

Lab 6

Mitosis and Meiosis

Admin

- Semester is about half done.
- 2 Homeworks due next week
 - Transcription / Translation
 - Mitosis / Meiosis
- Questions from last week?
- Individual report - present a question for discussion

Individual Presentation

Mitosis

- Copy DNA for regular cell division
- Chromosome Number:
 - Haploid - 1 of each chromosome
 - Diploid - 2 of each chromosome (1 from each parent)
- Microscopes at back
- Mitosis Video:
 - <http://www.youtube.com/watch?v=L0k-enzoeOM>
- DNA extraction, Models

Meiosis

- Copy and divide DNA for reproduction
 - 4 gametes from a single parent-cell
 - “Scramble the genes”
- homologous chromosomes:
 - same genes, different parents
- Microscopes at back
- Meiosis Video:
 - <http://www.youtube.com/watch?v=qCLmR9-YY7o>
- Models, Independent assortment card game

Review

- DNA Extraction - length?
- Mitosis - steps?
- Meiosis (w/out crossing over)
- Crossing over
- Independent assortment - how many possible?