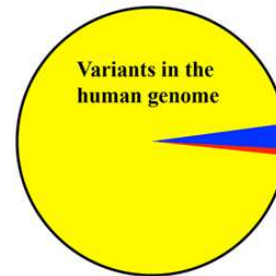


# WGS analytic pipeline

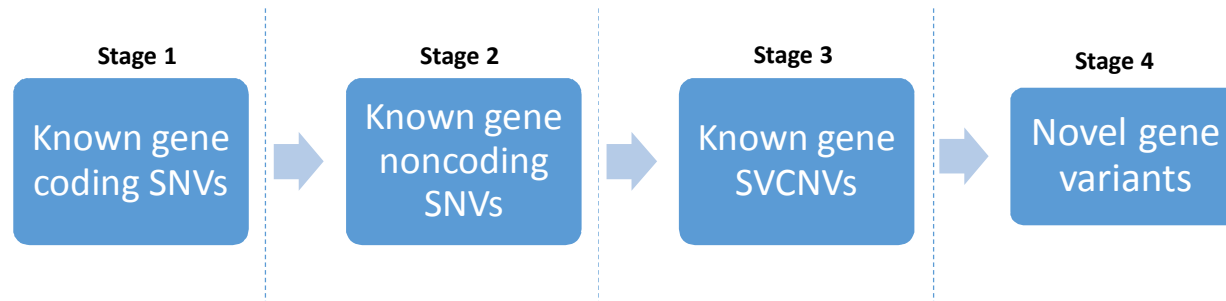
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- **TGP/WES pipeline limitation:**

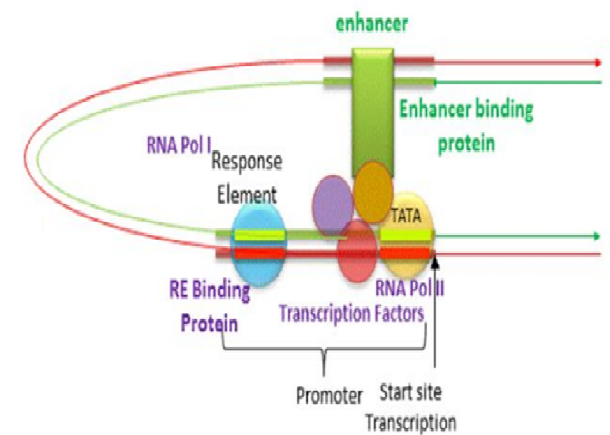
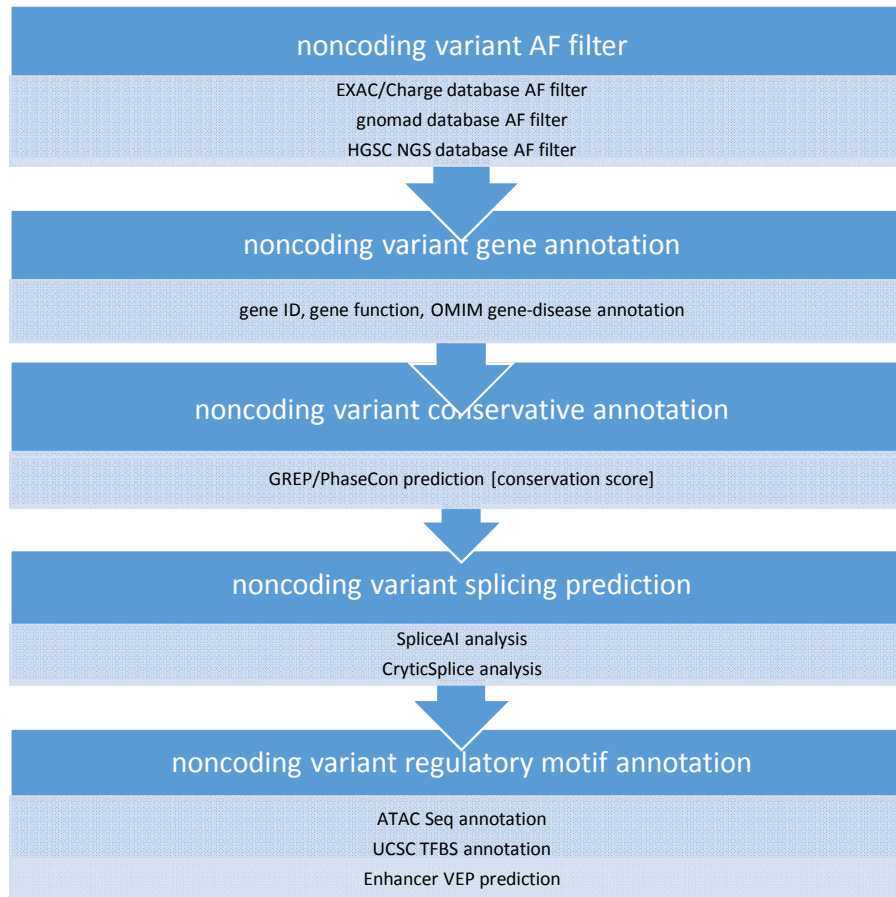
- 1. structural variants;
- 2. copy number change variants;
- 3. non-coding variants;
- 4. non-coding regulatory elements;
- 5. non-annotated genes.



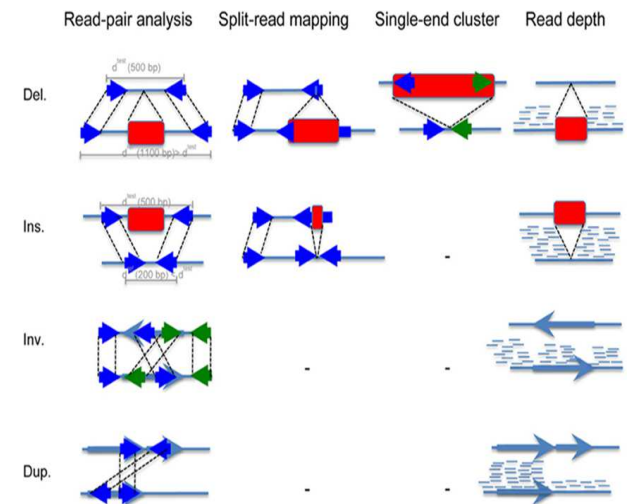
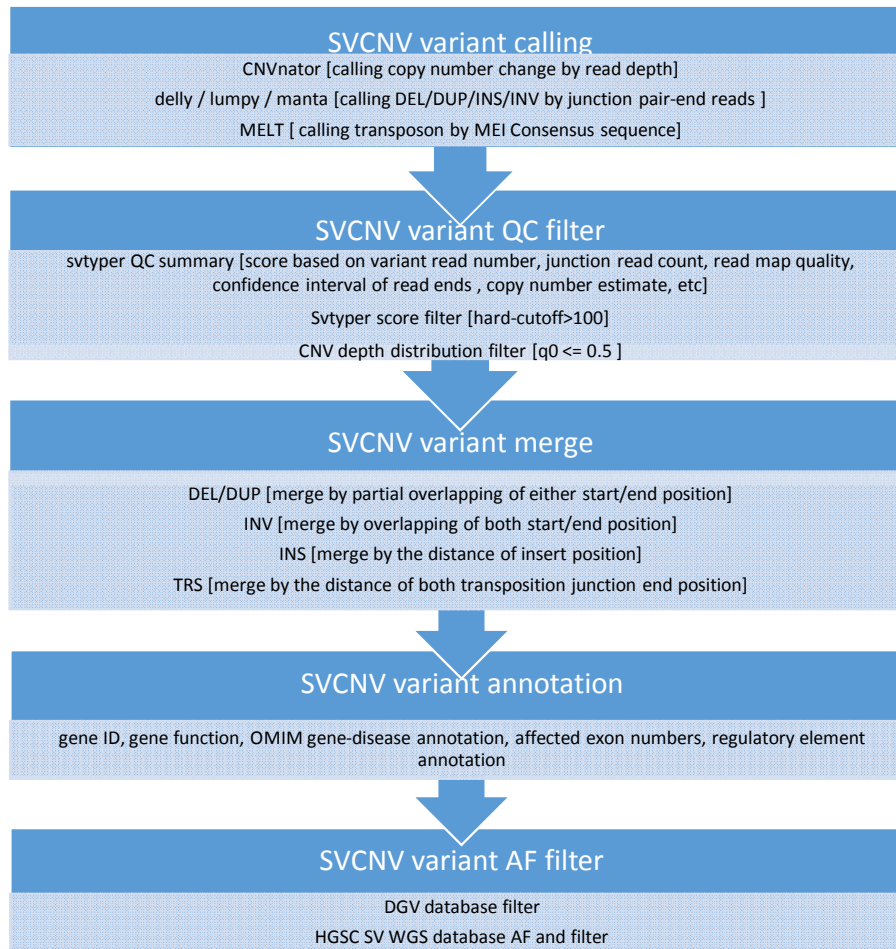
- **WGS:**  
Variants throughout the genome  
Structural variations  
Copy number variations
- **WES:**  
Variants in coding regions and splice sites  
Copy number variations
- **TGP:**  
Variants in pre-selected genes  
Deletions



# noncoding variant analysis



# SVCNV variant analysis



# Novel gene variant analysis

