

31. and 32. Introduction to Genetic Engineering 1 and 2

Inbal Caspi, November 10 and 11, 2025

11/10/25:

1. Milestones of genetic engineering
2. Tools for genetic engineering (pcr, endonucleases, seq...)
3. Methods of genetic engineering (zinc fingers, TALEN, CRISPR...)

11/11/25

4. Uses of genetic engineering (medicine, agriculture)
5. Stem cells
6. Ethics

Review

[The genome editing revolution: review](#)

Discussion

[Non-viral DNA delivery and TALEN editing correct the sickle cell mutation in hematopoietic stem cells](#)