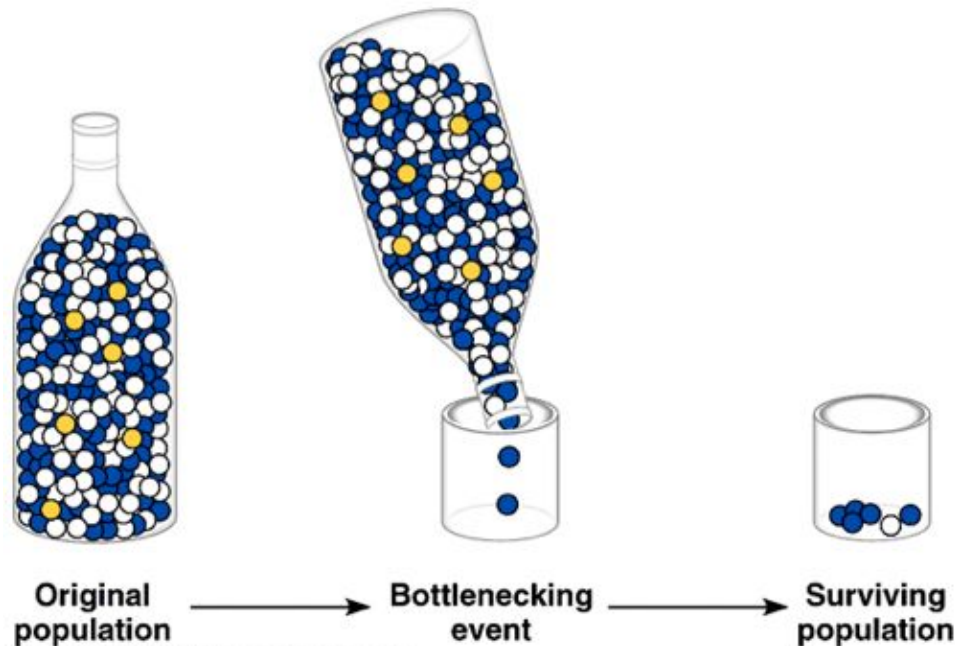


Genetic Drift

- Genetic drift occurs in **small** populations when an allele becomes more or less common **simply by chance**.
- Genetic drift is a **random change in allele frequency**.
- Genetic drift can result from two scenarios:
 1. **Bottleneck effect**
 2. **Founder effect**

Bottleneck Effect

- The bottleneck effect is a **change in allele frequency** following a dramatic **reduction** in the size of a population.
- For example, a disaster may kill many individuals in a population, and the surviving population's gene pool may contain different allele frequencies from the original gene pool.



The Founder Effect

- The founder effect occurs when allele frequencies change as a result of the **migration of a small subgroup of a population**.
- For example, a small group of beetles from a diverse population migrate to an island and interbreed, producing a new population that differs from the original.

