Alessandro Achilli

List of Publications by Year
in descending order

117 papers	9,636 citations	36303 51 h-index	38395 95 g-index
123 all docs	123 docs citations	123 times ranked	8652 citing authors

#	Article	IF	Citations
1	Distinctive Paleo-Indian Migration Routes from Beringia Marked by Two Rare mtDNA Haplogroups. Current Biology, 2009, 19, 1-8.	3.9	738
2	Single, Rapid Coastal Settlement of Asia Revealed by Analysis of Complete Mitochondrial Genomes. Science, 2005, 308, 1034-1036.	12.6	710
3	The Molecular Dissection of mtDNA Haplogroup H Confirms That the Franco-Cantabrian Glacial Refuge Was a Major Source for the European Gene Pool. American Journal of Human Genetics, 2004, 75, 910-918.	6.2	397
4	Harvesting the fruit of the human mtDNA tree. Trends in Genetics, 2006, 22, 339-345.	6.7	397
5	Updating the East Asian mtDNA phylogeny: a prerequisite for the identification of pathogenic mutations. Human Molecular Genetics, 2006, 15, 2076-2086.	2.9	346
6	Clinical Expression of Leber Hereditary Optic Neuropathy Is Affected by the Mitochondrial DNAâ€“Haplogroup Background. American Journal of Human Genetics, 2007, 81, 228-233.	6.2	331
7	The mtDNA Legacy of the Levantine Early Upper Palaeolithic in Africa. Science, 2006, 314, 1767-1770.	12.6	257
8	Phylogeography of Y-Chromosome Haplogroup I Reveals Distinct Domains of Prehistoric Gene Flow in Europe. American Journal of Human Genetics, 2004, 75, 128-137.	6.2	256
9	Mitochondrial genomes of extinct aurochs survive in domestic cattle. Current Biology, 2008, 18, R157-R158.	3.9	231
10	The Phylogeny of the Four Pan-American MtDNA Haplogroups: Implications for Evolutionary and Disease Studies. PLoS ONE, 2008, 3, e1764.	2.5	227
11	The Archaeogenetics of Europe. Current Biology, 2010, 20, R174-R183.	3.9	210
12	Mitochondrial genomes from modern horses reveal the major haplogroups that underwent domestication. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2449-2454.	7.1	198
13	Mitochondrial DNA haplogroup K is associated with a lower risk of Parkinson's disease in Italians. European Journal of Human Genetics, 2005, 13, 748-752.	2.8	197
14	Saami and Berbersâ€”An Unexpected Mitochondrial DNA Link. American Journal of Human Genetics, 2005, 76, 883-886.	6.2	196
15	Rapid coastal spread of First Americans: Novel insights from South America's Southern Cone mitochondrial genomes. Genome Research, 2012, 22, 811-820.	5.5	167
16	Haplogroup Effects and Recombination of Mitochondrial DNA: Novel Clues from the Analysis of Leber Hereditary Optic Neuropathy Pedigrees. American Journal of Human Genetics, 2006, 78, 564-574.	6.2	166
17	The Multifaceted Origin of Taurine Cattle Reflected by the Mitochondrial Genome. PLoS ONE, 2009, 4, e5753.	2.5	157
18	Mitochondrial DNA Signals of Late Glacial Recolonization of Europe from Near Eastern Refugia. American Journal of Human Genetics, 2012, 90, 915-924.	6.2	150

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19	Origin and Diffusion of mtDNA Haplogroup X. American Journal of Human Genetics, 2003, 73, 1178-1190.	6.2	148
20	The initial peopling of the Americas: A growing number of founding mitochondrial genomes from Beringia. Genome Research, 2010, 20, 1174-1179.	5.5	147
21	The Matrilineal Ancestry of Ashkenazi Jewry: Portrait of a Recent Founder Event. American Journal of Human Genetics, 2006, 78, 487-497.	6.2	140
22	Mitochondrial DNA background modulates the assembly kinetics of OXPHOS complexes in a cellular model of mitochondrial disease. Human Molecular Genetics, 2008, 17, 4001-4011.	2.9	140
23	Reconciling migration models to the Americas with the variation of North American native mitogenomes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14308-14313.	7.1	122
24	Evidence for Sub-Haplogroup H5 of Mitochondrial DNA as a Risk Factor for Late Onset Alzheimer's Disease. PLoS ONE, 2010, 5, e12037.	2.5	117
25	Mitochondrial DNA Variation of Modern Tuscans Supports the Near Eastern Origin of Etruscans. American Journal of Human Genetics, 2007, 80, 759-768.	6.2	106
26	The ND1 gene of complex I is a mutational hot spot for Leber's hereditary optic neuropathy. Annals of Neurology, 2004, 56, 631-641.	5.3	102
27	Ancient individuals from the North American Northwest Coast reveal 10,000 years of regional genetic continuity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4093-4098.	7.1	100
28	Origin and Spread of Bos taurus: New Clues from Mitochondrial Genomes Belonging to Haplogroup T1. PLoS ONE, 2012, 7, e38601.	2.5	93
29	The Genomic Impact of European Colonization of the Americas. Current Biology, 2019, 29, 3974-3986.e4.	3.9	89
30	Ancient Migratory Events in the Middle East: New Clues from the Y-Chromosome Variation of Modern Iranians. PLoS ONE, 2012, 7, e41252.	2.5	86
31	The Enigmatic Origin of Bovine mtDNA Haplogroup R: Sporadic Interbreeding or an Independent Event of Bos primigenius Domestication in Italy?. PLoS ONE, 2010, 5, e15760.	2.5	84
32	A substantial prehistoric European ancestry amongst Ashkenazi maternal lineages. Nature Communications, 2013, 4, 2543.	12.8	80
33	The First Peopling of South America: New Evidence from Y-Chromosome Haplogroup Q. PLoS ONE, 2013, 8, e71390.	2.5	78
34	The Background of Mitochondrial DNA Haplogroup J Increases the Sensitivity of Leber's Hereditary Optic Neuropathy Cells to 2,5-Hexanedione Toxicity. PLoS ONE, 2009, 4, e7922.	2.5	76
35	Low â€œpenetranceâ€•of phylogenetic knowledge in mitochondrial disease studies. Biochemical and Biophysical Research Communications, 2005, 333, 122-130.	2.1	74
36	The mystery of Etruscan origins: novel clues from Bos taurus mitochondrial DNA. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1175-1179.	2.6	74

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37	Mitochondrial DNA Backgrounds Might Modulate Diabetes Complications Rather than T2DM as a Whole. PLoS ONE, 2011, 6, e21029.	2.5	74
38	Rare Primary Mitochondrial DNA Mutations and Probable Synergistic Variants in Leberâ€™s Hereditary Optic Neuropathy. PLoS ONE, 2012, 7, e42242.	2.5	73
39	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. Genome Biology, 2021, 22, 120.	8.8	69
40	The Peopling of Modern Bosnia-Herzegovina: Y-chromosome Haplogroups in the Three Main Ethnic Groups. Annals of Human Genetics, 2005, 69, 757-763.	0.8	66
41	Rare mtDNA variants in Leber hereditary optic neuropathy families with recurrence of myoclonus. Neurology, 2008, 70, 762-770.	1.1	66
42	Mitochondrial and Y-chromosome diversity of the Tharus (Nepal): a reservoir of genetic variation. BMC Evolutionary Biology, 2009, 9, 154.	3.2	63
43	The Complex and Diversified Mitochondrial Gene Pool of Berber Populations. Annals of Human Genetics, 2009, 73, 196-214.	0.8	63
44	Mitochondrial Haplogroup U5b3: A Distant Echo of the Epipaleolithic in Italy and the Legacy of the Early Sardinians. American Journal of Human Genetics, 2009, 84, 814-821.	6.2	62
45	Mitogenome Diversity in Sardinians: A Genetic Window onto an Island's Past. Molecular Biology and Evolution, 2017, 34, 1230-1239.	8.9	61
46	Mitochondrial haplogroup C4c: A rare lineage entering America through the iceâ€free corridor?. American Journal of Physical Anthropology, 2012, 147, 35-39.	2.1	60
47	The peopling of South America and the trans-Andean gene flow of the first settlers. Genome Research, 2018, 28, 767-779.	5.5	59
48	Monitoring DNA Contamination in Handled vs. Directly Excavated Ancient Human Skeletal Remains. PLoS ONE, 2013, 8, e52524.	2.5	58
49	Genealogical Relationships between Early Medieval and Modern Inhabitants of Piedmont. PLoS ONE, 2015, 10, e0116801.	2.5	58
50	Arrival of Paleo-Indians to the Southern Cone of South America: New Clues from Mitogenomes. PLoS ONE, 2012, 7, e51311.	2.5	57
51	Reconstructing ancient mitochondrial DNA links between Africa and Europe. Genome Research, 2012, 22, 821-826.	5.5	57
52	Whole mitochondrial genomes unveil the impact of domestication on goat matrilineal variability. BMC Genomics, 2015, 16, 1115.	2.8	56
53	The Worldwide Spread of the Tiger Mosquito as Revealed by Mitogenome Haplogroup Diversity. Frontiers in Genetics, 2016, 7, 208.	2.3	54
54	The Paleo-Indian Entry into South America According to Mitogenomes. Molecular Biology and Evolution, 2018, 35, 299-311.	8.9	54

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55	Population structure of modern-day Italians reveals patterns of ancient and archaic ancestries in Southern Europe. Science Advances, 2019, 5, eaaw3492.	10.3	53
56	Mitogenomes from Two Uncommon Haplogroups Mark Late Glacial/Postglacial Expansions from the Near East and Neolithic Dispersals within Europe. PLoS ONE, 2013, 8, e70492.	2.5	51
57	Italian mitochondrial DNA database: results of a collaborative exercise and proficiency testing. International Journal of Legal Medicine, 2008, 122, 199-204.	2.2	48
58	Mitochondrial DNA Haplogroups Do Not Play a Role in the Variable Phenotypic Presentation of the A3243G Mutation. American Journal of Human Genetics, 2003, 72, 1005-1012.	6.2	47
59	Phylogenetic Relationships of Three Italian Merino-Derived Sheep Breeds Evaluated through a Complete Mitogenome Analysis. PLoS ONE, 2013, 8, e73712.	2.5	47
60	Peculiar combinations of individually non-pathogenic missense mitochondrial DNA variants cause low penetrance Leberâ€™s hereditary optic neuropathy. PLoS Genetics, 2018, 14, e1007210.	3.5	47
61	Mitochondrial Haplogroup H1 in North Africa: An Early Holocene Arrival from Iberia. PLoS ONE, 2010, 5, e13378.	2.5	44
62	The characterization of goat genetic diversity: Towards a genomic approach. Small Ruminant Research, 2014, 121, 58-72.	1.2	44
63	Mitogenomes from Egyptian Cattle Breeds: New Clues on the Origin of Haplogroup Q and the Early Spread of Bos taurus from the Near East. PLoS ONE, 2015, 10, e0141170.	2.5	41
64	Mapping human dispersals into the Horn of Africa from Arabian Ice Age refugia using mitogenomes. Scientific Reports, 2016, 6, 25472.	3.3	40
65	A Novel in-Frame 18-bp Microdeletion inMT-CYBCauses a Multisystem Disorder with Prominent Exercise Intolerance. Human Mutation, 2014, 35, 954-958.	2.5	38
66	Characterization and Phylogenetic Analysis of Ancient Italian Landraces of Pear. Frontiers in Plant Science, 2017, 8, 751.	3.6	38
67	Decrypting the Mitochondrial Gene Pool of Modern Panamanians. PLoS ONE, 2012, 7, e38337.	2.5	37
68	Subtyping mtDNA haplogroup H by SNaPshot minisequencing and its application in forensic individual identification. International Journal of Legal Medicine, 2006, 120, 151-156.	2.2	36
69	Analysis of the human Y-chromosome haplogroup Q characterizes ancient population movements in Eurasia and the Americas. BMC Biology, 2019, 17, 3.	3.8	36
70	Bulgarians vs the other European populations: a mitochondrial DNA perspective. International Journal of Legal Medicine, 2012, 126, 497-503.	2.2	32
71	Small effective population size and genetic homogeneity in the Val Borbera isolate. European Journal of Human Genetics, 2013, 21, 89-94.	2.8	32
72	Human settlement history between Sunda and Sahul: a focus on East Timor (Timor-Leste) and the Pleistocenic mtDNA diversity. BMC Genomics, 2015, 16, 70.	2.8	32

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73	First Genetic Insight into Libyan Tuaregs: A Maternal Perspective. Annals of Human Genetics, 2009, 73, 438-448.	0.8	31
74	An Overview of Ten Italian Horse Breeds through Mitochondrial DNA. PLoS ONE, 2016, 11, e0153004.	2.5	30
75	Whole Mitogenomes Reveal the History of Swamp Buffalo: Initially Shaped by Glacial Periods and Eventually Modelled by Domestication. Scientific Reports, 2017, 7, 4708.	3.3	30
76	Mitochondrial DNA variants of Podolian cattle breeds testify for a dual maternal origin. PLoS ONE, 2018, 13, e0192567.	2.5	30
77	Archaeogenomic distinctiveness of the Isthmo-Colombian area. Cell, 2021, 184, 1706-1723.e24.	28.9	30
78	Uniparental Genetic Heritage of Belarusians: Encounter of Rare Middle Eastern Matrilineages with a Central European Mitochondrial DNA Pool. PLoS ONE, 2013, 8, e66499.	2.5	28
79	Ancient genomes reveal tropical bovid species in the Tibetan Plateau contributed to the prevalence of hunting game until the late Neolithic. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28150-28159.	7.1	28
80	Origin and spread of human mitochondrial DNA haplogroup U7. Scientific Reports, 2017, 7, 46044.	3.3	25
81	The 13042G->A/ND5 mutation in mtDNA is pathogenic and can be associated also with a prevalent ocular phenotype. Journal of Medical Genetics, 2005, 43, e38-e38.	3.2	24
82	Haplogroup J mitogenomes are the most sensitive to the pesticide rotenone: Relevance for human diseases. Neurobiology of Disease, 2018, 114, 129-139.	4.4	22
83	Multiplex mtDNA coding region SNP assays for molecular dissection of haplogroups U/K and J/T. Forensic Science International: Genetics, 2009, 4, 21-25.	3.1	20
84	Exploring the Y Chromosomal Ancestry of Modern Panamanians. PLoS ONE, 2015, 10, e0144223.	2.5	20
85	The exceptionally high rate of spontaneous mutations in the polymerase delta proofreading exonuclease-deficient Saccharomyces cerevisiae strain starved for adenine. BMC Genetics, 2004, 5, 34.	2.7	19
86	Genetic Continuity in the Franco-Cantabrian Region: New Clues from Autochthonous Mitogenomes. PLoS ONE, 2012, 7, e32851.	2.5	19
87	Reconstructing the genetic history of Italians: new insights from a male (Y-chromosome) perspective. Annals of Human Biology, 2018, 45, 44-56.	1.0	19
88	Stationary-phase mutations in proofreading exonuclease-deficient strains of the yeast Saccharomyces cerevisiae. Molecular Genetics and Genomics, 2001, 265, 362-366.	2.1	18
89	Genomic analyses reveal distinct genetic architectures and selective pressures in buffaloes. GigaScience, 2020, 9, .	6.4	18
90	Cybrid studies establish the causal link between the mtDNA m.3890G>A/MT-ND1 mutation and optic atrophy with bilateral brainstem lesions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 445-452.	3.8	17

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91	Tracing the biological origin of animal glues used in paintings through mitochondrial DNA analysis. Analytical and Bioanalytical Chemistry, 2011, 399, 2987-2995.	3.7	12
92	Ancient human genomesâ€”keys to understanding our past. Science, 2018, 360, 964-965.	12.6	12
93	Mitochondrial genomes from modern and ancient Turano-Mongolian cattle reveal an ancient diversity of taurine maternal lineages in East Asia. Heredity, 2021, 126, 1000-1008.	2.6	11
94	The Mitochondrial DNA Landscape of Modern Mexico. Genes, 2021, 12, 1453.	2.4	11
95	Resolving a 150-year-old paternity case in Mormon history using DTC autosomal DNA testing of distant relatives. Forensic Science International: Genetics, 2019, 42, 1-7.	3.1	9
96	Cattle mitogenome variation reveals a post-glacial expansion of haplogroup P and an early incorporation into northeast Asian domestic herds. Scientific Reports, 2020, 10, 20842.	3.3	9
97	The mitogenome portrait of Umbria in Central Italy as depicted by contemporary inhabitants and pre-Roman remains. Scientific Reports, 2020, 10, 10700.	3.3	9
98	Survey of uniparental genetic markers in the Maltese cattle breed reveals a significant founder effect but does not indicate local domestication. Animal Genetics, 2016, 47, 267-269.	1.7	8
99	Biomolecular insights into North African-related ancestry, mobility and diet in eleventh-century Al-Andalus. Scientific Reports, 2021, 11, 18121.	3.3	8
100	Human mtDNA site-specific variability values can act as haplogroup markers. Human Mutation, 2006, 27, 965-974.	2.5	7
101	A Genetic Window on Sardinian Native Horse Breeds through Uniparental Molecular Systems. Animals, 2020, 10, 1544.	2.3	7
102	Evaluating the Impact of Sex-Biased Genetic Admixture in the Americas through the Analysis of Haplotype Data. Genes, 2021, 12, 1580.	2.4	6
103	Uncovering the sources of DNA found on the Turin Shroud. Scientific Reports, 2015, 5, 14484.	3.3	5
104	Y-chromosome and Surname Analyses for Reconstructing Past Population Structures: The Sardinian Population as a Test Case. International Journal of Molecular Sciences, 2019, 20, 5763.	4.1	5
105	Overview of the Americasâ€™ First Peopling from a Patrilineal Perspective: New Evidence from the Southern Continent. Genes, 2022, 13, 220.	2.4	5
106	The Mountain Meadows Massacre and â€œpoisoned springsâ€: scientific testing of the more recent, anthrax theory. International Journal of Legal Medicine, 2013, 127, 77-83.	2.2	4
107	Haplogroups and the history of human evolution through mtDNA. , 2020, , 111-129.		4
108	ADAPTIVE MUTAGENESIS IN THE YEAST SACCHAROMYCES CEREVISIAE. Ecological Genetics, 2006, 4, 20-28.	0.5	4

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109	Mitochondrial DNA Footprints from Western Eurasia in Modern Mongolia. Frontiers in Genetics, 2021, 12, 819337.	2.3	4
110	The Mitogenome Relationships and Phylogeography of Barn Swallows (Hirundo rustica). Molecular Biology and Evolution, 2022, 39, .	8.9	4
111	Colony density influences invasive and filamentous growth inSaccharomyces cerevisiae. Folia Microbiologica, 2007, 52, 35-38.	2.3	3
112	High rate of starvation-associated mutagenesis in Ungâ˜ yeast caused by the overproduction of human activation-induced deaminase. Current Genetics, 2007, 52, 239-245.	1.7	3
113	Weaving Mitochondrial DNA and Y-Chromosome Variation in the Panamanian Genetic Canvas. Genes, 2021, 12, 1921.	2.4	3
114	Helenaâ€™s Many Daughters: More Mitogenome Diversity behind the Most Common West Eurasian mtDNA Control Region Haplotype in an Extended Italian Population Sample. International Journal of Molecular Sciences, 2022, 23, 6725.	4.1	3
115	DNA analysis of dust particles sampled from the Turin Shroud. MATEC Web of Conferences, 2015, 36, 03001.	0.2	2
116	The role of DNA polymerase alpha in the control of mutagenesis in Saccharomyces cerevisiae cells starved for nutrients. Ecological Genetics, 2011, 9, 53-61.	0.5	0
117	Assessing temporal and geographic contacts across the Adriatic Sea through the analysis of genome-wide data from Southern Italy. Genomics, 2022, 114, 110405.	2.9	0