



**Supplementary Figure 1.** Extra dispatched reads vs.  $r$  and  $k$ . (a) Percentage of extra dispatched reads vs. the number of hash functions,  $k$ , for the fixed value of  $r = 16$  on *C. elegans* dataset. (b) Percentage of extra dispatched reads vs. the number of bits per item,  $r$ , for the fixed value of  $k = 5$  on *C. elegans* dataset.