Alessandro Achilli

List of Publications by Year
in descending order

117 papers	9,636 citations	41627 51 h-index	43601 95 g-index
123 all docs	123 docs citations	123 times ranked	9554 citing authors

#	Article	IF	Citations
1	Overview of the Americasâ€™ First Peopling from a Patrilineal Perspective: New Evidence from the Southern Continent. Genes, 2022, 13, 220.	1.0	5
2	The Mitogenome Relationships and Phylogeography of Barn Swallows (<i>Hirundo rustica</i>). Molecular Biology and Evolution, 2022, 39, .	3.5	4
3	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.	1.8	3
4	Assessing temporal and geographic contacts across the Adriatic Sea through the analysis of genome-wide data from Southern Italy. Genomics, 2022, 114, 110405.	1.3	0
5	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.	1.2	11
6	Archaeogenomic distinctiveness of the Isthmo-Colombian area. Cell, 2021, 184, 1706-1723.e24.	13.5	30
7	Complete vertebrate mitogenomes reveal widespread repeats and gene duplications. Genome Biology, 2021, 22, 120.	3.8	69
8	The Mitochondrial DNA Landscape of Modern Mexico. Genes, 2021, 12, 1453.	1.0	11
9	Biomolecular insights into North African-related ancestry, mobility and diet in eleventh-century Al-Andalus. Scientific Reports, 2021, 11, 18121.	1.6	8
10	Evaluating the Impact of Sex-Biased Genetic Admixture in the Americas through the Analysis of Haplotype Data. Genes, 2021, 12, 1580.	1.0	6
11	Weaving Mitochondrial DNA and Y-Chromosome Variation in the Panamanian Genetic Canvas. Genes, 2021, 12, 1921.	1.0	3
12	Mitochondrial DNA Footprints from Western Eurasia in Modern Mongolia. Frontiers in Genetics, 2021, 12, 819337.	1.1	4
13	A Genetic Window on Sardinian Native Horse Breeds through Uniparental Molecular Systems. Animals, 2020, 10, 1544.	1.0	7
14	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.	3.3	28
15	Haplogroups and the history of human evolution through mtDNA. , 2020, , 111-129.		4
16	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.	1.6	9
17	The mitogenome portrait of Umbria in Central Italy as depicted by contemporary inhabitants and pre-Roman remains. Scientific Reports, 2020, 10, 10700.	1.6	9
18	Genomic analyses reveal distinct genetic architectures and selective pressures in buffaloes. GigaScience, 2020, 9, .	3.3	18

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19	Population structure of modern-day Italians reveals patterns of ancient and archaic ancestries in Southern Europe. Science Advances, 2019, 5, eaaw3492.	4.7	53
20	Analysis of the human Y-chromosome haplogroup Q characterizes ancient population movements in Eurasia and the Americas. BMC Biology, 2019, 17, 3.	1.7	36
21	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.	1.6	9
22	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.	1.8	5
23	The Genomic Impact of European Colonization of the Americas. Current Biology, 2019, 29, 3974-3986.e4.	1.8	89
24	Haplogroup J mitogenomes are the most sensitive to the pesticide rotenone: Relevance for human diseases. Neurobiology of Disease, 2018, 114, 129-139.	2.1	22
25	The Paleo-Indian Entry into South America According to Mitogenomes. Molecular Biology and Evolution, 2018, 35, 299-311.	3.5	54
26	Reconstructing the genetic history of Italians: new insights from a male (Y-chromosome) perspective. Annals of Human Biology, 2018, 45, 44-56.	0.4	19
27	Ancient human genomesâ€"keys to understanding our past. Science, 2018, 360, 964-965.	6.0	12
28	The peopling of South America and the trans-Andean gene flow of the first settlers. Genome Research, 2018, 28, 767-779.	2.4	59
29	Mitochondrial DNA variants of Podolian cattle breeds testify for a dual maternal origin. PLoS ONE, 2018, 13, e0192567.	1.1	30
30	Peculiar combinations of individually non-pathogenic missense mitochondrial DNA variants cause low penetrance Leberâ€™s hereditary optic neuropathy. PLoS Genetics, 2018, 14, e1007210.	1.5	47
31	Mitogenome Diversity in Sardinians: A Genetic Window onto an Island's Past. Molecular Biology and Evolution, 2017, 34, 1230-1239.	3.5	61
32	Origin and spread of human mitochondrial DNA haplogroup U7. Scientific Reports, 2017, 7, 46044.	1.6	25
33	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.	3.3	100
34	Whole Mitogenomes Reveal the History of Swamp Buffalo: Initially Shaped by Glacial Periods and Eventually Modelled by Domestication. Scientific Reports, 2017, 7, 4708.	1.6	30
35	Characterization and Phylogenetic Analysis of Ancient Italian Landraces of Pear. Frontiers in Plant Science, 2017, 8, 751.	1.7	38
36	The Worldwide Spread of the Tiger Mosquito as Revealed by Mitogenome Haplogroup Diversity. Frontiers in Genetics, 2016, 7, 208.	1.1	54

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37	An Overview of Ten Italian Horse Breeds through Mitochondrial DNA. PLoS ONE, 2016, 11, e0153004.	1.1	30
38	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.	0.6	8
39	Mapping human dispersals into the Horn of Africa from Arabian Ice Age refugia using mitogenomes. Scientific Reports, 2016, 6, 25472.	1.6	40
40	Uncovering the sources of DNA found on the Turin Shroud. Scientific Reports, 2015, 5, 14484.	1.6	5
41	DNA analysis of dust particles sampled from the Turin Shroud. MATEC Web of Conferences, 2015, 36, 03001.	0.1	2
42	Whole mitochondrial genomes unveil the impact of domestication on goat matrilineal variability. BMC Genomics, 2015, 16, 1115.	1.2	56
43	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.	1.1	41
44	Human settlement history between Sunda and Sahul: a focus on East Timor (Timor-Leste) and the Pleistocenic mtDNA diversity. BMC Genomics, 2015, 16, 70.	1.2	32
45	Genealogical Relationships between Early Medieval and Modern Inhabitants of Piedmont. PLoS ONE, 2015, 10, e0116801.	1.1	58
46	Exploring the Y Chromosomal Ancestry of Modern Panamanians. PLoS ONE, 2015, 10, e0144223.	1.1	20
47	The characterization of goat genetic diversity: Towards a genomic approach. Small Ruminant Research, 2014, 121, 58-72.	0.6	44
48	A Novel in-Frame 18-bp Microdeletion in<i>MT-CYB</i>Causes a Multisystem Disorder with Prominent Exercise Intolerance. Human Mutation, 2014, 35, 954-958.	1.1	38
49	Small effective population size and genetic homogeneity in the Val Borbera isolate. European Journal of Human Genetics, 2013, 21, 89-94.	1.4	32
50	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.	1.8	17
51	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.	1.2	4
52	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.	3.3	122
53	A substantial prehistoric European ancestry amongst Ashkenazi maternal lineages. Nature Communications, 2013, 4, 2543.	5.8	80
54	Monitoring DNA Contamination in Handled vs. Directly Excavated Ancient Human Skeletal Remains. PLoS ONE, 2013, 8, e52524.	1.1	58

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55	Uniparental Genetic Heritage of Belarusians: Encounter of Rare Middle Eastern Matrilineages with a Central European Mitochondrial DNA Pool. PLoS ONE, 2013, 8, e66499.	1.1	28
56	Phylogenetic Relationships of Three Italian Merino-Derived Sheep Breeds Evaluated through a Complete Mitogenome Analysis. PLoS ONE, 2013, 8, e73712.	1.1	47
57	Mitogenomes from Two Uncommon Haplogroups Mark Late Glacial/Postglacial Expansions from the Near East and Neolithic Dispersals within Europe. PLoS ONE, 2013, 8, e70492.	1.1	51
58	The First Peopling of South America: New Evidence from Y-Chromosome Haplogroup Q. PLoS ONE, 2013, 8, e71390.	1.1	78
59	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.	3.3	198
60	Genetic Continuity in the Franco-Cantabrian Region: New Clues from Autochthonous Mitogenomes. PLoS ONE, 2012, 7, e32851.	1.1	19
61	Ancient Migratory Events in the Middle East: New Clues from the Y-Chromosome Variation of Modern Iranians. PLoS ONE, 2012, 7, e41252.	1.1	86
62	Rare Primary Mitochondrial DNA Mutations and Probable Synergistic Variants in Leberâ€™s Hereditary Optic Neuropathy. PLoS ONE, 2012, 7, e42242.	1.1	73
63	Arrival of Paleo-Indians to the Southern Cone of South America: New Clues from Mitogenomes. PLoS ONE, 2012, 7, e51311.	1.1	57
64	Bulgarians vs the other European populations: a mitochondrial DNA perspective. International Journal of Legal Medicine, 2012, 126, 497-503.	1.2	32
65	Mitochondrial DNA Signals of Late Glacial Recolonization of Europe from Near Eastern Refugia. American Journal of Human Genetics, 2012, 90, 915-924.	2.6	150
66	Reconstructing ancient mitochondrial DNA links between Africa and Europe. Genome Research, 2012, 22, 821-826.	2.4	57
67	Rapid coastal spread of First Americans: Novel insights from South America's Southern Cone mitochondrial genomes. Genome Research, 2012, 22, 811-820.	2.4	167
68	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
69	Decrypting the Mitochondrial Gene Pool of Modern Panamanians. PLoS ONE, 2012, 7, e38337.	1.1	37
70	Origin and Spread of Bos taurus: New Clues from Mitochondrial Genomes Belonging to Haplogroup T1. PLoS ONE, 2012, 7, e38601.	1.1	93
71	Mitochondrial DNA Backgrounds Might Modulate Diabetes Complications Rather than T2DM as a Whole. PLoS ONE, 2011, 6, e21029.	1.1	74
72	Tracing the biological origin of animal glues used in paintings through mitochondrial DNA analysis. Analytical and Bioanalytical Chemistry, 2011, 399, 2987-2995.	1.9	12

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73	The role of DNA polymerase alpha in the control of mutagenesis in Saccharomyces cerevisiae cells starved for nutrients. Ecological Genetics, 2011, 9, 53-61.	0.1	0
74	The initial peopling of the Americas: A growing number of founding mitochondrial genomes from Beringia. Genome Research, 2010, 20, 1174-1179.	2.4	147
75	The Archaeogenetics of Europe. Current Biology, 2010, 20, R174-R183.	1.8	210
76	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.	1.1	84
77	Mitochondrial Haplogroup H1 in North Africa: An Early Holocene Arrival from Iberia. PLoS ONE, 2010, 5, e13378.	1.1	44
78	Evidence for Sub-Haplogroup H5 of Mitochondrial DNA as a Risk Factor for Late Onset Alzheimer's Disease. PLoS ONE, 2010, 5, e12037.	1.1	117
79	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.	1.1	76
80	Mitochondrial and Y-chromosome diversity of the Tharus (Nepal): a reservoir of genetic variation. BMC Evolutionary Biology, 2009, 9, 154.	3.2	63
81	The Complex and Diversified Mitochondrial Gene Pool of Berber Populations. Annals of Human Genetics, 2009, 73, 196-214.	0.3	63
82	First Genetic Insight into Libyan Tuaregs: A Maternal Perspective. Annals of Human Genetics, 2009, 73, 438-448.	0.3	31
83	Distinctive Paleo-Indian Migration Routes from Beringia Marked by Two Rare mtDNA Haplogroups. Current Biology, 2009, 19, 1-8.	1.8	738
84	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.	2.6	62
85	Multiplex mtDNA coding region SNP assays for molecular dissection of haplogroups U/K and J/T. Forensic Science International: Genetics, 2009, 4, 21-25.	1.6	20
86	The Multifaceted Origin of Taurine Cattle Reflected by the Mitochondrial Genome. PLoS ONE, 2009, 4, e5753.	1.1	157
87	Italian mitochondrial DNA database: results of a collaborative exercise and proficiency testing. International Journal of Legal Medicine, 2008, 122, 199-204.	1.2	48
88	Mitochondrial genomes of extinct aurochs survive in domestic cattle. Current Biology, 2008, 18, R157-R158.	1.8	231
89	Rare mtDNA variants in Leber hereditary optic neuropathy families with recurrence of myoclonus. Neurology, 2008, 70, 762-770.	1.5	66
90	Mitochondrial DNA background modulates the assembly kinetics of OXPHOS complexes in a cellular model of mitochondrial disease. Human Molecular Genetics, 2008, 17, 4001-4011.	1.4	140

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91	The Phylogeny of the Four Pan-American MtDNA Haplogroups: Implications for Evolutionary and Disease Studies. PLoS ONE, 2008, 3, e1764.	1.1	227
92	The mystery of Etruscan origins: novel clues from Bos taurus mitochondrial DNA. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1175-1179.	1.2	74
93	Mitochondrial DNA Variation of Modern Tuscans Supports the Near Eastern Origin of Etruscans. American Journal of Human Genetics, 2007, 80, 759-768.	2.6	106
94	Clinical Expression of Leber Hereditary Optic Neuropathy Is Affected by the Mitochondrial DNAâ€"Haplogroup Background. American Journal of Human Genetics, 2007, 81, 228-233.	2.6	331
95	Colony density influences invasive and filamentous growth inSaccharomyces cerevisiae. Folia Microbiologica, 2007, 52, 35-38.	1.1	3
96	High rate of starvation-associated mutagenesis in Ungâˆ' yeast caused by the overproduction of human activation-induced deaminase. Current Genetics, 2007, 52, 239-245.	0.8	3
97	The Matrilineal Ancestry of Ashkenazi Jewry: Portrait of a Recent Founder Event. American Journal of Human Genetics, 2006, 78, 487-497.	2.6	140
98	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.	2.6	166
99	The mtDNA Legacy of the Levantine Early Upper Palaeolithic in Africa. Science, 2006, 314, 1767-1770.	6.0	257
100	Subtyping mtDNA haplogroup H by SNaPshot minisequencing and its application in forensic individual identification. International Journal of Legal Medicine, 2006, 120, 151-156.	1.2	36
101	Harvesting the fruit of the human mtDNA tree. Trends in Genetics, 2006, 22, 339-345.	2.9	397
102	Human mtDNA site-specific variability values can act as haplogroup markers. Human Mutation, 2006, 27, 965-974.	1.1	7
103	Updating the East Asian mtDNA phylogeny: a prerequisite for the identification of pathogenic mutations. Human Molecular Genetics, 2006, 15, 2076-2086.	1.4	346
104	ADAPTIVE MUTAGENESIS IN THE YEAST SACCHAROMYCES CEREVISIAE. Ecological Genetics, 2006, 4, 20-28.	0.1	4
105	Single, Rapid Coastal Settlement of Asia Revealed by Analysis of Complete Mitochondrial Genomes. Science, 2005, 308, 1034-1036.	6.0	710
106	The Peopling of Modern Bosnia-Herzegovina: Y-chromosome Haplogroups in the Three Main Ethnic Groups. Annals of Human Genetics, 2005, 69, 757-763.	0.3	66
107	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.	1.4	197
108	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.	1.5	24

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109	Saami and Berbersâ€"An Unexpected Mitochondrial DNA Link. American Journal of Human Genetics, 2005, 76, 883-886.	2.6	196
110	Low â€œpenetranceâ€• of phylogenetic knowledge in mitochondrial disease studies. Biochemical and Biophysical Research Communications, 2005, 333, 122-130.	1.0	74
111	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
112	The ND1 gene of complex I is a mutational hot spot for Leber's hereditary optic neuropathy. Annals of Neurology, 2004, 56, 631-641.	2.8	102
113	Phylogeography of Y-Chromosome Haplogroup I Reveals Distinct Domains of Prehistoric Gene Flow in Europe. American Journal of Human Genetics, 2004, 75, 128-137.	2.6	256
114	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.	2.6	397
115	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.	2.6	47
116	Origin and Diffusion of mtDNA Haplogroup X. American Journal of Human Genetics, 2003, 73, 1178-1190.	2.6	148
117	Stationary-phase mutations in proofreading exonuclease-deficient strains of the yeast Saccharomyces cerevisiae. Molecular Genetics and Genomics, 2001, 265, 362-366.	1.0	18