Figure 1 Α Break Break Gene A Gene B Breakpoint Fusion RNA transcript AAAAA В Novel IncRNAs identified using Flnc Input Annotated IncRNAs from LncBook RNA-seg datasets Annotated genes from GENCODE Index the library Index regarding genomic annotation for building both IncRNA and mRNA genes STAR-Fusion **Breakpoint ARRIBA** Detection STAR-SEQ Consensus Multiple Callers: fusions detected from at least two calls filtering STAR-Fusion only calls: Require FFPM>0.1 Exclude mitochondrial, immunoglobulin, duplicated genes and Other paralogue filtering Exclude false fusions based on the RefSeg curated annotation **Putative fusions** Inc-fusions: IncRNA-IncRNA, IncRNA-mRNA, mRNA-IncRNA Output mRNA-fusions: mRNA-mRNA