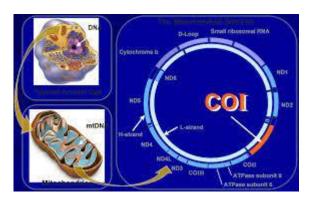


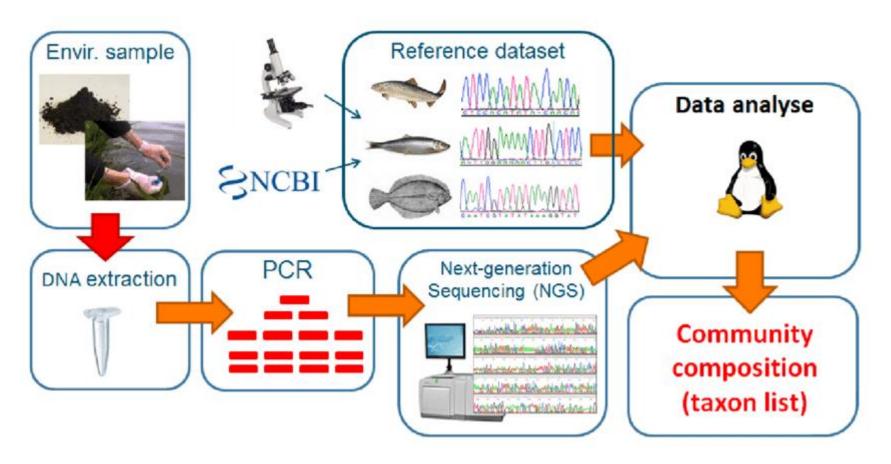
Environmental DNA BIOL3110





Meta-barcoding





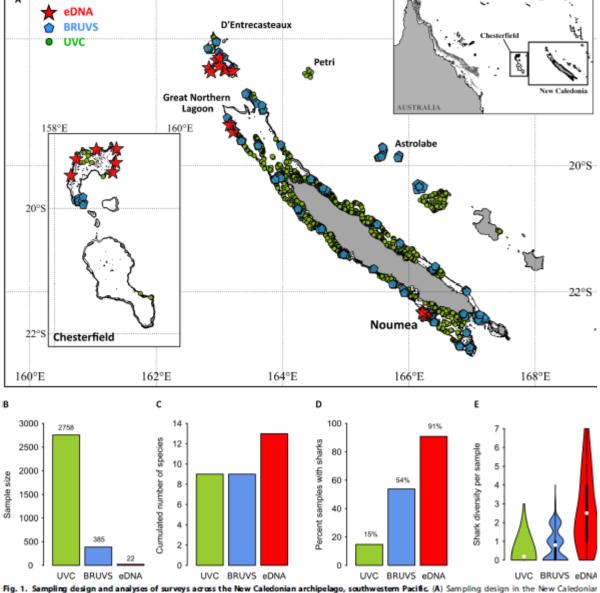


Fig. 1. Sampling design and analyses of surveys across the New Caledonian archipelago, southwestern Pacific. (A) Sampling design in the New Caledonian archipelago (red stars, eDNA; blue pentagons, BRUVS; green dots, UVQ. (B) Sample size (UVC, n = 2758; BRUVS, n = 385; eDNA, n = 22). (C) Cumulated number of shark specie detected. (D) Frequency of samples with sharks detected. (E) Violin plots howing detected shark species richness, significantly different between techniques (P < 0.001, Kruskai Wallis test), with eDNA detecting more sharks species (25 ± 1.9) compared to BRUVS (08 ± 0.8) and UVC (0.2 ± 0.5) (P < 0.001, Dunn's tests). White dots are mean values; thick black bars correspond to interquantile ranges; thin black lines are 95% confidence intervals.

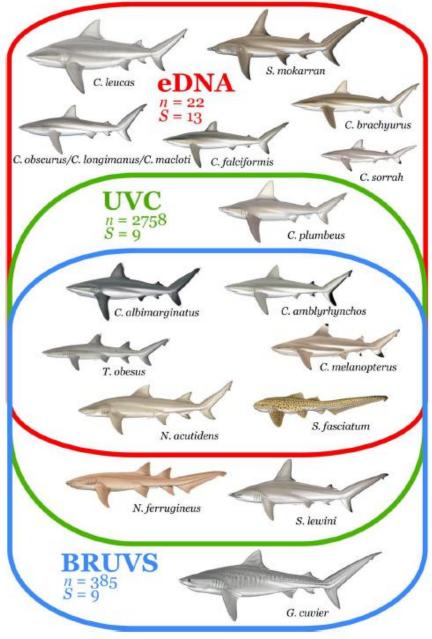


Fig. 2. Detection of shark species with different sampling methods. Venn diagram showing the species detected by eDNA (n = 22 samples, S = 13 species), UVC (n = 2758 samples, S = 9 species), and BRUVS (n = 385 samples, S = 9 species). Scientific drawings courtesy of M. Dando.

Bousarrie et al. 2018 Science Adv Invertebrates for monitoring vertebrate biodiversity (iDNA)

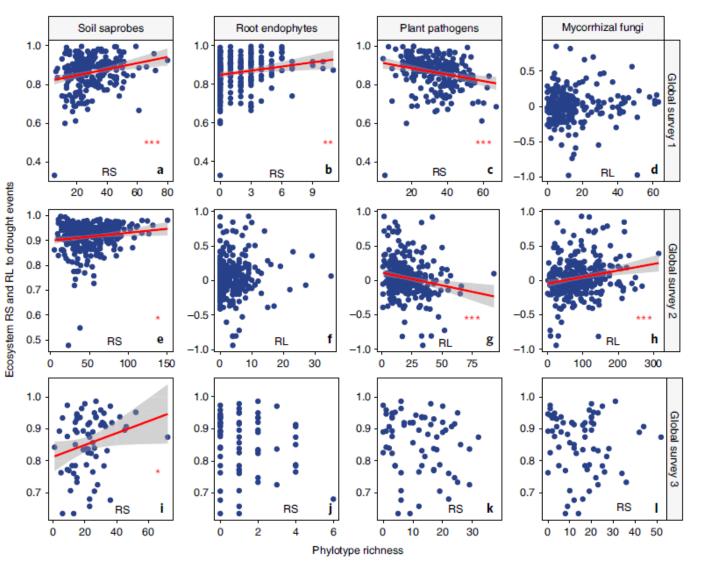


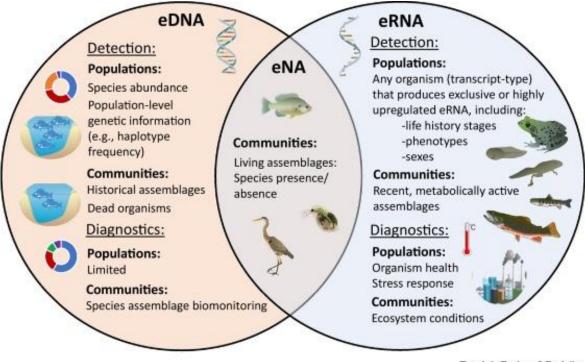


Community composition and functional

diversity

Liu et al. 2022 Nat Ecol Evol





Trends in Ecology & Evolution

