

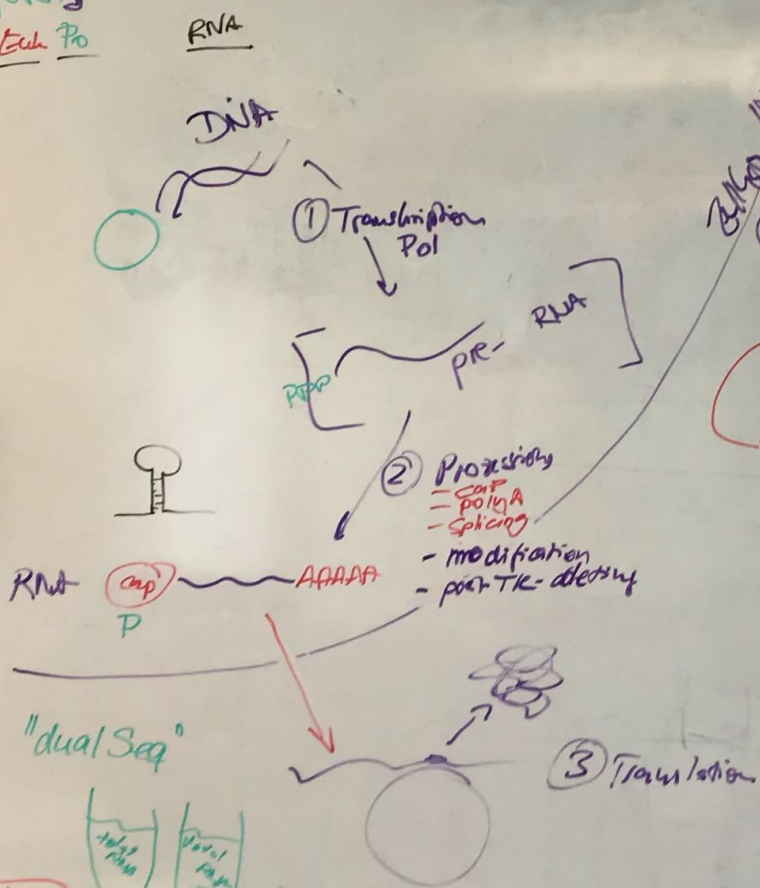
Methoden der Hochdurchsatzsequenzierung

Vorlesung 01

Sommersemester 2021

Eukaryoten }
 Prokaryoten }
 ncRNA: Euk Pro

Proteine
RNA



Zellkern / Nucleus
 Cytoplasma

Pol I: rRNA
 Pol II: mRNA, ncRNA (lncRNA)
 Pol III: ncRNA, (mRNA)

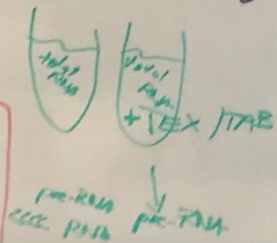
polyA
 Pol 5'

total RNA
 free RNA

cRNA-Seq
 CLIP-Seq

"dual Seq"

3 Translation

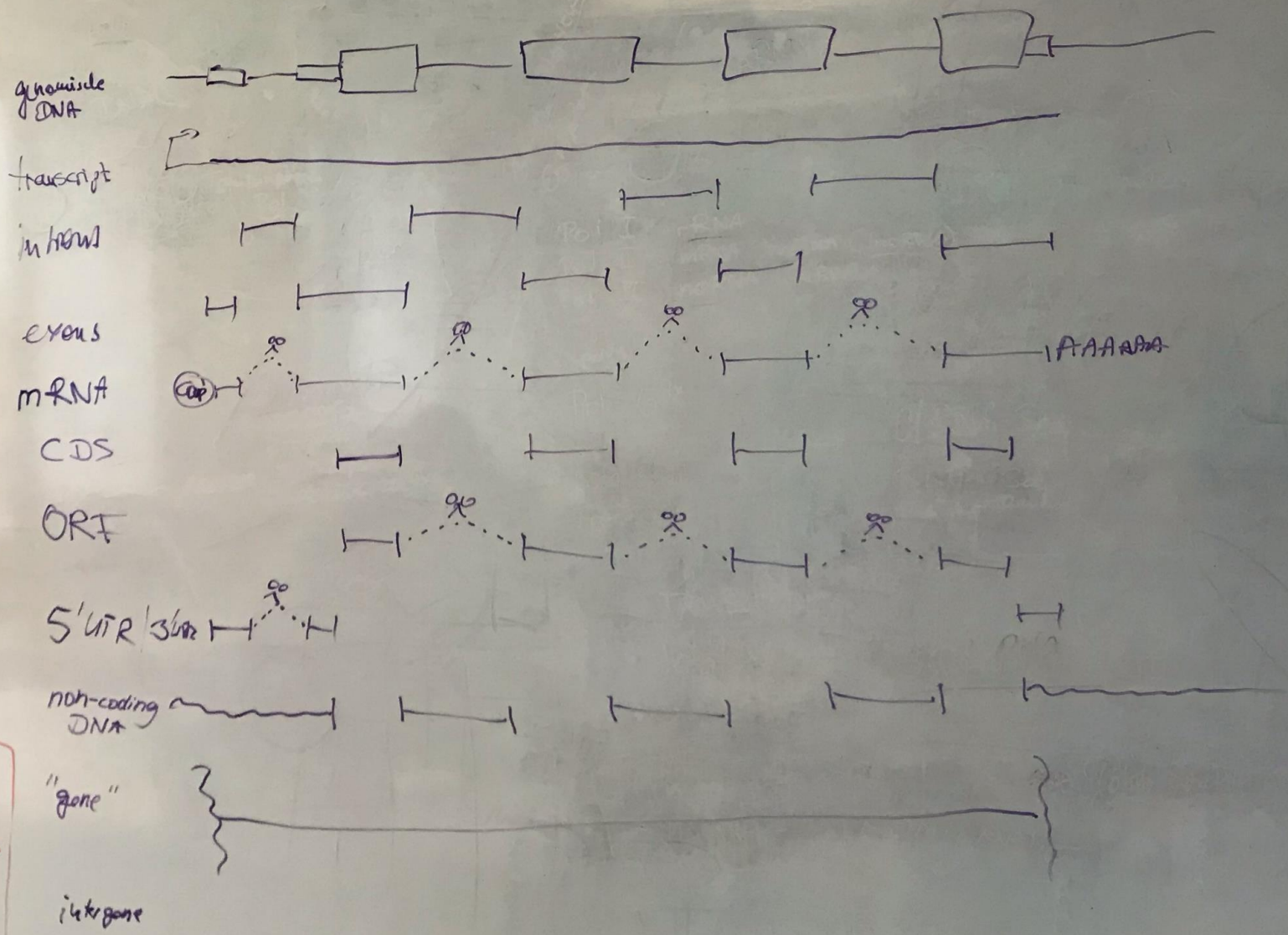


CapriSeq: polyA
 - small RNA-seq
 - 5' cap
 - 3' polyA

TRANSCRIPTION

- total RNA → 90-95% rRNA
- polyA-Seq
- Ribozero → 5%-60% rRNA (ohne kleine RNA ESD int)
- Small RNA → miRNA, piRNA, ...

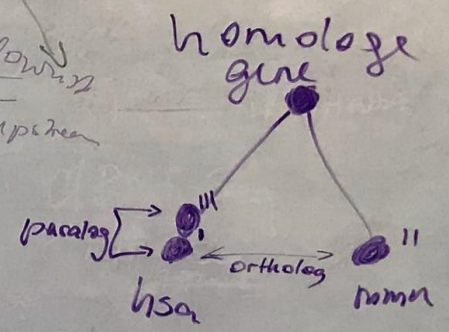
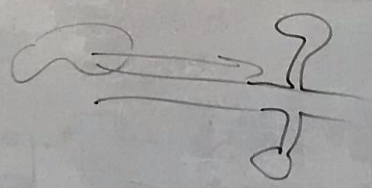
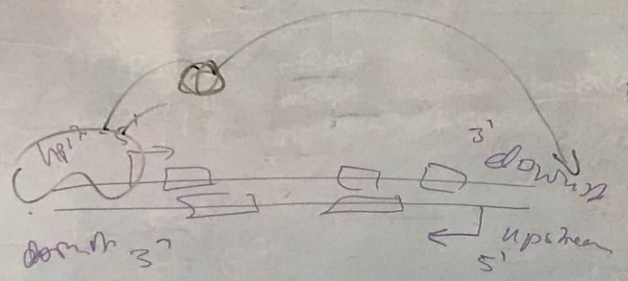
Angabe
 "
 "
 "



Capitoy: pad
 - small exons → sticky ends
 → for ligation

reads
 Contigs
 Supercontig
 Scaffold
 Superscaffold
 chromosome

Intron retention



Copying: part
 - similar to...
 - for...
 - for...

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