

Michael Bunce

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2539302/publications.pdf>

Version: 2024-02-01

109
papers

9,304
citations

70961

41
h-index

46693

89
g-index

116
all docs

116
docs citations

116
times ranked

11148
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Coral monitoring in northwest Australia with environmental DNA metabarcoding using a curated reference database for optimized detection. <i>Environmental DNA</i> , 2022, 4, 63-76. | 3.1 | 25 |
| 2 | Strategies for sample labelling and library preparation in DNA metabarcoding studies. <i>Molecular Ecology Resources</i> , 2022, 22, 1231-1246. | 2.2 | 40 |
| 3 | Environmental DNA reveals a multi-taxa biogeographic break across the Arabian Sea and Sea of Oman. <i>Environmental DNA</i> , 2022, 4, 206-221. | 3.1 | 17 |
| 4 | Evaluating restoration trajectories using DNA metabarcoding of ground-dwelling and airborne invertebrates and associated plant communities. <i>Molecular Ecology</i> , 2022, 31, 2172-2188. | 2.0 | 5 |
| 5 | Phylogeography of recent <i>Plesiastrea</i> (Scleractinia: Plesiastreidae) based on an integrated taxonomic approach. <i>Molecular Phylogenetics and Evolution</i> , 2022, 172, 107469. | 1.2 | 6 |
| 6 | Ancient proteins resolve controversy over the identity of <i>Genyornis</i> eggshell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 14 |
| 7 | Complementary molecular and visual sampling of fish on oil and gas platforms provides superior biodiversity characterisation. <i>Marine Environmental Research</i> , 2022, 179, 105692. | 1.1 | 5 |
| 8 | Unlocking the phylogenetic diversity, primary habitats, and abundances of free-living Symbiodiniaceae on a coral reef. <i>Molecular Ecology</i> , 2021, 30, 343-360. | 2.0 | 33 |
| 9 | Comprehensive evidence for subspecies designations in Cook's Petrel <i>Pterodroma cookii</i> with implications for conservation management. <i>Bird Conservation International</i> , 2021, 31, 1-13. | 0.7 | 2 |
| 10 | Ancient DNA preserved in small bone fragments from the P.W. Lund collection. <i>Ecology and Evolution</i> , 2021, 11, 2064-2071. | 0.8 | 9 |
| 11 | eDNAFlow, an automated, reproducible and scalable workflow for analysis of environmental DNA sequences exploiting Nextflow and Singularity. <i>Molecular Ecology Resources</i> , 2021, 21, 1697-1704. | 2.2 | 39 |
| 12 | Ancient plant DNA reveals High Arctic greening during the Last Interglacial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 29 |
| 13 | Ancient DNA from bulk bone reveals past genetic diversity of vertebrate fauna on Kangaroo Island, Australia. <i>Quaternary Science Reviews</i> , 2021, 262, 106962. | 1.4 | 6 |
| 14 | Towards reproducible metabarcoding data: Lessons from an international cross-laboratory experiment. <i>Molecular Ecology Resources</i> , 2021, , . | 2.2 | 25 |
| 15 | Development of a 16S metabarcoding assay for the environmental DNA (eDNA) detection of aquatic reptiles across northern Australia. <i>Marine and Freshwater Research</i> , 2021, , . | 0.7 | 11 |
| 16 | Large-scale eDNA metabarcoding survey reveals marine biogeographic break and transitions over tropical northwestern Australia. <i>Diversity and Distributions</i> , 2021, 27, 1942-1957. | 1.9 | 45 |
| 17 | Making environmental DNA (eDNA) biodiversity records globally accessible. <i>Environmental DNA</i> , 2021, 3, 699-705. | 3.1 | 38 |
| 18 | Climate-assisted persistence of tropical fish vagrants in temperate marine ecosystems. <i>Communications Biology</i> , 2021, 4, 1231. | 2.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Water stratification in the marine biome restricts vertical environmental DNA (eDNA) signal dispersal. <i>Environmental DNA</i> , 2020, 2, 99-111. | 3.1 | 74 |
| 20 | Combined Liquid Chromatography-mass Spectrometry and Next-generation DNA Sequencing Detection of Adulterants and Contaminants in Analgesic and Anti-inflammatory Herbal Medicines. <i>Pharmaceutical Medicine</i> , 2020, 34, 49-61. | 1.0 | 8 |
| 21 | Development of a multi-assay approach for monitoring coral diversity using eDNA metabarcoding. <i>Coral Reefs</i> , 2020, 39, 159-171. | 0.9 | 42 |
| 22 | eDNA metabarcoding survey reveals fine-scale coral reef community variation across a remote, tropical island ecosystem. <i>Molecular Ecology</i> , 2020, 29, 1069-1086. | 2.0 | 125 |
| 23 | Crop-Zone Weed Mycobiomes of the South-Western Australian Grain Belt. <i>Frontiers in Microbiology</i> , 2020, 11, 581592. | 1.5 | 4 |
| 24 | Dense sampling of bird diversity increases power of comparative genomics. <i>Nature</i> , 2020, 587, 252-257. | 13.7 | 251 |
| 25 | Under the karst: detecting hidden subterranean assemblages using eDNA metabarcoding in the caves of Christmas Island, Australia. <i>Scientific Reports</i> , 2020, 10, 21479. | 1.6 | 12 |
| 26 | Detection of the rare Australian endemic blind cave eel (<i>Ophisternon candidum</i>) with environmental DNA: implications for threatened species management in subterranean environments. <i>Hydrobiologia</i> , 2020, 847, 3201-3211. | 1.0 | 16 |
| 27 | Rapid range shifts and megafaunal extinctions associated with late Pleistocene climate change. <i>Nature Communications</i> , 2020, 11, 2770. | 5.8 | 46 |
| 28 | Environmental DNA can act as a biodiversity barometer of anthropogenic pressures in coastal ecosystems. <i>Scientific Reports</i> , 2020, 10, 8365. | 1.6 | 66 |
| 29 | Development and evaluation of fish eDNA metabarcoding assays facilitate the detection of cryptic seahorse taxa (family: Syngnathidae). <i>Environmental DNA</i> , 2020, 2, 614-626. | 3.1 | 48 |
| 30 | Partitioning of diet between species and life history stages of sympatric and cryptic snappers (<i>Lutjanidae</i>) based on DNA metabarcoding. <i>Scientific Reports</i> , 2020, 10, 4319. | 1.6 | 20 |
| 31 | Maximizing fish detection with eDNA metabarcoding. <i>Environmental DNA</i> , 2020, 2, 493-504. | 3.1 | 99 |
| 32 | Testing multiple substrates for terrestrial biodiversity monitoring using environmental DNA metabarcoding. <i>Molecular Ecology Resources</i> , 2020, 20, 732-745. | 2.2 | 60 |
| 33 | Early Pastoral Economies and Herding Transitions in Eastern Eurasia. <i>Scientific Reports</i> , 2020, 10, 1001. | 1.6 | 29 |
| 34 | Combined use of eDNA metabarcoding and video surveillance for the assessment of fish biodiversity. <i>Conservation Biology</i> , 2019, 33, 196-205. | 2.4 | 178 |
| 35 | Protein and carbohydrate intakes alter gut microbial community structure in crickets: a Geometric Framework approach. <i>FEMS Microbiology Ecology</i> , 2019, 95, . | 1.3 | 2 |
| 36 | Arctic shrub colonization lagged peak postglacial warmth: Molecular evidence in lake sediment from Arctic Canada. <i>Global Change Biology</i> , 2019, 25, 4244-4256. | 4.2 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Toxicological screening and DNA sequencing detects contamination and adulteration in regulated herbal medicines and supplements for diet, weight loss and cardiovascular health. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 176, 112834. | 1.4 | 22 |
| 38 | Micro Methods for Megafauna: Novel Approaches to Late Quaternary Extinctions and Their Contributions to Faunal Conservation in the Anthropocene. <i>BioScience</i> , 2019, 69, 877-887. | 2.2 | 11 |
| 39 | Species-level biodiversity assessment using marine environmental DNA metabarcoding requires protocol optimization and standardization. <i>Ecology and Evolution</i> , 2019, 9, 1323-1335. | 0.8 | 62 |
| 40 | Evidence for fungi and gold redox interaction under Earth surface conditions. <i>Nature Communications</i> , 2019, 10, 2290. | 5.8 | 25 |
| 41 | Exploring the Application of the DSA-TOF, a Direct, High-resolution Time-of-Flight Mass Spectrometry Technique for the Screening of Potential Adulterated and Contaminated Herbal Medicines. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1713-1719. | 1.2 | 8 |
| 42 | Invertebrate DNA metabarcoding reveals changes in communities across mine site restoration chronosequences. <i>Restoration Ecology</i> , 2019, 27, 1177-1186. | 1.4 | 19 |
| 43 | Beyond Biodiversity: Can Environmental DNA (eDNA) Cut It as a Population Genetics Tool?. <i>Genes</i> , 2019, 10, 192. | 1.0 | 160 |
| 44 | DNA metabarcoding assays reveal a diverse prey assemblage for <i>Mobula</i> rays in the Bohol Sea, Philippines. <i>Ecology and Evolution</i> , 2019, 9, 2459-2474. | 0.8 | 20 |
| 45 | Marine environmental DNA biomonitoring reveals seasonal patterns in biodiversity and identifies ecosystem responses to anomalous climatic events. <i>PLoS Genetics</i> , 2019, 15, e1007943. | 1.5 | 112 |
| 46 | Mitochondrial Genomes from New Zealand's Extinct Adzebills (Aves: Aptornithidae: Aptornis) Support a Sister-Taxon Relationship with the Afro-Madagascan Sarothruridae. <i>Diversity</i> , 2019, 11, 24. | 0.7 | 22 |
| 47 | Mitogenomic evidence of close relationships between New Zealand's extinct giant raptors and small-sized Australian sister-taxa. <i>Molecular Phylogenetics and Evolution</i> , 2019, 134, 122-128. | 1.2 | 17 |
| 48 | Avian mitochondrial genomes retrieved from museum eggshell. <i>Molecular Ecology Resources</i> , 2019, 19, 1052-1062. | 2.2 | 14 |
| 49 | Towards a microscope: Leveraging technology to transform the breadth, scale and resolution of macroecological data. <i>Global Ecology and Biogeography</i> , 2019, 28, 1937-1948. | 2.7 | 20 |
| 50 | MobiSeq: De novo SNP discovery in model and non-model species through sequencing the flanking region of transposable elements. <i>Molecular Ecology Resources</i> , 2019, 19, 512-525. | 2.2 | 4 |
| 51 | Environmental DNA (eDNA) metabarcoding reveals strong discrimination among diverse marine habitats connected by water movement. <i>Molecular Ecology Resources</i> , 2019, 19, 426-438. | 2.2 | 180 |
| 52 | Environmental DNA metabarcoding studies are critically affected by substrate selection. <i>Molecular Ecology Resources</i> , 2019, 19, 366-376. | 2.2 | 105 |
| 53 | Digging for DNA at depth: rapid universal metabarcoding surveys (RUMS) as a tool to detect coral reef biodiversity across a depth gradient. <i>PeerJ</i> , 2019, 7, e6379. | 0.9 | 24 |
| 54 | The influence of diet and environment on the gut microbial community of field crickets. <i>Ecology and Evolution</i> , 2018, 8, 4704-4720. | 0.8 | 63 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Hologenomic adaptations underlying the evolution of sanguivory in the common vampire bat. <i>Nature Ecology and Evolution</i> , 2018, 2, 659-668. | 3.4 | 124 |
| 56 | Determination of the diet of the ghost bat (<i>Macroderma gigas</i>) in the Pilbara region of Western Australia from dried prey remains and DNA metabarcoding. <i>Australian Journal of Zoology</i> , 2018, 66, 195. | 0.6 | 10 |
| 57 | Adulterants and Contaminants in Psychotropic Herbal Medicines Detected with Mass Spectrometry and Next-Generation DNA Sequencing. <i>Pharmaceutical Medicine</i> , 2018, 32, 429-444. | 1.0 | 13 |
| 58 | Genomic and life-history discontinuity reveals a precinctive lineage for a deep-water grouper with gene flow from tropical to temperate waters on the west coast of Australia. <i>Ecological Genetics and Genomics</i> , 2018, 9, 23-33. | 0.3 | 6 |
| 59 | The value of environmental DNA biobanking for long-term biomonitoring. <i>Nature Ecology and Evolution</i> , 2018, 2, 1192-1193. | 3.4 | 78 |
| 60 | DNA metabarcoding—a new approach to fauna monitoring in mine site restoration. <i>Restoration Ecology</i> , 2018, 26, 1098-1107. | 1.4 | 33 |
| 61 | Subsistence practices, past biodiversity, and anthropogenic impacts revealed by New Zealand-wide ancient DNA survey. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7771-7776. | 3.3 | 92 |
| 62 | The Microbiome of the Gastrointestinal Tract of a Range-Shifting Marine Herbivorous Fish. <i>Frontiers in Microbiology</i> , 2018, 9, 2000. | 1.5 | 67 |
| 63 | Debugging diversity—a pancontinental exploration of the potential of terrestrial blood-feeding leeches as a vertebrate monitoring tool. <i>Molecular Ecology Resources</i> , 2018, 18, 1282-1298. | 2.2 | 45 |
| 64 | Eggshell palaeogenomics: Palaeognath evolutionary history revealed through ancient nuclear and mitochondrial DNA from Madagascan elephant bird (<i>Aepyornis</i> sp.) eggshell. <i>Molecular Phylogenetics and Evolution</i> , 2017, 109, 151-163. | 1.2 | 65 |
| 65 | International workshop on advancing methods to overcome challenges associated with life history and stock assessments of data-poor deep-water snappers and groupers. <i>Marine Policy</i> , 2017, 79, 78-83. | 1.5 | 18 |
| 66 | Ecosystem biomonitoring with eDNA: metabarcoding across the tree of life in a tropical marine environment. <i>Scientific Reports</i> , 2017, 7, 12240. | 1.6 | 355 |
| 67 | DNA metabarcoding for diet analysis and biodiversity: A case study using the endangered Australian sea lion (<i>Neophoca cinerea</i>). <i>Ecology and Evolution</i> , 2017, 7, 5435-5453. | 0.8 | 120 |
| 68 | Assessing the utility of eDNA as a tool to survey reef-fish communities in the Red Sea. <i>Coral Reefs</i> , 2017, 36, 1245-1252. | 0.9 | 84 |
| 69 | Time to Spread Your Wings: A Review of the Avian Ancient DNA Field. <i>Genes</i> , 2017, 8, 184. | 1.0 | 16 |
| 70 | The application of metabolomics for herbal medicine pharmacovigilance: a case study on ginseng. <i>Essays in Biochemistry</i> , 2016, 60, 429-435. | 2.1 | 6 |
| 71 | Ancient DNA reveals complexity in the evolutionary history and taxonomy of the endangered Australian brush-tailed bettongs (<i>Bettongia</i> : Marsupialia: Macropodidae: Potoroinae). <i>Biodiversity and Conservation</i> , 2016, 25, 2907-2927. | 1.2 | 14 |
| 72 | Tropical ancient DNA from bulk archaeological fish bone reveals the subsistence practices of a historic coastal community in southwest Madagascar. <i>Journal of Archaeological Science</i> , 2016, 75, 82-88. | 1.2 | 38 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Changes in ectomycorrhizal fungal community composition and declining diversity along a 2â€millionâ€year soil chronosequence. <i>Molecular Ecology</i> , 2016, 25, 4919-4929. | 2.0 | 35 |
| 74 | An assessment of ancient DNA preservation in Holoceneâ€Pleistocene fossil bone excavated from the world heritage Naracoorte Caves, South Australia. <i>Journal of Quaternary Science</i> , 2016, 31, 33-45. | 1.1 | 20 |
| 75 | Combined DNA, toxicological and heavy metal analyses provides an auditing toolkit to improve pharmacovigilance of traditional Chinese medicine (TCM). <i>Scientific Reports</i> , 2015, 5, 17475. | 1.6 | 99 |
| 76 | Inhibition of the endosymbiont â€Candidatus Midichloria mitochondriiâ€ during 16S rRNA gene profiling reveals potential pathogens in Ixodes ticks from Australia. <i>Parasites and Vectors</i> , 2015, 8, 345. | 1.0 | 95 |
| 77 | The rise and fall of arbuscular mycorrhizal fungal diversity during ecosystem retrogression. <i>Molecular Ecology</i> , 2015, 24, 4912-4930. | 2.0 | 51 |
| 78 | Genetic diversity loss in a biodiversity hotspot: ancient <scp>DNA</scp> quantifies genetic decline and former connectivity in a critically endangered marsupial. <i>Molecular Ecology</i> , 2015, 24, 5813-5828. | 2.0 | 48 |
| 79 | From Benchtop to Desktop: Important Considerations when Designing Amplicon Sequencing Workflows. <i>PLoS ONE</i> , 2015, 10, e0124671. | 1.1 | 177 |
| 80 | A critical evaluation of how ancient DNA bulk bone metabarcoding complements traditional morphological analysis of fossil assemblages. <i>Quaternary Science Reviews</i> , 2015, 128, 37-47. | 1.4 | 33 |
| 81 | Comparison of Sanger and next generation sequencing performance for genotyping <i>Cryptosporidium</i> isolates at the 18S rRNA and actin loci. <i>Experimental Parasitology</i> , 2015, 151-152, 21-27. | 0.5 | 32 |
| 82 | Metagenomic analyses of bacteria on human hairs: a qualitative assessment for applications in forensic science. <i>Investigative Genetics</i> , 2014, 5, 16. | 3.3 | 69 |
| 83 | Whole-genome analyses resolve early branches in the tree of life of modern birds. <i>Science</i> , 2014, 346, 1320-1331. | 6.0 | 1,583 |
| 84 | Comparative genomics reveals insights into avian genome evolution and adaptation. <i>Science</i> , 2014, 346, 1311-1320. | 6.0 | 895 |
| 85 | Interpreting biological degradative processes acting on mammalian hair in the living and the dead: which ones are taphonomic?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141755. | 1.2 | 18 |
| 86 | Extinct New Zealand megafauna were not in decline before human colonization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4922-4927. | 3.3 | 109 |
| 87 | Identifying conservation units after large-scale land clearing: a spatio-temporal molecular survey of endangered white-tailed black cockatoos (<i>Calyptorhynchus</i> spp.). <i>Diversity and Distributions</i> , 2014, 20, 1208-1220. | 1.9 | 15 |
| 88 | Thorough assessment of DNA preservation from fossil bone and sediments excavated from a late Pleistoceneâ€Holocene cave deposit on Kangaroo Island, South Australia. <i>Quaternary Science Reviews</i> , 2014, 84, 56-64. | 1.4 | 36 |
| 89 | An extremely low-density human population exterminated New Zealand moa. <i>Nature Communications</i> , 2014, 5, 5436. | 5.8 | 42 |
| 90 | Scrapheap Challenge: A novel bulk-bone metabarcoding method to investigate ancient DNA in faunal assemblages. <i>Scientific Reports</i> , 2013, 3, 3371. | 1.6 | 72 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Metabarcoding avian diets at airports: implications for birdstrike hazard management planning. <i>Investigative Genetics</i> , 2013, 4, 27. | 3.3 | 25 |
| 92 | Deep Sequencing of Plant and Animal DNA Contained within Traditional Chinese Medicines Reveals Legality Issues and Health Safety Concerns. <i>PLoS Genetics</i> , 2012, 8, e1002657. | 1.5 | 245 |
| 93 | High-throughput sequencing of ancient plant and mammal DNA preserved in herbivore middens. <i>Quaternary Science Reviews</i> , 2012, 58, 135-145. | 1.4 | 40 |
| 94 | Application of STR markers in wildlife forensic casework involving Australian black-cockatoos (<i>Calyptorhynchus</i> spp.). <i>Forensic Science International: Genetics</i> , 2012, 6, 664-670. | 1.6 | 26 |
| 95 | Ancient DNA analyses of early archaeological sites in New Zealand reveal extreme exploitation of moa (<i>Aves: Dinornithiformes</i>) at all life stages. <i>Quaternary Science Reviews</i> , 2012, 52, 41-48. | 1.4 | 20 |
| 96 | The half-life of DNA in bone: measuring decay kinetics in 158 dated fossils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4724-4733. | 1.2 | 478 |
| 97 | Quantitative Real-Time PCR in aDNA Research. <i>Methods in Molecular Biology</i> , 2012, 840, 121-132. | 0.4 | 13 |
| 98 | Profiling the Dead: Generating Microsatellite Data from Fossil Bones of Extinct Megafauna—Protocols, Problems, and Prospects. <i>PLoS ONE</i> , 2011, 6, e16670. | 1.1 | 39 |
| 99 | Molecular and morphological analyses of avian eggshell excavated from a late thirteenth century earth oven. <i>Journal of Archaeological Science</i> , 2011, , . | 1.2 | 12 |
| 100 | DNA-Based Faecal Dietary Analysis: A Comparison of qPCR and High Throughput Sequencing Approaches. <i>PLoS ONE</i> , 2011, 6, e25776. | 1.1 | 124 |
| 101 | Merging ancient and modern DNA: extinct seabird taxon rediscovered in the North Tasman Sea. <i>Biology Letters</i> , 2010, 6, 94-97. | 1.0 | 17 |
| 102 | Fossil avian eggshell preserves ancient DNA. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1991-2000. | 1.2 | 103 |
| 103 | Identification of microsatellites from an extinct moa species using high-throughput (454) sequence data. <i>BioTechniques</i> , 2009, 46, 195-200. | 0.8 | 94 |
| 104 | “The Farm Beneath the Sand” an archaeological case study on ancient “dirty” DNA. <i>Antiquity</i> , 2009, 83, 430-444. | 0.3 | 60 |
| 105 | Ancient DNA Chronology within Sediment Deposits: Are Paleobiological Reconstructions Possible and Is DNA Leaching a Factor?. <i>Molecular Biology and Evolution</i> , 2007, 24, 982-989. | 3.5 | 202 |
| 106 | Cross-species amplification at microsatellite loci in Australian quolls including the description of five new markers from the Chuditch (<i>Dasyurus geoffroii</i>). <i>Molecular Ecology Notes</i> , 2007, 7, 1100-1103. | 1.7 | 16 |
| 107 | Ancient DNA Provides New Insights into the Evolutionary History of New Zealand's Extinct Giant Eagle. <i>PLoS Biology</i> , 2005, 3, e9. | 2.6 | 77 |
| 108 | Extreme reversed sexual size dimorphism in the extinct New Zealand moa <i>Dinornis</i> . <i>Nature</i> , 2003, 425, 172-175. | 13.7 | 151 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Diverse Plant and Animal Genetic Records from Holocene and Pleistocene Sediments. Science, 2003, 300, 791-795. | 6.0 | 571 |