Norihiro Okada

List of Publications by Year
in descending order

134 papers	9,921 citations	50276 46 h-index	38395 95 g-index
136 all docs	136 docs citations	136 times ranked	7320 citing authors

#	Article	IF	Citations
1	Speciation through sensory drive in cichlid fish. Nature, 2008, 455, 620-626.	27.8	947
2	The genomic substrate for adaptive radiation in African cichlid fish. Nature, 2014, 513, 375-381.	27.8	874
3	Molecular evidence from retroposons that whales form a clade within even-toed ungulates. Nature, 1997, 388, 666-670.	27.8	413
4	Phylogenetic relationships among cetartiodactyls based on insertions of short and long interpersed elements: Hippopotamuses are the closest extant relatives of whales. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10261-10266.	7.1	402
5	SINE insertions: powerful tools for molecular systematics. BioEssays, 2000, 22, 148-160.	2.5	336
6	Towards Resolving the Interordinal Relationships of Placental Mammals. Systematic Biology, 1999, 48, 1-5.	5.6	306
7	LINEs Mobilize SINEs in the Eel through a Shared 3â€² Sequence. Cell, 2002, 111, 433-444.	28.9	295
8	SINEs and LINEs share common 3â€² sequences: a review. Gene, 1997, 205, 229-243.	2.2	256
9	Retroposon analysis of major cetacean lineages: The monophyly of toothed whales and the paraphyly of river dolphins. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7384-7389.	7.1	239
10	Conflict Among Individual Mitochondrial Proteins in Resolving the Phylogeny of Eutherian Orders. Journal of Molecular Evolution, 1998, 47, 307-322.	1.8	208
11	Pegasoferae, an unexpected mammalian clade revealed by tracking ancient retroposon insertions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9929-9934.	7.1	207
12	Functional noncoding sequences derived from SINEs in the mammalian genome. Genome Research, 2006, 16, 864-874.	5.5	207
13	SINEs. Current Opinion in Genetics and Development, 1991, 1, 498-504.	3.3	200
14	Phylogenetic Relationships and Ancient Incomplete Lineage Sorting Among Cichlid Fishes in Lake Tanganyika as Revealed by Analysis of the Insertion of Retroposons. Molecular Biology and Evolution, 2001, 18, 2057-2066.	8.9	191
15	Determination of the phylogenetic relationships among Pacific salmonids by using short interspersed elements (SINEs) as temporal landmarks of evolution.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 6995-6999.	7.1	188
16	Whole-genome screening indicates a possible burst of formation of processed pseudogenes and Alu repeats by particular L1 subfamilies in ancestral primates. Genome Biology, 2003, 4, R74.	9.6	172
17	SINEs: Short interspersed repeated elements of the eukaryotic genome. Trends in Ecology and Evolution, 1991, 6, 358-361.	8.7	167
18	Divergent Selection on Opsins Drives Incipient Speciation in Lake Victoria Cichlids. PLoS Biology, 2006, 4, e433.	5.6	167

#	Article	IF	Citations
19	Retroposon analysis and recent geological data suggest near-simultaneous divergence of the three superorders of mammals. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5235-5240.	7.1	162
20	SINEs of speciation: tracking lineages with retroposons. Trends in Ecology and Evolution, 2004, 19, 545-553.	8.7	143
21	B Chromosomes Have a Functional Effect on Female Sex Determination in Lake Victoria Cichlid Fishes. PLoS Genetics, 2011, 7, e1002203.	3.5	134
22	Maximum Likelihood Analysis of the Complete Mitochondrial Genomes of Eutherians and a Reevaluation of the Phylogeny of Bats and Insectivores. Journal of Molecular Evolution, 2001, 53, 508-516.	1.8	128
23	Genetic Evidence That the Non-Homologous End-Joining Repair Pathway Is Involved in LINE Retrotransposition. PLoS Genetics, 2009, 5, e1000461.	3.5	121
24	Poxviruses as possible vectors for horizontal transfer of retroposons from reptiles to mammals. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12046-12051.	7.1	119
25	Nonlinear partial differential equations and applications: The effect of selection on a long wavelength-sensitive (LWS) opsin gene of Lake Victoria cichlid fishes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15501-15506.	7.1	118
26	Rodent type 2 Alu family, rat identifier sequence, rabbit C family, and bovine or goat 73-bp repeat may have evolved from tRNA genes. Journal of Molecular Evolution, 1985, 22, 134-140.	1.8	111
27	Protein phylogeny of translation elongation factor EF-1Î± suggests microsporidians are extremely ancient eukaryotes. Journal of Molecular Evolution, 1996, 42, 257-263.	1.8	110
28	Coelacanth genomes reveal signatures for evolutionary transition from water to land. Genome Research, 2013, 23, 1740-1748.	5.5	108
29	V-SINEs: A New Superfamily of Vertebrate SINEs That Are Widespread in Vertebrate Genomes and Retain a Strongly Conserved Segment within Each Repetitive Unit. Genome Research, 2002, 12, 316-324.	5.5	97
30	A Retroposon Analysis of Afrotherian Phylogeny. Molecular Biology and Evolution, 2005, 22, 1823-1833.	8.9	88
31	The 3â€² ends of tRNA-derived SINEs originated from the 3â€™ ends of LINEs: A new example from the bovine genome. Journal of Molecular Evolution, 1997, 44, S52-S56.	1.8	85
32	Balaenoptera omurai is a newly discovered baleen whale that represents an ancient evolutionary lineage. Molecular Phylogenetics and Evolution, 2006, 41, 40-52.	2.7	84
33	Rooting the eutherian tree: the power and pitfalls of phylogenomics. Genome Biology, 2007, 8, R199.	9.6	82
34	Ancient SINEs from African Endemic Mammals. Molecular Biology and Evolution, 2003, 20, 522-527.	8.9	81
35	Characterization of Novel Alu- and tRNA-Related SINEs from the Tree Shrew and Evolutionary Implications of Their Origins. Molecular Biology and Evolution, 2002, 19, 1964-1972.	8.9	76
36	The Origin of Chlorarachniophyte Plastids, as Inferred from Phylogenetic Comparisons of Amino Acid Sequences of EF-Tu. Journal of Molecular Evolution, 1997, 45, 682-687.	1.8	72

#	Article	IF	Citations
37	Details of Retropositional Genome Dynamics That Provide a Rationale for a Generic Division: The Distinct Branching of All the Pacific Salmon and Trout (<i>Oncorhynchus</i>) From the Atlantic Salmon and Trout (<i>Salmo</i>). Genetics, 1996, 142, 915-926.	2.9	71
38	Baleen Whale Phylogeny and a Past Extensive Radiation Event Revealed by SINE Insertion Analysis. Molecular Biology and Evolution, 2006, 23, 866-873.	8.9	69
39	Monophyletic Origin of the Order Chiroptera and Its Phylogenetic Position Among Mammalia, as Inferred from the Complete Sequence of the Mitochondrial DNA of a Japanese Megabat, the Ryukyu Flying Fox (Pteropus dasymallus). Journal of Molecular Evolution, 2000, 51, 318-328.	1.8	62
40	Mitochondrial phylogeny of hedgehogs and monophyly of Eulipotyphla. Molecular Phylogenetics and Evolution, 2003, 28, 276-284.	2.7	61
41	Intra- and Interfamily Relationships of Vespertilionidae Inferred by Various Molecular Markers Including SINE Insertion Data. Journal of Molecular Evolution, 2002, 55, 284-301.	1.8	60
42	Sauria SINEs: Novel Short Interspersed Retroposable Elements That Are Widespread in Reptile Genomes. Journal of Molecular Evolution, 2006, 62, 630-644.	1.8	55
43	SINE Evolution, Missing Data, and the Origin of Whales. Systematic Biology, 2000, 49, 808-817.	5.6	54
44	The Evolution of the Pro-Domain of Bone Morphogenetic Protein 4 (Bmp4) in an Explosively Speciated Lineage of East African Cichlid Fishes. Molecular Biology and Evolution, 2002, 19, 1628-1632.	8.9	52
45	Using SINEs to Probe Ancient Explosive Speciation: "Hidden" Radiation of African Cichlids?. Molecular Biology and Evolution, 2003, 20, 924-930.	8.9	50
46	A Newly Isolated Family of Short Interspersed Repetitive Elements (SINEs) in Coregonid Fishes (Whitefish) With Sequences That Are Almost Identical To Those of the SmaI Family of Repeats: Possible Evidence for the Horizontal Transfer of SINEs. Genetics, 1997, 146, 355-367.	2.9	49
47	Retroposon Mapping in Molecular Systematics. , 2004, 260, 189-226.		47
48	First Application of the SINE (Short Interspersed Repetitive Element) Method to Infer Phylogenetic Relationships in Reptiles: An Example from the Turtle Superfamily Testudinoidea. Molecular Biology and Evolution, 2004, 21, 705-715.	8.9	46
49	Correlation between Nuptial Colors and Visual Sensitivities Tuned by Opsins Leads to Species Richness in Sympatric Lake Victoria Cichlid Fishes. Molecular Biology and Evolution, 2012, 29, 3281-3296.	8.9	45
50	Amplification of Distinct Subfamilies of Short Interspersed Elements During Evolution of the Salmonidae. Journal of Molecular Biology, 1994, 241, 633-644.	4.2	44
51	Toothed whale monophyly reassessed by SINE insertion analysis: The absence of lineage sorting effects suggests a small population of a common ancestral species. Molecular Phylogenetics and Evolution, 2007, 43, 216-224.	2.7	43
52	Isolation and characterization of retrotransposition-competent LINEs from zebrafish. Gene, 2006, 365, 74-82.	2.2	42
53	The evolution of two partner LINE/SINE families and a full-length chromodomain-containing Ty3/Gypsy LTR element in the first reptilian genome of Anolis carolinensis. Gene, 2009, 441, 111-118.	2.2	41
54	Molecular developmental mechanism in polypterid fish provides insight into the origin of vertebrate lungs. Scientific Reports, 2016, 6, 30580.	3.3	41

#	Article	IF	Citations
55	The rise and fall of the CR1 subfamily in the lineage leading to penguins. Gene, 2006, 365, 57-66.	2.2	39
56	Phylogenetic Relationships Among East African Haplochromine Fish as Revealed by Short Interspersed Elements (SINEs). Journal of Molecular Evolution, 2004, 58, 64-78.	1.8	38
57	A Novel tRNA Species as an Origin of Short Interspersed Repetitive Elements (SINEs). Journal of Molecular Biology, 1994, 239, 731-735.	4.2	36
58	Characterization of species-specifically amplified SINEs in three salmonid speciesâ€"Chum salmon, pink salmon, and kokanee: The local environment of the genome may be important for the generation of a dominant source gene at a newly retroposed locus. Journal of Molecular Evolution, 1996, 42, 103-116.	1.8	36
59	A highly repetitive and transcribable sequence in the tortoise genome is probably a retroposon. FEBS Journal, 1990, 189, 25-31.	0.2	35
60	Consistency of SINE Insertion Topology and Flanking Sequence Tree: Quantifying Relationships Among Cetartiodactyls. Molecular Biology and Evolution, 2000, 17, 1417-1424.	8.9	35
61	Retroposition of the AFC Family of SINEs (Short Interspersed Repetitive Elements) Before and During the Adaptive Radiation of Cichlid Fishes in Lake Malawi and Related Inferences About Phylogeny. Journal of Molecular Evolution, 2001, 53, 496-507.	1.8	35
62	Evolution of CHR-2 SINEs in cetartiodactyl genomes: possible evidence for the monophyletic origin of toothed whales. Mammalian Genome, 2001, 12, 909-915.	2.2	34
63	Unique Mammalian tRNA-Derived Repetitive Elements in Dermopterans: The t-SINE Family and Its Retrotransposition Through Multiple Sources. Molecular Biology and Evolution, 2003, 20, 1659-1668.	8.9	34
64	Vertebrate Rhodopsin Adaptation to Dim Light via Rapid Meta-II Intermediate Formation. Molecular Biology and Evolution, 2010, 27, 506-519.	8.9	34
65	The Salmon <i>Sma</i>I Family of Short Interspersed Repetitive Elements (SINEs): Interspecific and Intraspecific Variation of the Insertion of SINEs in the Genomes of Chum and Pink Salmon. Genetics, 1997, 146, 369-380.	2.9	34
66	Detection of the Ongoing Sorting of Ancestrally Polymorphic SINEs Toward Fixation or Loss in Populations of Two Species of Charr During Speciation. Genetics, 1998, 150, 301-311.	2.9	34
67	Generality of the tRNA Origin of Short Interspersed Repetitive Elements (SINEs). Journal of Molecular Biology, 1994, 243, 25-37.	4.2	33
68	Reverse Evolution in RH1 for Adaptation of Cichlids to Water Depth in Lake Tanganyika. Molecular Biology and Evolution, 2011, 28, 1769-1776.	8.9	33
69	Evolution of the active sequences of the HpaI short interspersed elements. Journal of Molecular Evolution, 1995, 41, 986-95.	1.8	29
70	Isolation and Characterization of Active LINE and SINEs from the Eel. Molecular Biology and Evolution, 2005, 22, 673-682.	8.9	29
71	Extensive Morphological Convergence and Rapid Radiation in the Evolutionary History of the Family Geoemydidae (Old World Pond Turtles) Revealed by SINE Insertion Analysis. Systematic Biology, 2006, 55, 912-927.	5.6	29
72	Characterization of a novel SINE superfamily from invertebrates: â€œCeph-SINEsâ€•from the genomes of squids and cuttlefish. Gene, 2010, 454, 8-19.	2.2	28

#	Article	IF	Citations
73	Visual adaptation in Lake Victoria cichlid fishes: depth-related variation of color and scotopic opsins in species from sand/mud bottoms. BMC Evolutionary Biology, 2017, 17, 200.	3.2	28
74	Novel SINE Families from Salmons Validate Parahucho (Salmonidae) as a Distinct Genus and Give Evidence that SINEs Can Incorporate LINE-related 3â€²-Tails of Other SINEs. Molecular Biology and Evolution, 2007, 24, 1656-1666.	8.9	27
75	Emergence of mammals by emergency: exaptation. Genes To Cells, 2010, 15, 801-812.	1.2	27
76	Lineage-Specific Expansion of Vomeronasal Type 2 Receptor-Like (OlfC) Genes in Cichlids May Contribute to Diversification of Amino Acid Detection Systems. Genome Biology and Evolution, 2013, 5, 711-722.	2.5	26
77	Mosaic Structure and Retropositional Dynamics During Evolution of Subfamilies of Short Interspersed Elements in African Cichlids. Molecular Biology and Evolution, 2002, 19, 1303-1312.	8.9	25
78	Solution structure of an RNA stem-loop derived from the 3' conserved region of eel LINE UnaL2. Rna, 2004, 10, 1380-1387.	3.5	24
79	Retroposons of salmonoid fishes (Actinopterygii: Salmonoidei) and their evolution. Gene, 2009, 434, 16-28.	2.2	24
80	magp4 gene may contribute to the diversification of cichlid morphs and their speciation. Gene, 2006, 373, 126-133.	2.2	23
81	Newly discovered young CORE-SINEs in marsupial genomes. Gene, 2008, 407, 176-185.	2.2	23
82	Mechanism by which a LINE protein recognizes its 3â€² tail RNA. Nucleic Acids Research, 2014, 42, 10605-10617.	14.5	22
83	Multiple Episodic Evolution Events in V1R Receptor Genes of East-African Cichlids. Genome Biology and Evolution, 2014, 6, 1135-1144.	2.5	22
84	MetaSINEs: Broad Distribution of a Novel SINE Superfamily in Animals. Genome Biology and Evolution, 2016, 8, 528-539.	2.5	22
85	Behavioral and brain- transcriptomic synchronization between the two opponents of a fighting pair of the fish Betta splendens. PLoS Genetics, 2020, 16, e1008831.	3.5	22
86	Retroposons: Genetic Footprints on the Evolutionary Paths of Life. Methods in Molecular Biology, 2008, 422, 201-225.	0.9	20
87	Evolution of Shh endoderm enhancers during morphological transition from ventral lungs to dorsal gas bladder. Nature Communications, 2017, 8, 14300.	12.8	19
88	Solution structure and functional importance of a conserved RNA hairpin of eel LINE UnaL2. Nucleic Acids Research, 2006, 34, 5184-5193.	14.5	18
89	Characterization of V1R receptor (ora) genes in Lake Victoria cichlids. Gene, 2012, 499, 273-279.	2.2	18
90	Genetic variation and demographic history of the Haplochromis laparogramma group of Lake Victoriaâ€"An analysis based on SINEs and mitochondrial DNA. Gene, 2010, 450, 39-47.	2.2	17

#	Article	IF	Citations
91	Laterality is Universal Among Fishes but Increasingly Cryptic Among Derived Groups. Zoological Science, 2017, 34, 267.	0.7	17
92	Determining the Position of Storks on the Phylogenetic Tree of Waterbirds by Retroposon Insertion Analysis. Genome Biology and Evolution, 2015, 7, 3180-3189.	2.5	16
93	Distinct functions of two olfactory marker protein genes derived from teleost-specific whole genome duplication. BMC Evolutionary Biology, 2015, 15, 245.	3.2	16
94	Extensive analysis of EST sequences reveals that all cichlid species in Lake Victoria share almost identical transcript sets. Gene, 2009, 441, 187-191.	2.2	14
95	A microsatellite-based genetic linkage map and putative sex-determining genomic regions in Lake Victoria cichlids. Gene, 2015, 560, 156-164.	2.2	12
96	Molecular evidence from short interspersed elements (SINEs) that Oncorhynchus masou (cherry) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.4	11
97	Probing the secondary structure of salmon SmaI SINE RNA. Gene, 2006, 365, 67-73.	2.2	11
98	Functional splice sites in a zebrafish LINE and their influence on zebrafish gene expression. Gene, 2007, 390, 221-231.	2.2	11
99	MyrSINEs: A novel SINE family in the anteater genomes. Gene, 2007, 400, 98-103.	2.2	11
100	Genomic expansion of the Bov-A2 retroposon relating to phylogeny and breed management. Mammalian Genome, 2007, 18, 187-196.	2.2	11
101	mRNA Retrotransposition Coupled with 5' Inversion as a Possible Source of New Genes. Molecular Biology and Evolution, 2009, 26, 1405-1420.	8.9	11
102	Genetic Structure of Pelagic and Littoral Cichlid Fishes from Lake Victoria. PLoS ONE, 2013, 8, e74088.	2.5	11
103	Intron retention as a new pre-symptomatic marker of aging and its recovery to the normal state by a traditional Japanese multi-herbal medicine. Gene, 2021, 794, 145752.	2.2	10
104	Analysis on Effectiveness of Surrogate Data-Based Laser Chaos Decision Maker. Complexity, 2021, 2021, 1-9.	1.6	9
105	Genomic Signatures for Species-Specific Adaptation in Lake Victoria Cichlids Derived from Large-Scale Standing Genetic Variation. Molecular Biology and Evolution, 2021, 38, 3111-3125.	8.9	9
106	User pairing using laser chaos decision maker for NOMA systems. Nonlinear Theory and Its Applications IEICE, 2022, 13, 72-83.	0.6	9
107	Evolutionary Changes in Vertebrate Genome Signatures with Special Focus on Coelacanth. DNA Research, 2014, 21, 459-467.	3.4	8
108	CetSINEs and AREs are not SINEs but are parts of cetartiodactyl L1. Mammalian Genome, 2000, 11, 1123-1126.	2.2	7

#	Article	IF	Citations
109	Genomic alterations upon integration of zebrafish L1 elements revealed by the TANT method. Gene, 2006, 383, 108-116.	2.2	7
110	High prevalence of non-synonymous substitutions in mtDNA of cichlid fishes from Lake Victoria. Gene, 2014, 552, 239-245.	2.2	7
111	A new system for analyzing LINE retrotransposition in the chicken DT40 cell line widely used for reverse genetics. Gene, 2007, 395, 116-124.	2.2	6
112	A new mechanism to ensure integration during LINE retrotransposition: A suggestion from analyses of the 5â€² extra nucleotides. Gene, 2012, 505, 345-351.	2.2	6
113	Solution structure of a reverse transcriptase recognition site of a LINE RNA from zebrafish. Journal of Biochemistry, 2017, 162, 279-285.	1.7	6
114	Implication of a new function of human tDNAs in chromatin organization. Scientific Reports, 2020, 10, 17440.	3.3	6
115	Speciation of Cichlid Fishes by Sensory Drive. Primatology Monographs, 2011, , 311-328.	0.8	6
116	Kampo formulas alleviate aging-related emotional disturbances and neuroinflammation in male senescence-accelerated mouse prone 8 mice. Aging, 2022, 14, 109-142.	3.1	5
117	Integrated mechanism for the generation of the 5â€² junctions of LINE inserts. Nucleic Acids Research, 2014, 42, 13269-13279.	14.5	4
118	Sensory drive speciation and patterns of variation at selectively neutral genes. Evolutionary Ecology, 2014, 28, 591-609.	1.2	4
119	Patterns of genomic differentiation between two Lake Victoria cichlid species, Haplochromis pyrrhocephalus and H. sp. â€˜maculaâ€™. BMC Evolutionary Biology, 2019, 19, 68.	3.2	4
120	LINE retrotransposition and host DNA repair machinery. Mobile Genetic Elements, 2015, 5, 92-97.	1.8	3
121	A unique neurogenomic state emerges after aggressive confrontations in males of the fish Betta splendens. Gene, 2021, 784, 145601.	2.2	3
122	SINE insertions: powerful tools for molecular systematics. , 0, .		3
123	SINEs as Credible Signs to Prove Common Ancestry in the Tree of Life: A Brief Review of Pioneering Case Studies in Retroposon Systematics. Genes, 2022, 13, 989.	2.4	3
124	Data of RNA-seq transcriptomes of liver, bone, heart, kidney and blood in klotho mice at a pre-symptomatic state and the effect of a traditional Japanese multi-herbal medicine, juzentaihoto. Data in Brief, 2022, 42, 108197.	1.0	2
125	Alternative splicing plays key roles in response to stress across different stages of fighting in the fish Betta splendens. BMC Genomics, 2021, 22, .	2.8	2
126	Ã‰lÃ©ments mobiles SINE en phylogÃ©nie. Medecine/Sciences, 2002, 18, 1276-1281.	0.2	1

#	Article	IF	Citations
127	Data of RNA-seq transcriptomes in the brain associated with aggression in males of the fish Betta splendens. Data in Brief, 2021, 38, 107448.	1.0	0
128	Title is missing!. , 2020, 16, e1008831.		0
129	Title is missing!. , 2020, 16, e1008831.		0
130	Title is missing!. , 2020, 16, e1008831.		0
131	Title is missing!. , 2020, 16, e1008831.		0
132	Title is missing!. , 2020, 16, e1008831.		0
133	Title is missing!. , 2020, 16, e1008831.		0
134	Intron retention is a stress response in sensor genes and is restored by Japanese herbal medicines: A basis for future clinical applications. Gene, 2022, 830, 146496.	2.2	0