

Figure S1. Loss of heterozygosity (LOH) under mutation accumulation. (A,D) Number of loss-of-heterozygosity events per generation, (B,E) mean LOH event size (log-scale), and (C,F) LOH rate (log-scale) in *Daphnia pulex* mutation-accumulation lines exposed to metal-free (Control) conditions and to low-levels of nickel (Ni), copper (Cu), or nickel and copper (Ni+Cu). Sub-figures A,B,C are for gene conversion events only and subfigures D,E,F are for hemizygous deletion events only. A small value (10^{-7}) was added to each value in C,F to allow plotting on a log-scale as there were many values of zero. $n = 28$ for Control and 9 for other treatments

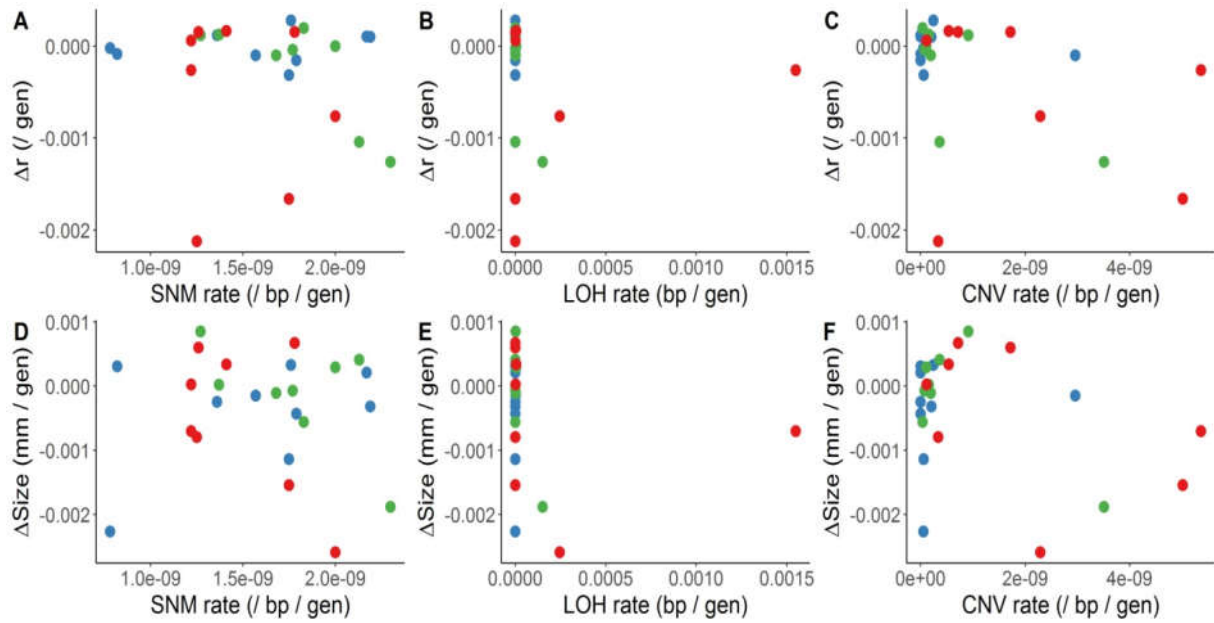


Figure S2. Life-history evolution as a function of mutation rates. (A,B,C) Per generation change in intrinsic rate of increase (r) and (D,E,F) body size as a function of (A,D) single nucleotide mutation rate (square-root scale), (B,E) loss-of-heterozygosity (LOH) rate (log-scale), and (C,F) copy number variant (CNV) rate (log-scale) in *Daphnia pulex* mutation-accumulation lines exposed to metal-free (control) conditions (blue) and to low-levels of copper (green) or nickel and copper (red). $n = 25$ across treatments.