

Vertebrate Genome Project 100&Change Citations

1. IUCN (2016) IUCN Red List includes 7,978 critically endangered, endangered, and vulnerable vertebrates out of 67,248 catalogued vertebrate species. Currently 1,619 vertebrates are listed as critically endangered. (Date of Download September 28, 2016. http://cmsdocs.s3.amazonaws.com/summarystats/2016-2_Summary_Stats_Page_Documents/2016_2_RL_Stats_Table_1.pdf).
2. Painter LE, Beschta RL, & Larsen EJR, William J. (2015) Recovering aspen follow changing elk dynamics in Yellowstone: evidence of a trophic cascade? *Ecology* 96:252-263.
3. Yellowstone wolf reintroduction: <http://www.yellowstonepark.com/wolf-reintroduction-changes-ecosystem/>.
4. Jarvis ED (2016) Perspectives from the Avian Phylogenomics Project: Questions that Can Be Answered with Sequencing All Genomes of a Vertebrate Class. *Annual Review of Animal Biosciences, Vol 4* 4:45-59.
5. Bickhart DM, *et al.* (2016) Single-molecule sequencing and conformational capture enable de novo mammalian reference genomes. *bioRxIV beta*.
6. Berlin K, *et al.* (2015) Assembling large genomes with single-molecule sequencing and locality-sensitive hashing. *Nature Biotechnology* 33:623-630.
7. Gordon D, *et al.* (2016) Long-read sequence assembly of the gorilla genome. *Science* 352(6281):aae0344.
8. NCBI Genome Home Page: <https://www.ncbi.nlm.nih.gov/genome/>.
9. ENSEMBL Genome Home Page: <http://useast.ensembl.org/index.html>.
10. UCSC Genome Browser: <https://genome.ucsc.edu>.
11. Genome 10K Community of Scientists (2009) Genome 10K: A proposal to obtain whole-genome sequence for 10,000 vertebrate species. *J Hered* 100(6):659-674.
12. Koepfli K-P, *et al.* (2015) The Genome 10K Project: A Way Forward. *Annual Review of Animal Biosciences, Vol 3*, Vol 3, pp 57-111.
13. Genome 10K Website: <http://www.genome10k.org/>.
14. Zhang G, *et al.* (2015) Genomics: Bird sequencing project takes off. *Nature* 522(7554):34.
15. B10K website: <https://www.bioinfodata.org/b10k/>.
16. Lander ES, *et al.* (2001) Initial sequencing and analysis of the human genome. *Nature* 409(6822):860-921.
17. Weinstein JN, *et al.* (2013) The Cancer Genome Atlas Pan-Cancer analysis project. *Nat Genet* 45(10):1113-1120.
18. Cancer Genome Atlas Website: <http://cancergenome.nih.gov>.
19. Szatmari P, *et al.* (2007) Mapping autism risk loci using genetic linkage and chromosomal rearrangements. *Nat Genet* 39(3):319-328.
20. Autism Speaks Genome Project Website: <https://www.autismspeaks.org/science/initiatives/autism-genome-project>.
21. Zhang GJ, Jarvis ED, & Gilbert MTP (2014) A flock of Genomes. *Science* 346(6215):1308-1309.
22. Avian Phylogenomics Project Website: <http://avian.genomics.cn/en/>.
23. Li S, *et al.* (2014) Genomic signatures of near-extinction and rebirth of the crested ibis and other endangered bird species. *Genome Biol* 15(12):557.

24. Pennisi E (2014) Genomics. Bird genomes give new perches to old friends. *Science* 346(6215):1275-1276.
25. Jarvis ED, *et al.* (2014) Whole-genome analyses resolve early branches in the tree of life of modern birds. *Science* 346(6215):1320-1331.
26. Zhang GJ, *et al.* (2014) Comparative genomics reveals insights into avian genome evolution and adaptation. *Science* 346(6215):1311-1320.
27. Mirarab S, Bayzid MS, Boussau B, & Warnow T (2014) Statistical binning enables an accurate coalescent-based estimation of the avian tree. *Science* 346(6215):1250463.
28. Stamatakis A & Aberer AJ (2013) Novel Parallelization Schemes for Large-Scale Likelihood-based Phylogenetic Inference. *IEEE 27th International Symposium on Parallel and Distributed Processing*:1195-1204.
29. Pfenning AR, *et al.* (2014) Convergent transcriptional specializations in the brains of humans and song-learning birds. *Science* 346(6215):1256846.
30. Whitney O, *et al.* (2014) Core and region-enriched networks of behaviorally regulated genes and the singing genome. *Science* 346(6215):1256780.
31. Ceballos G, *et al.* (2015) Accelerated modern human-induced species losses: Entering the sixth mass extinction. *Sci Adv* 1(5):e1400253.
32. Barnosky AD, *et al.* (2011) Has the Earth's sixth mass extinction already arrived? *Nature* 471(7336):51-57.
33. Shapiro B (2015) *How to Clone a Mammoth: The Science of De-Extinction* (Princeton University Press, Princeton, New Jersey).
34. Wales N, *et al.* (2015) New insights on single-stranded versus double-stranded DNA library preparation for ancient DNA. *Biotechniques* 59(6):368-371.
35. Orlando L, Gilbert MT, & Willerslev E (2015) Reconstructing ancient genomes and epigenomes. *Nat Rev Genet* 16(7):395-408.
36. Revive and Restore Website: <http://reviverestore.org>.
37. San Diego Frozen Zoo Website: <http://institute.sandiegozoo.org/resources/frozen-zoo@>.
38. Smithsonian Museum Frozen Tissue Collection Website: http://vertebrates.si.edu/mammals/mammals_tissues.html.
39. Frozen Ark Website: <http://frozenark.org>.
40. Encyclopedia of Life MacArthur Website Announcement: <https://www.macfound.org/videos/236/>.
41. Thomas GH (2008) Phylogenetic distributions of British birds of conservation concern. *Proc Biol Sci* 275(1647):2077-2083.
42. Vij S, *et al.* (2016) Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. *PLoS Genet* 12(4):e1005954.
43. Kakapo Genetic Rescue Project Website: <https://www.geneticrescue.science/projects/genome-sequencing/kakapo>.
44. Ryder O, *et al.* (2016) Whole Genome Sequencing of California Condors is Now Utilized for Guiding Genetic Management. *Plant & Animal Genome Conference XXIV*.
45. Bradnam KR, *et al.* (2013) Assemblathon 2: evaluating de novo methods of genome assembly in three vertebrate species. *Gigascience* 2(1):10.
46. Tim Low News Blog: <http://www.timlow.com/blog/entry/bird-research-of-the-century>.
47. Joseph L & Buchanan KL (2015) A quantum leap in avian biology. *Emu* 115:1-5.
48. Kraus RHS & Wink M (2015) Avian genomics: fledging into the wild! *Journal of Ornithology* 156(4):851-865.

49. Kavli Foundation Blog: <http://kavliblog.org/2014/12/30/biggest-science-stories-2014-humans-similar-to-songbirds/>.
50. Romanov MN, *et al.* (2014) Reconstruction of gross avian genome structure, organization and evolution suggests that the chicken lineage most closely resembles the dinosaur avian ancestor. *BMC Genomics* 15(1):1060.