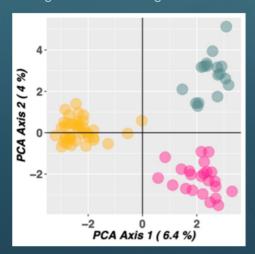


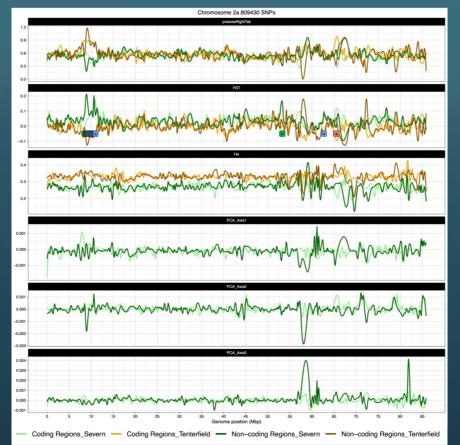
We searched for cases where F_{ST} differed by more than three standard deviations between any combination of the dammed (Severn) versus undammed (Tenterfield) streams and coding versus non-coding.



 Severn River
Severn River
Tenterfield Creek above the dam
below the dam

We found 115, 46, and 185 genomic regions explained by scenarios a), b) and c), respectively. Our preliminary analyses identified potential genomic regions under natural selection in genes with metabolic and development functions, including KCNIP4, ADAM10 and OXR1.

- a) only adaptive regions diverged
- b) only neutral regions diverged
- c) adaptive regions diverged and influenced adjacent neutral loci



Next steps

Further analyses using a two-criteria approach (i.e. confirmation with at least two measures of genetic differentiation such as G_{ST} , Jost's D, mutual information and Adjusted AFD) are underway to validate whether those loci are putatively under natural selection.

Thank you!

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