(13) **Autopolyploidy**

- **Cell division error**
- \(2n = 6\) to **tetraploid** \(4n = 12\)
- **Tetraploid gamete**
- \(2n = 6\) to **new species** \(4n = 12\)

(14) **Allopolyploid speciation**

- **Species A** \(2n = 6\)
- **Species B** \(2n = 4\)
- Unreduced gamete w/ 7 chromosomes
- Normal gamete \(n = 3\)
- Hybrid w/ 7 chromosomes
- Unreduced gamete w/ 7 chromosomes
- Normal gamete \(n = 3\)
- New species, viable, fertile hybrid \(2n = 10\)

(18) **Tempo of speciation: two models**

- **a) Punctuated pattern**
  - [Diagram of punctuated pattern]
- **b) Gradual change**
  - [Diagram of gradual change]