Informatic Tools for Single-Nucleotide Analysis of RNA-Seq

To conduct individualized SNV analyses using RNA-Seq alone

Read Alignments



SNV Identification (SNP, RNA editing)



Functional Prediction

RASER

Read Aligner for SNPs and Editing sites in RNA

GIREMI

Genome-independent
Identification of RNA
Editing by Mutual
Information

ExpressGV

Expressed genetic variants identification using RNA-Seq alone

eGRAS, iGRAS

Allele-specific analysis to predict <u>functional</u>

<u>SNPs/RNA editing sits</u> in mRNA processing (splicing, alternative polyadenylation)

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https://www.ibp.ucla.edu/research/xiao/Home.html