

35. Somatic Genome Editing and Chromosomal Engineering

1 unit, Andrea Ventura, Friday, November 14, 2025

- CRISPR-Cas9 introduction
- CRISPR as an alternative to conventional gene targeting
- Somatic gene editing
- Chromosomal engineering
 - Inversions
 - Duplications
 - Deletions
 - Translocations
- Gene amplifications
 - intrachromosomal vs extrachromosomal
 - Engineering ecDNAs in cells and in vivo

No papers are required. Students are encouraged to consult recent reviews on CRISPR and somatic gene editing