Prioritization of structural variants based on known biological information

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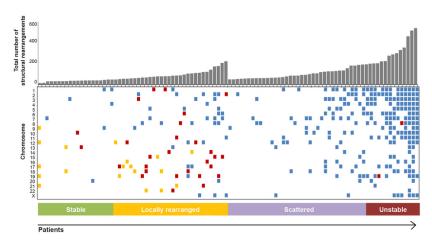
10 July 2015

Validated, community developed tools



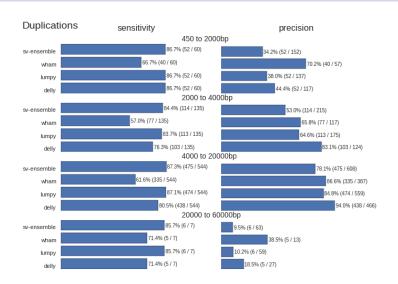
https://github.com/chapmanb/bcbio-nextgen

Structural changes critical in cancer



http://www.nature.com/nature/journal/v518/n7540/full/nature14169.html

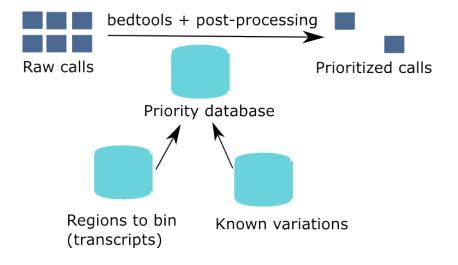
Structural variants hard to detect



http://bcb.io/2015/03/05/cancerval/

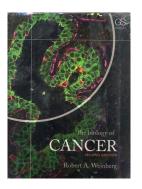


Prioritize in previously known regions



Public cancer variant databases

- CIViC: https://civic.genome.wustl.edu
- IntOGen: http://www.intogen.org



Prioritization – summary

- Structural variants critical but hard
- Use known biological information
- Support community databases
- bcbio.prioritize
 https://github.com/chapmanb/bcbio.prioritize
- bcbio https://github.com/chapmanb/bcbio-nextgen