



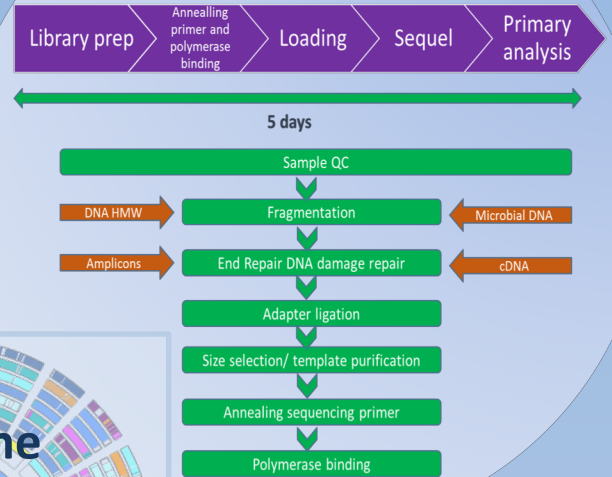
# Genomics from Long-Reads Sequencing (PacificBiosciences Sequel)



## APPLICATIONS

- Complex genome (re-)sequencing**  
→ Reference sequence, Pangenome
- Targeted sequencing**  
→ Amplicons, Capture
- Epigenomics**  
→ DNA modification, Methylation
- RNA-seq full length**  
→ Expression Atlas, Annotation
- Metagenomics**  
→ RNA 16S, Shotgun

## WORKFLOW



## RESULTS

Species	Genome length	output / SMRTCell (Gb)	Mean insert length (kb)	N50 Kb
Wheat (first SMRTCell)	17 Gb	3,7	7,7	12,5
Lupine	500 Mb	3,1	9,4	15
Tobacco	500 Mb	6,02	9,5	17,2
Tomato	900 Mb	5,02	17,15	28,3
Cucurbitaceae	450 Mb	7,54	17,2	30,1
Grape	500 Mb	8,9	11,9	21,25
Chicory	1,2 Gb	10	16	29,3



**6,3 Gb per run**  
**N50 of 22Kb**  
**Inserts of 12Kb**

## SERVICES

**For 2988 €**

**5-10 Gb**  
**5 days**  
**N50 10-30 Kb**  
**Insert size 10-20 Kb**

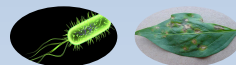
**Plants**



**Animals**



**Bacteria**



**Fungi**

