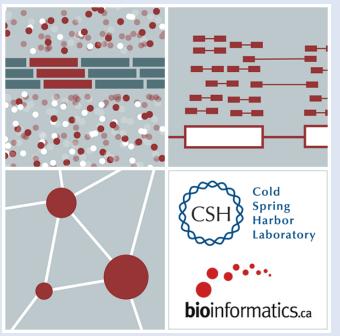
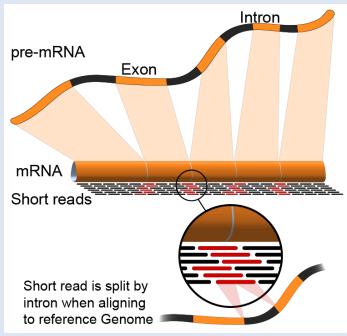


RNA-Seq Module 5: Alternative Splicing Analysis

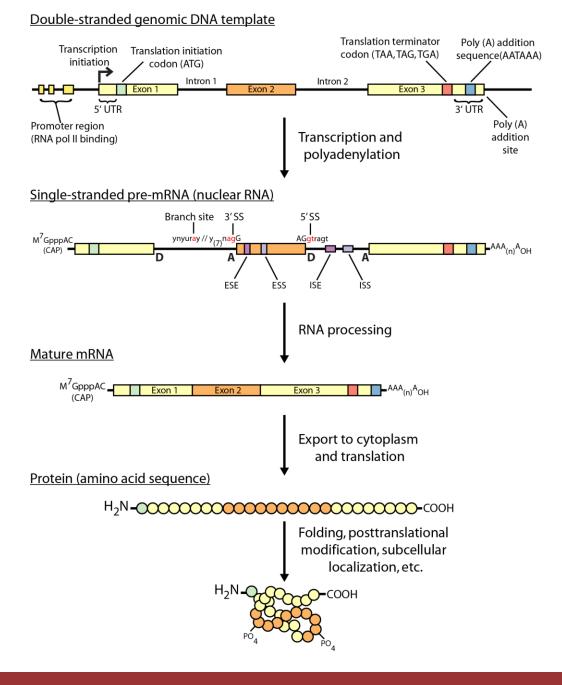
Arpad Danos, Felicia Gomez, Obi Griffith, Malachi Griffith, My Hoang, Mariam Khanfar, Chris Miller, Kartik Singhal Advanced Sequencing Technologies & Bioinformatics Analysis November 10-23, 2024



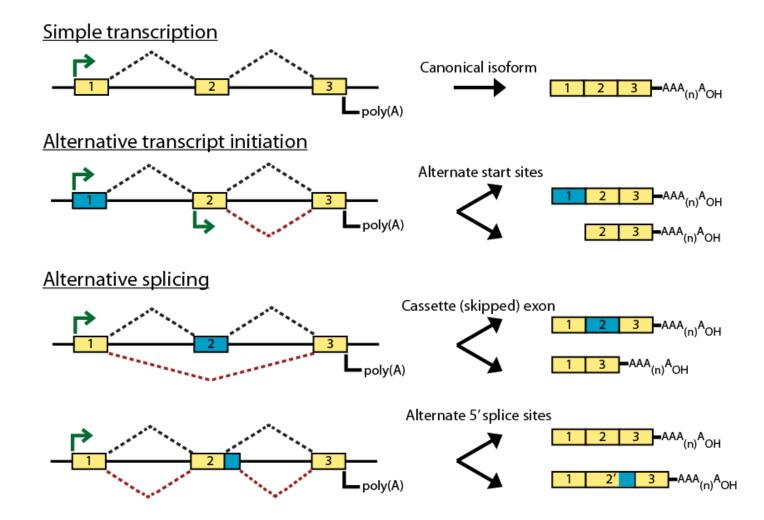




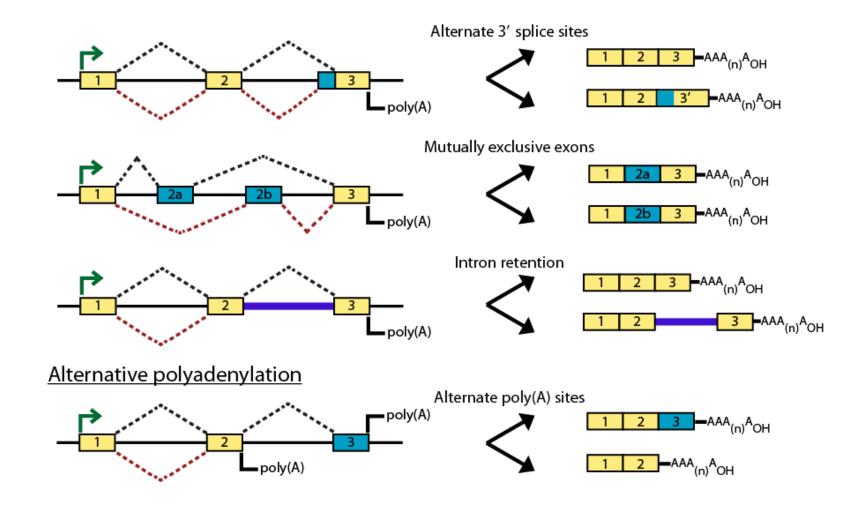
Review of gene expression



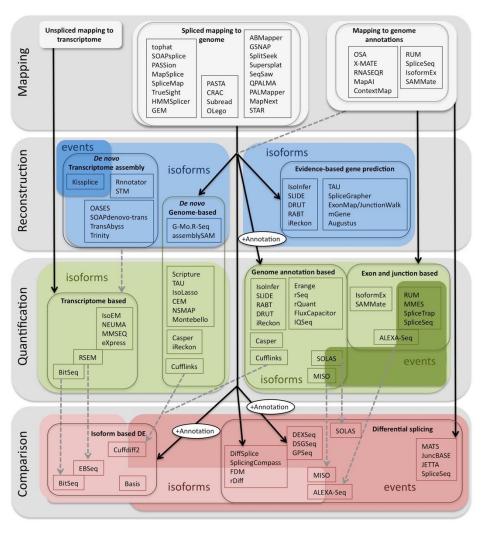
Types of alternative expression - part 1



Types of alternative expression – part 2

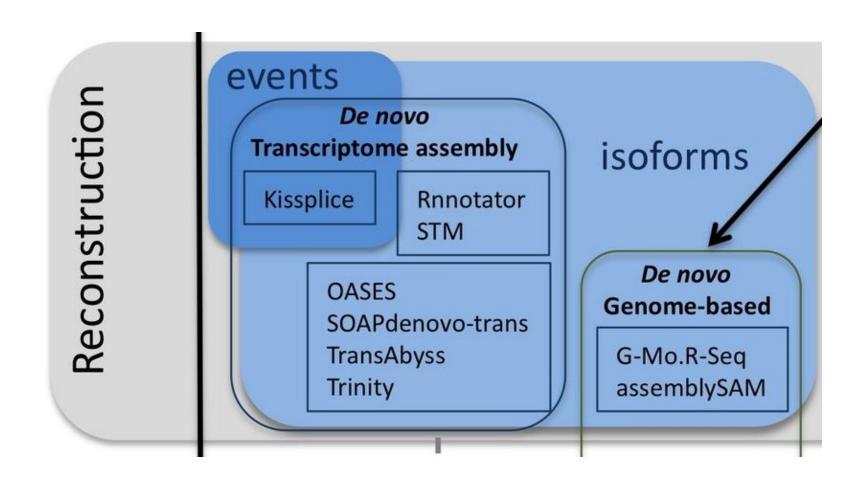


Methods to study splicing by RNA-seq



http://www.rna-seqblog.com/data-analysis/splicing-junction/methods-to-study-splicing-from-rna-seq/http://arxiv.org/ftp/arxiv/papers/1304/1304.5952.pdf

Methods to study splicing by RNA-seq

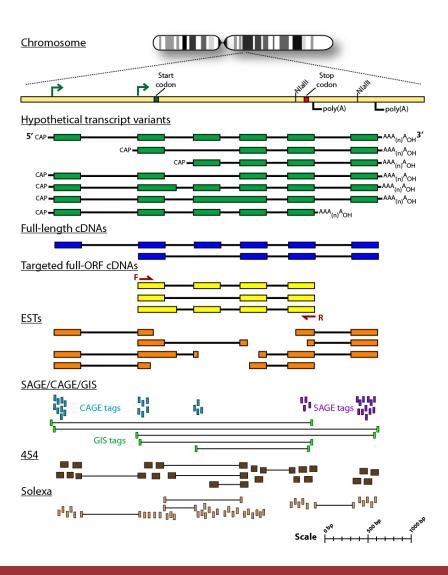


http://www.rna-seqblog.com/data-analysis/splicing-junction/methods-to-study-splicing-from-rna-seq/http://arxiv.org/ftp/arxiv/papers/1304/1304.5952.pdf

Useful resources and discussion

- Best approach to predict novel and alternative splicing events from RNA-seq data
 - http://www.biostars.org/p/68966/
 - http://www.biostars.org/p/62728/
- Alternative splicing detection
 - http://www.biostars.org/p/65617/
 - http://www.biostars.org/p/11695/
- Identifying genes that express different isoforms in cancer vs normal RNA-seq data
 - http://www.biostars.org/p/50365/
- Cufflinks / Cuffdiff Output How are tests different?
 - http://www.biostars.org/p/13525/
- Visualization of alternative splicing events using RNA-seq data
 - http://www.biostars.org/p/8979/

Sequencing methods for studying alternative isoforms



8 rnabio.org

We are on a Coffee Break & Networking Session