



Figure 2: **Accuracy of offset p -values.** Each figure plots the computed offset p -value as a function of the empirical (rank-based) p -value from searching shuffled query motifs against shuffled target motifs. The central line corresponds $y = x$, while the two adjacent dotted lines correspond to $y = 0.5x$ and $y = 2x$. Each panel contains p -values computed using a different column similarity function.