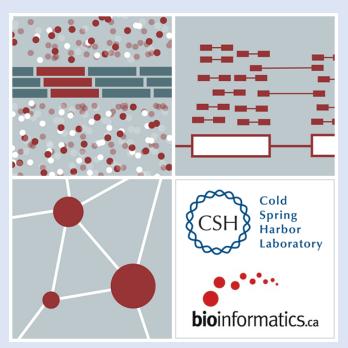
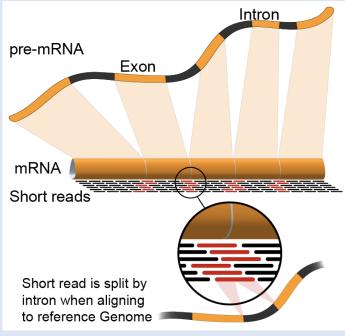


RNA-Seq Module 5 Alternative Splicing Analysis

Kelsy Cotto, Felicia Gomez, Obi Griffith, Malachi Griffith, My Hoang, Chris Miller, Huiming Xia

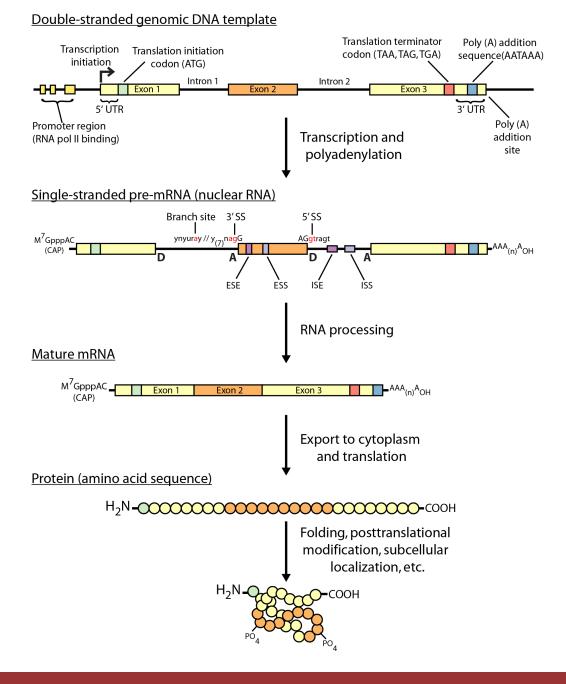
Advanced Sequencing Technologies & Bioinformatics Analysis November 6-20, 2022



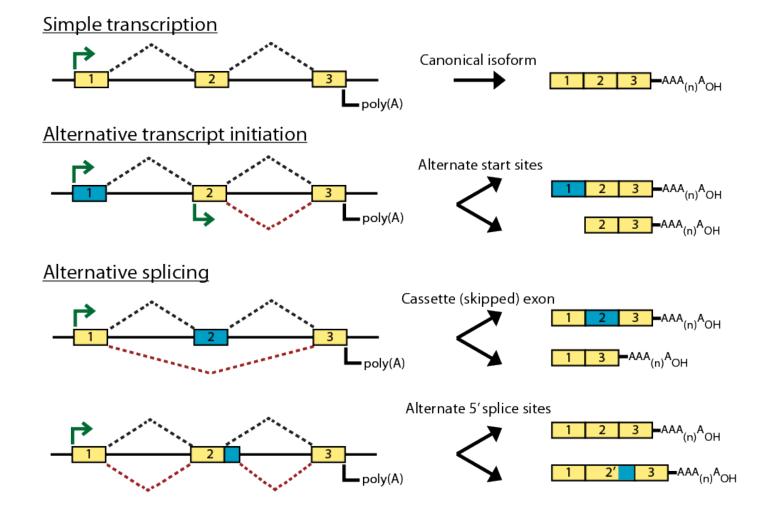




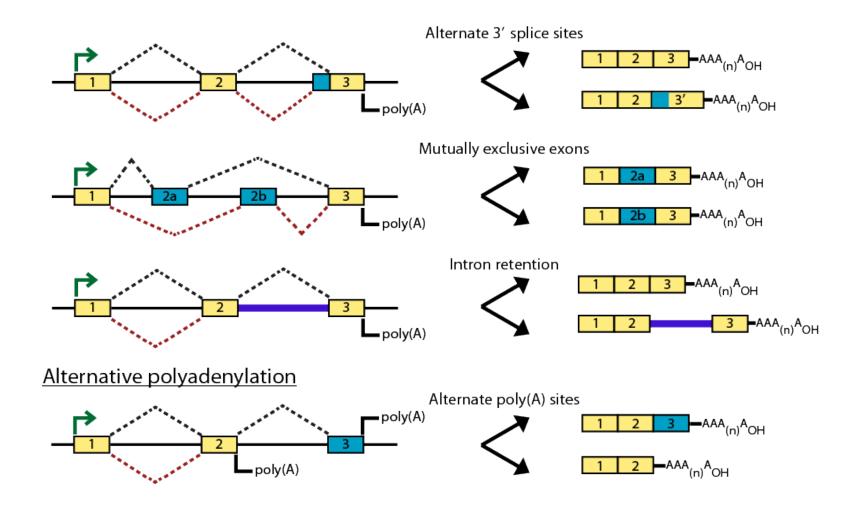
Review of gene expression

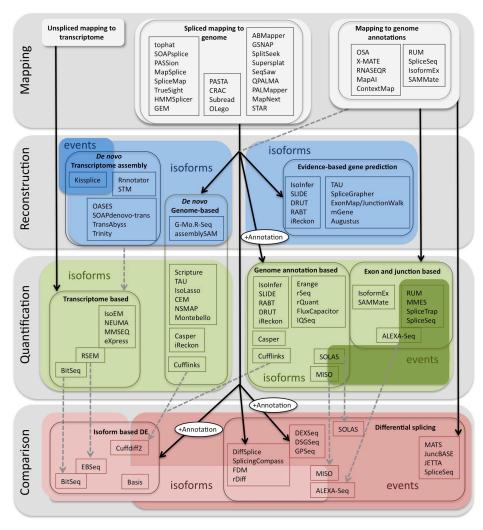


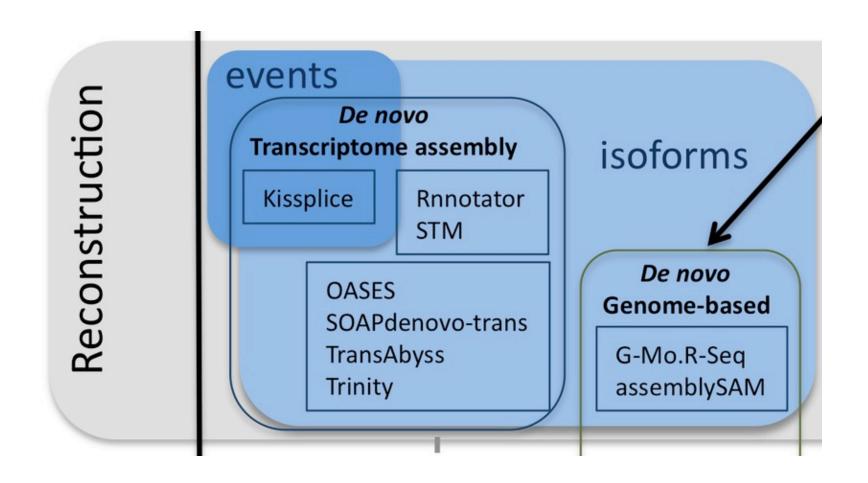
Types of alternative expression - part 1



Types of alternative expression – part 2



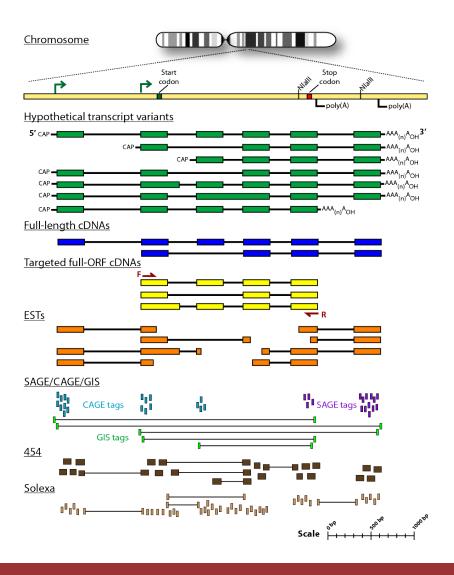




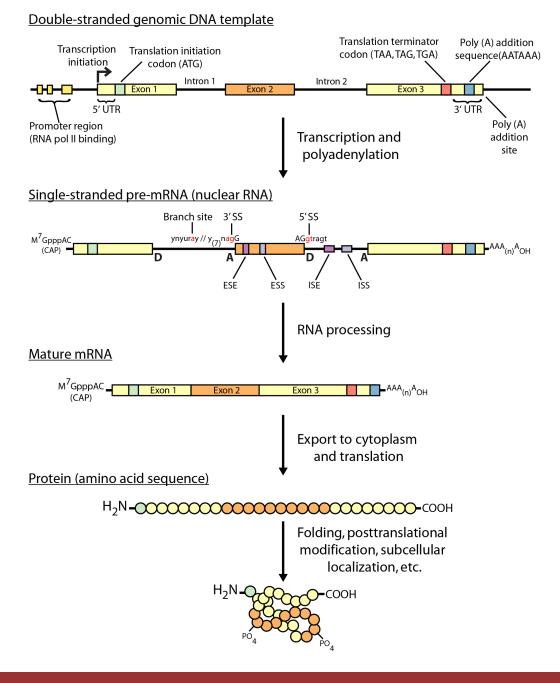
Useful resources and discussion

- 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/

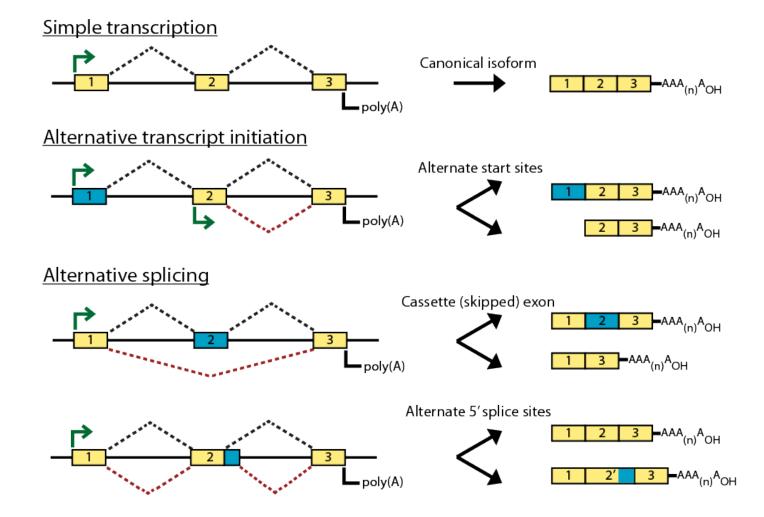
Sequencing methods for studying alternative isoforms



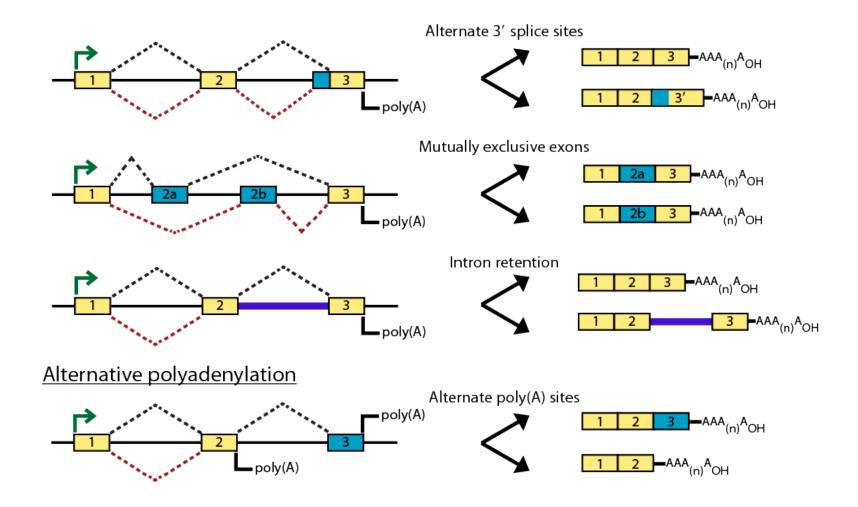
Review of gene expression

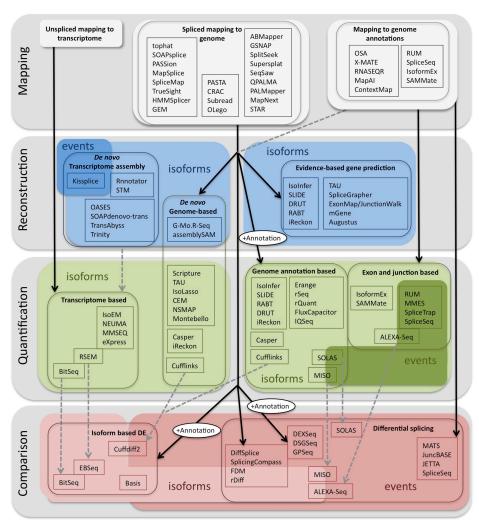


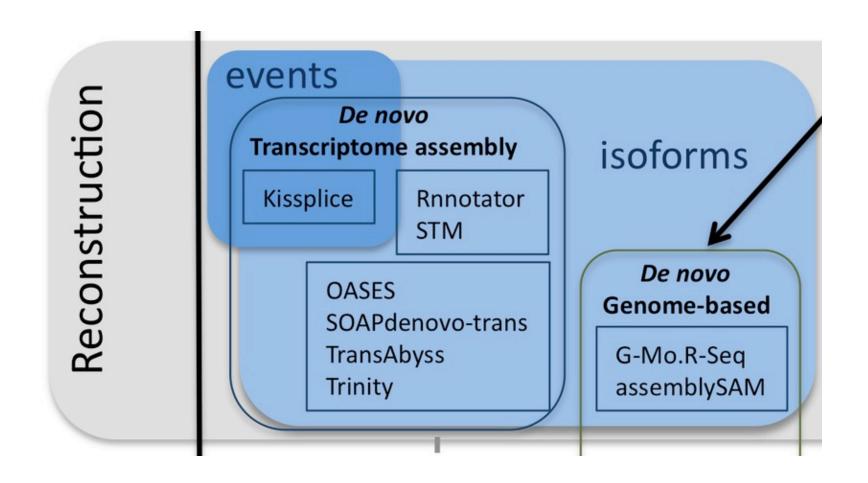
Types of alternative expression - part 1



Types of alternative expression – part 2



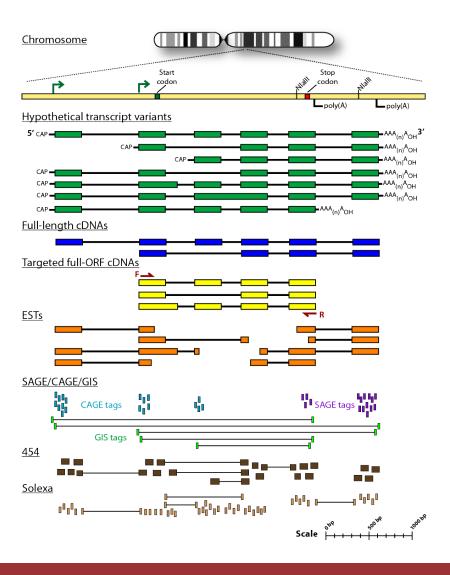




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Sequencing methods for studying alternative isoforms



We are on a Coffee Break & Networking Session