*, **2021**, 372,	33.3	8
52	Cochlear hair cells of echolocating bats are immune to intense noise. *Journal of Genetics and Genomics*, **2021**, 48, 984-993	4	1
51	Phenotypic and genomic adaptations to the extremely high elevation in plateau zokor (Myospalax baileyi). *Molecular Ecology*, **2021**, 30, 5765-5779	5.7	1
50	A New World Monkey Resembles Human in Bitter Taste Receptor Evolution and Function via a Single Parallel Amino Acid Substitution. *Molecular Biology and Evolution*, **2021**, 38, 5472-5479	8.3	0
49	Genomic analysis of Asian honeybee populations in China reveals evolutionary relationships and adaptation to abiotic stress. *Ecology and Evolution*, **2020**, 10, 13427-13438	2.8	2
48	PAQR4 promotes chemoresistance in non-small cell lung cancer through inhibiting Nrf2 protein degradation. *Theranostics*, **2020**, 10, 3767-3778	12.1	28
47	Convergent genomic signatures of high-altitude adaptation among domestic mammals. *National Science Review*, **2020**, 7, 952-963	10.8	17
46	Identifying Lineage-Specific Targets of Natural Selection by a Bayesian Analysis of Genomic Polymorphisms and Divergence from Multiple Species. *Molecular Biology and Evolution*, **2019**, 36, 1302-1315	8.3	3
45	Comparative Analysis of the Liver and Spleen Transcriptomes between Holstein and Yunnan Humped Cattle. *Animals*, **2019**, 9,	3.1	1
44	YTHDF1 links hypoxia adaptation and non-small cell lung cancer progression. *Nature Communications*, **2019**, 10, 4892	17.4	140

43	The Transcriptomic Landscape of Yaks Reveals Molecular Pathways for High Altitude Adaptation. *Genome Biology and Evolution*, **2019**, 11, 72-85	3.9	24
42	Comparative genomic investigation of high-elevation adaptation in ectothermic snakes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8406-8411	11.5	43
41	Genomic and functional evidence reveals molecular insights into the origin of echolocation in whales. *Science Advances*, **2018**, 4, eaat8821	14.3	14
40	Down-Regulation of EPAS1 Transcription and Genetic Adaptation of Tibetans to High-Altitude Hypoxia. *Molecular Biology and Evolution*, **2017**, 34, 818-830	8.3	58
39	Lipidome determinants of maximal lifespan in mammals. *Scientific Reports*, **2017**, 7, 5	4.9	37
38	Bitterness Perception in Humans: An Evolutionary Perspective **2017**, 37-50		2
37	CTCF prevents genomic instability by promoting homologous recombination-directed DNA double-strand break repair. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10912-10917	11.5	46
36	Functional Effects of a Retained Ancestral Polymorphism in Prestin. *Molecular Biology and Evolution* , **2017**, 34, 88-92	8.3	8
35	Convergent Evolution of Rumen Microbiomes in High-Altitude Mammals. *Current Biology*, **2016**, 26, 1873-79	8.3	136
34	Parallel sites implicate functional convergence of the hearing gene prestin among echolocating mammals. *Molecular Biology and Evolution*, **2014**, 31, 2415-24	8.3	49
33	Spatial heterogeneity and co-occurrence patterns of human mucosal-associated intestinal microbiota. *ISME Journal*, **2014**, 8, 881-93	11.9	144
32	Independent birth of a novel TRIMCyp in Tupaia belangeri with a divergent function from its paralog TRIM5. *Molecular Biology and Evolution*, **2014**, 31, 2985-97	8.3	12
31	Repeated functional convergent effects of NaV1.7 on acid insensitivity in hibernating mammals. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20132950	4.4	20
30	Large-scale survey of gut microbiota associated with MHE Via 16S rRNA-based pyrosequencing. *American Journal of Gastroenterology*, **2013**, 108, 1601-11	0.7	104
29	Gut microbiota dysbiosis and bacterial community assembly associated with cholesterol gallstones in large-scale study. *BMC Genomics*, **2013**, 14, 669	4.5	99
28	Hearing aid for vertebrates via multiple episodic adaptive events on prestin genes. *Molecular Biology and Evolution*, **2012**, 29, 2187-98	8.3	17
27	The yak genome and adaptation to life at high altitude. *Nature Genetics*, **2012**, 44, 946-9	36.3	472
26	Phylogenomic reconstruction of lactic acid bacteria: an update. *BMC Evolutionary Biology*, **2011**, 11, 1	3	166

25	Parallel evolution of KCNQ4 in echolocating bats. *PLoS ONE*, **2011**, 6, e26618	3.7	31
24	Molecular and evolutionary analyses of formyl peptide receptors suggest the absence of VNO-specific FPRs in primates. *Journal of Genetics and Genomics*, **2010**, 37, 771-8	4	9
23	More functional V1R genes occur in nest-living and nocturnal terricolous mammals. *Genome Biology and Evolution*, **2010**, 2, 277-83	3.9	24
22	Comparative genomic analysis reveals more functional nasal chemoreceptors in nocturnal mammals than in diurnal mammals. *Science Bulletin*, **2010**, 55, 3901-3910		6
21	The hearing gene Prestin unites echolocating bats and whales. *Current Biology*, **2010**, 20, R55-6	6.3	133
20	Large gene family expansions and adaptive evolution for odorant and gustatory receptors in the pea aphid, Acyrthosiphon pisum. *Molecular Biology and Evolution*, **2009**, 26, 2073-86	8.3	140
19	Largest vertebrate vomeronasal type 1 receptor gene repertoire in the semiaquatic platypus. *Molecular Biology and Evolution*, **2007**, 24, 2153-7	8.3	72
18	Comparative genomic analysis identifies an evolutionary shift of vomeronasal receptor gene repertoires in the vertebrate transition from water to land. *Genome Research*, **2007**, 17, 166-74	9.7	155
17	More genes underwent positive selection in chimpanzee evolution than in human evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 7489-94	11.5	161
16	Evolutionary dynamics of the ABCA chromosome 17q24 cluster genes in vertebrates. *Genomics*, **2007**, 89, 385-91	4.3	11
15	Did brain-specific genes evolve faster in humans than in chimpanzees?. *Trends in Genetics*, **2006**, 22, 608-13	13	42
14	Contrasting modes of evolution between vertebrate sweet/umami receptor genes and bitter receptor genes. *Molecular Biology and Evolution*, **2006**, 23, 292-300	8.3	200
13	Evolutionary implications of Avian Infectious Bronchitis Virus (AIBV) analysis. *Cell Research*, **2006**, 16, 323-7	24.7	7
12	Independent origin of the growth hormone gene family in New World monkeys and Old World monkeys/hominoids. *Journal of Molecular Endocrinology*, **2005**, 35, 399-409	4.5	22
11	Molecular evolution of growth hormone gene family in old world monkeys and hominoids. *Gene*, **2005**, 350, 183-92	3.8	18
10	Composition and evolution of the V2r vomeronasal receptor gene repertoire in mice and rats. *Genomics*, **2005**, 86, 306-15	4.3	128
9	Adaptive diversification of vomeronasal receptor 1 genes in rodents. *Journal of Molecular Evolution*, **2005**, 60, 566-76	3.1	52
8	Dramatic variation of the vomeronasal pheromone receptor gene repertoire among five orders of placental and marsupial mammals. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 5767-72	11.5	154

7	Bitter and sweet/umami taste receptors with differently evolutionary pathways. *Journal of Genetics and Genomics*, **2005**, 32, 346-53		
6	Adaptive diversification of bitter taste receptor genes in Mammalian evolution. *Molecular Biology and Evolution*, **2003**, 20, 805-14	8.3	219
5	Interspecies implantation and mitochondria fate of panda-rabbit cloned embryos. *Biology of Reproduction*, **2002**, 67, 637-42	3.9	110
4	Melanocortin-1 receptor gene variants in four Chinese ethnic populations. *Cell Research*, **2001**, 11, 81-4	24.7	29
3	Microsatellite DNA analysis proves nucleus of interspecies reconstructed blastocyst coming from that of donor giant panda. *Science Bulletin*, **2000**, 45, 1883-1885		2
2	Convergent genomic signatures of high altitude adaptation among domestic mammals		1
1	Taste, Chemical Biology of1		1