

34. Transgenic Animal Models

1 unit, Andrea Ventura, Thursday November 13, 2025

Lecture 1 (Nov 13)

- Brief Intro to cancer genetics
- Transgenic models
 - Constitutive
 - Inducible
 - *in vivo* RNAi
- Lentiviral transgenesis
- Principles of gene targeting by homologous recombination
- Constitutive KO
- Conditional KO and KI
- Reactivatable alleles
- Latent alleles

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