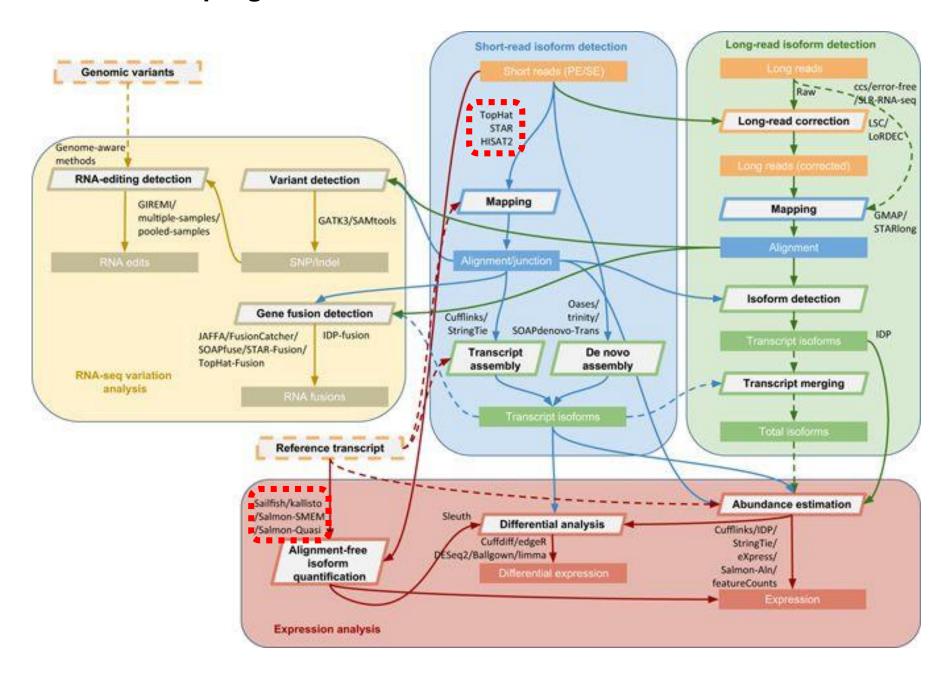


# Overview of RNA-Seq data alignment methods

SPP workshop October 2019 | MPIPZ Cologne

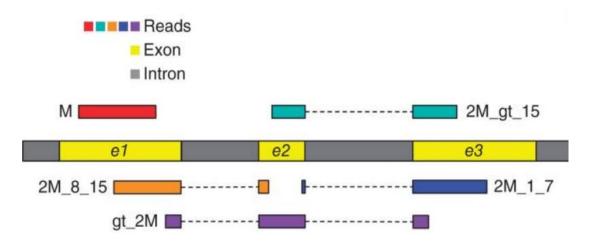
**Yulong Niu** 

### 1. Modern RNA-Seq alignment methods

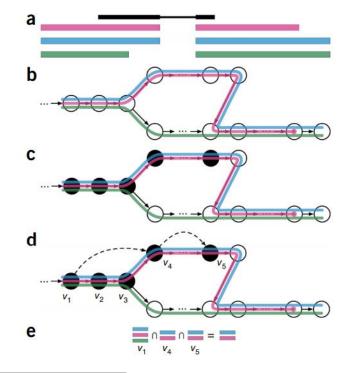


## 2. Alignment and pseudo-alignment

(genome) alignment **HISAT2** 



# (transcriptome) alignment **kallisto**

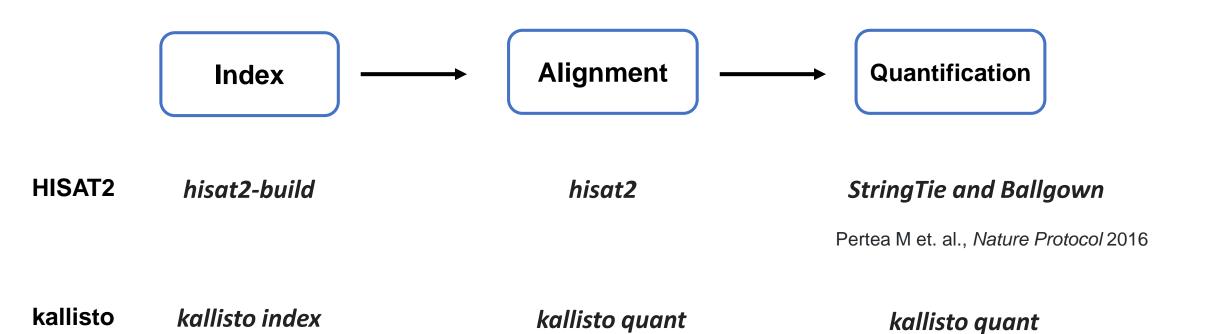


	HISAT2	kallisto
Reference	genome	transcriptome
Speed	slow	fast
Novel splicing	Yes	No

<sup>1.</sup> Kim D et. al., 2015

<sup>2.</sup> Nicolas L Bray et. al., 2016

### 3. (Pseudo)-alignment workflow





https://github.com/YulongNiu/MPIPZ\_SPP\_workshop/blob/master/RNA-Seq/tutorials/RNA-Seq\_alignment.md