Dennis V Lavrov

List of Publications by Year
in descending order

62 papers	5,782 citations	126907 33 h-index	155660 55 g-index
67 all docs	67 docs citations	67 times ranked	5313 citing authors

#	Article	IF	Citations
1	Resolving Difficult Phylogenetic Questions: Why More Sequences Are Not Enough. PLoS Biology, 2011, 9, e1000602.	5.6	932
2	Gene translocation links insects and crustaceans. Nature, 1998, 392, 667-668.	27.8	610
3	A novel type of RNA editing occurs in the mitochondrial tRNAs of the centipede Lithobius forficatus. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13738-13742.	7.1	288
4	Complete mtDNA Sequences of Two Millipedes Suggest a New Model for Mitochondrial Gene Rearrangements: Duplication and Nonrandom Loss. Molecular Biology and Evolution, 2002, 19, 163-169.	8.9	266
5	Phylogenetic position of the Pentastomida and (pan)crustacean relationships. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 537-544.	2.6	222
6	Rapidly Evolving Mitochondrial Genome and Directional Selection in Mitochondrial Genes in the Parasitic Wasp Nasonia (Hymenoptera: Pteromalidae). Molecular Biology and Evolution, 2008, 25, 2167-2180.	8.9	210
7	The Complete Mitochondrial DNA Sequence of the Horseshoe Crab Limulus polyphemus. Molecular Biology and Evolution, 2000, 17, 813-824.	8.9	199
8	Cnidarian phylogenetic relationships as revealed by mitogenomics. BMC Evolutionary Biology, 2013, 13, 5.	3.2	185
9	<i>Trichinella spiralis</i> mtDNA: A Nematode Mitochondrial Genome That Encodes a Putative ATP8 and Normally Structured tRNAs and Has a Gene Arrangement Relatable to Those of Coelomate Metazoans. Genetics, 2001, 157, 621-637.	2.9	182
10	Mitochondrial Genomes of Two Demosponges Provide Insights into An Early Stage of Animal Evolution. Molecular Biology and Evolution, 2005, 22, 1231-1239.	8.9	166
11	Ecdysozoan Mitogenomics: Evidence for a Common Origin of the Legged Invertebrates, the Panarthropoda. Genome Biology and Evolution, 2010, 2, 425-440.	2.5	154
12	Animal Mitochondrial DNA as We Do Not Know It: mt-Genome Organization and Evolution in Nonbilaterian Lineages. Genome Biology and Evolution, 2016, 8, 2896-2913.	2.5	154
13	Reconstructing ordinal relationships in the Demospongiae using mitochondrial genomic data. Molecular Phylogenetics and Evolution, 2008, 49, 111-124.	2.7	136
14	Key transitions in animal evolution: a mitochondrial DNA perspective. Integrative and Comparative Biology, 2007, 47, 734-743.	2.0	122
15	Evolution of Linear Mitochondrial Genomes in Medusozoan Cnidarians. Genome Biology and Evolution, 2012, 4, 1-12.	2.5	122
16	Seventeen New Complete mtDNA Sequences Reveal Extensive Mitochondrial Genome Evolution within the Demospongiae. PLoS ONE, 2008, 3, e2723.	2.5	122
17	Deep Phylogeny and Evolution of Sponges (Phylum Porifera). Advances in Marine Biology, 2012, 61, 1-78.	1.4	116
18	Poriferan mtDNA and Animal Phylogeny Based on Mitochondrial Gene Arrangements. Systematic Biology, 2005, 54, 651-659.	5.6	108

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19	The Global Invertebrate Genomics Alliance (GIGA): Developing Community Resources to Study Diverse Invertebrate Genomes. Journal of Heredity, 2014, 105, 1-18.	2.4	96
20	Sequencing complete mitochondrial and plastid genomes. Nature Protocols, 2007, 2, 603-614.	12.0	84
21	Mitochondrial genome of the moon jelly Aurelia aurita (Cnidaria, Scyphozoa): A linear DNA molecule encoding a putative DNA-dependent DNA polymerase. Gene, 2006, 381, 92-101.	2.2	82
22	Extreme mitochondrial evolution in the ctenophore<i>Mnemiopsis leidyi</i>: Insight from mtDNA and the nuclear genome. Mitochondrial DNA, 2011, 22, 130-142.	0.6	81
23	Transfer RNA gene recruitment in mitochondrial DNA. Trends in Genetics, 2005, 21, 129-133.	6.7	80
24	Mitochondrial DNA of Clathrina clathrus (Calcarea, Calcinea): Six Linear Chromosomes, Fragmented rRNAs, tRNA Editing, and a Novel Genetic Code. Molecular Biology and Evolution, 2013, 30, 865-880.	8.9	78
25	Molecular Phylogeny Restores the Supra-Generic Subdivision of Homoscleromorph Sponges (Porifera,) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	76
26	The mitochondrial genome of Hydra oligactis (Cnidaria, Hydrozoa) sheds new light on animal mtDNA evolution and cnidarian phylogeny. Gene, 2008, 410, 177-186.	2.2	74
27	Glass Sponges and Bilaterian Animals Share Derived Mitochondrial Genomic Features: A Common Ancestry or Parallel Evolution?. Molecular Biology and Evolution, 2007, 24, 1518-1527.	8.9	70
28	Mitochondrial Genome of the Homoscleromorph Oscarella carmela (Porifera, Demospongiae) Reveals Unexpected Complexity in the Common Ancestor of Sponges and Other Animals. Molecular Biology and Evolution, 2006, 24, 363-373.	8.9	66
29	RNA interference in marine and freshwater sponges: actin knockdown in Tethya wilhelma and Ephydatia muelleriby ingested dsRNA expressing bacteria. BMC Biotechnology, 2011, 11, 67.	3.3	49
30	Cytonuclear Interactions in the Evolution of Animal Mitochondrial tRNA Metabolism. Genome Biology and Evolution, 2015, 7, 2089-2101.	2.5	44
31	Rapid Proliferation of Repetitive Palindromic Elements in mtDNA of the Endemic Baikalian Sponge Lubomirskia baicalensis. Molecular Biology and Evolution, 2010, 27, 757-760.	8.9	43
32	Parallel Loss of Nuclear-Encoded Mitochondrial Aminoacyl-tRNA Synthetases and mtDNA-Encoded tRNAs in Cnidaria. Molecular Biology and Evolution, 2010, 27, 2216-2219.	8.9	40
33	Extensive and Evolutionarily Persistent Mitochondrial tRNA Editing in Velvet Worms (Phylum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	8.9	40
34	The mitochondrial genomes of sponges provide evidence for multiple invasions by Repetitive Hairpin-forming Elements (RHE). BMC Genomics, 2009, 10, 591.	2.8	39
35	Transcriptome sequencing and delimitation of sympatric Oscarella species (O. carmela and O. pearsei) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	35
36	Extensive Mitochondrial mRNA Editing and Unusual Mitochondrial Genome Organization in Calcaronean Sponges. Current Biology, 2016, 26, 86-92.	3.9	34

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37	Gene recruitment â€“ A common mechanism in the evolution of transfer RNA gene families. Gene, 2011, 475, 22-29.	2.2	31
38	The Integrative Taxonomic Approach Applied to Porifera: A Case Study of the Homoscleromorpha. Integrative and Comparative Biology, 2013, 53, 416-427.	2.0	31
39	Molecular and morphological description of a new species of Halisarca (Demospongiae: Halisarcida) from Mediterranean Sea and a redescription of the type species Halisarca dujardini. Zootaxa, 2011, 2768, .	0.5	30
40	Small inverted repeats drive mitochondrial genome evolution in Lake Baikal sponges. Gene, 2012, 505, 91-99.	2.2	29
41	Dinoflagellates Associated with Freshwater Sponges from the Ancient Lake Baikal. Protist, 2011, 162, 222-236.	1.5	27
42	Eight new mtDNA sequences of glass sponges reveal an extensive usage of +1 frameshifting in mitochondrial translation. Gene, 2014, 535, 336-344.	2.2	26
43	Five new species of Homoscleromorpha (Porifera) from the Caribbean Sea and re-description ofPlakina jamaicensis. Journal of the Marine Biological Association of the United Kingdom, 2014, 94, 285-307.	0.8	26
44	Molecular phylogeny of glass sponges (Porifera, Hexactinellida): increased taxon sampling and inclusion of the mitochondrial protein-coding gene, cytochrome oxidase subunit I. Hydrobiologia, 2012, 687, 11-20.	2.0	24
45	Mitochondrial tRNA Structure, Identity, and Evolution of the Genetic Code. , 2012, , 431-474.		22
46	Systematics and Molecular Phylogeny of the Family Oscarellidae (Homoscleromorpha) with Description of Two New Oscarella Species. PLoS ONE, 2013, 8, e63976.	2.5	22
47	Comparative study of human mitochondrial proteome reveals extensive protein subcellular relocalization after gene duplications. BMC Evolutionary Biology, 2009, 9, 275.	3.2	18
48	Ancestral state reconstruction infers phytopathogenic origins of sooty blotch and flyspeck fungi on apple. Mycologia, 2016, 108, 292-302.	1.9	18
49	Large dataset of octocoral mitochondrial genomes provides new insights into mt-mutS evolution and function. DNA Repair, 2022, 110, 103273.	2.8	16
50	The Twin-Arginine Subunit C in Oscarella : Origin, Evolution, and Potential Functional Significance. Integrative and Comparative Biology, 2013, 53, 495-502.	2.0	15
51	Characterization of mitochondrial proteomes of nonbilaterian animals. IUBMB Life, 2018, 70, 1289-1301.	3.4	9
52	Comparison of Haemophilus parasuis reference strains and field isolates by using random amplified polymorphic DNA and protein profiles. BMC Microbiology, 2012, 12, 108.	3.3	8
53	Multiple Losses of MSH1, Gain of mtMutS, and Other Changes in the MutS Family of DNA Repair Proteins in Animals. Genome Biology and Evolution, 2021, 13, .	2.5	7
54	Integrative taxonomic re-description of Halisarca magellanica and description of a new species of Halisarca (Porifera, Demospongiae) from Chilean PatagoniaÂ. Zootaxa, 2016, 4208, zootaxa.4208.6.1.	0.5	6

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55	Mitochondrial Genomes in Invertebrate Animals. , 2014, , 1-8.		3
56	Causes and consequences of mitochondrial proteome size variation in animals. Mitochondrion, 2020, 52, 100-107.	3.4	2
57	MMPdb and MitoPredictor: Tools for facilitating comparative analysis of animal mitochondrial proteomes. Mitochondrion, 2020, 51, 118-125.	3.4	2
58	Mitochondrial Genomes in Unicellular Relatives of Animals. , 2014, , 1-4.		2
59	Key Transitions in Animal Evolution. , 2010, , 34-53.		1
60	Mitochondrial Genomes in Unicellular Relatives of Animals. , 2018, , 742-745.		0
61	Molecular phylogeny of glass sponges (Porifera, Hexactinellida): increased taxon sampling and inclusion of the mitochondrial protein-coding gene, cytochrome oxidase subunit I. , 2011, , 11-20.		0
62	Mitochondrial Genomes in Invertebrate Animals. , 2018, , 728-734.		0