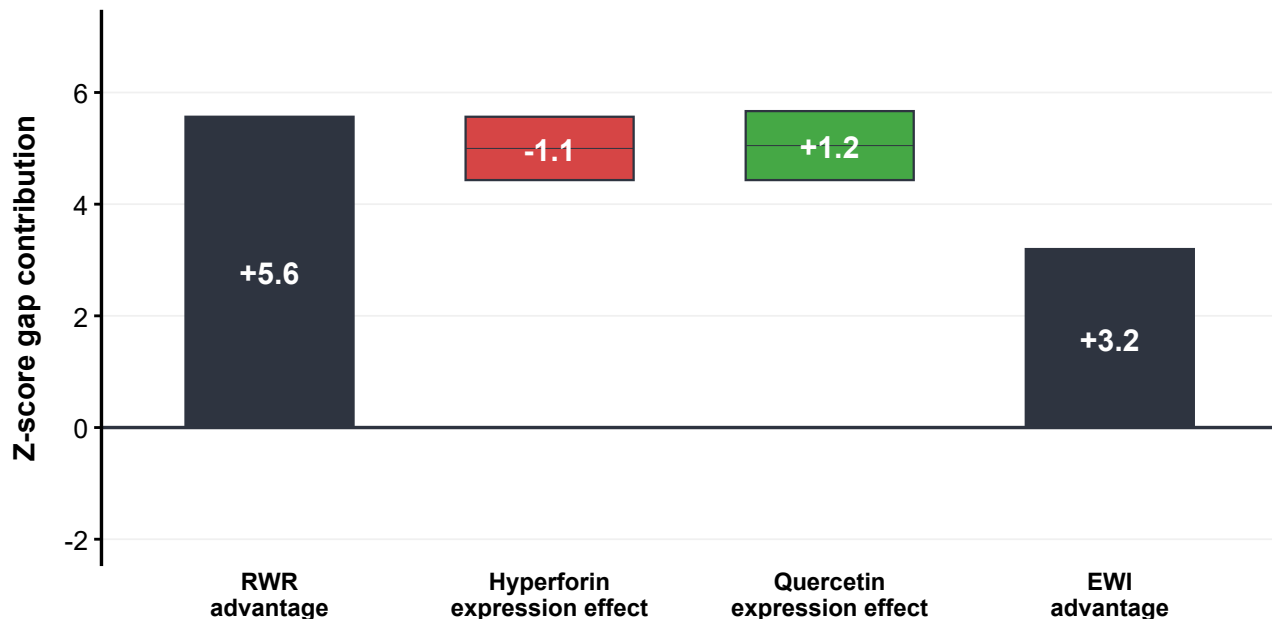


# Expression weighting attenuates but does not reverse the advantage

Gap: +5.6 (RWR)  $\rightarrow$  +3.2 (EWI)



[CONSTRAINT ANALYSIS] The RWR advantage (+5.6) is partitioned under expression-weighted influence propagation: (1) Hyperforin's change under expression weighting (-1.1); (2) Quercetin's gain (+1.2, driven by CFB at 1115 TPM). Residual advantage (+3.2) remains significant (both  $p < 10^{-8}$ ). GTEx v8 liver expression (TPM  $\geq 1$ ). STRING v12.0 ( $\geq 900$ ),  $n = 1,000$  degree-matched permutations.