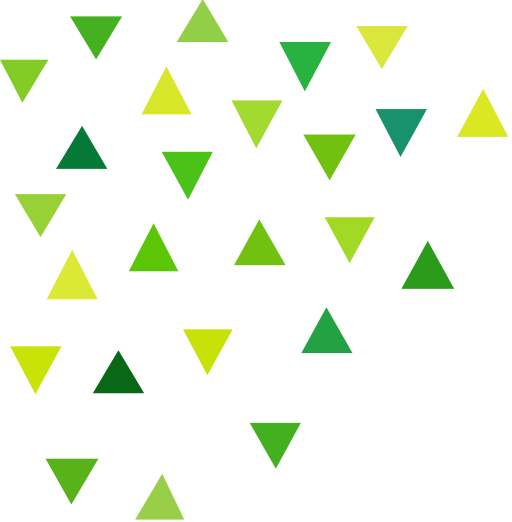
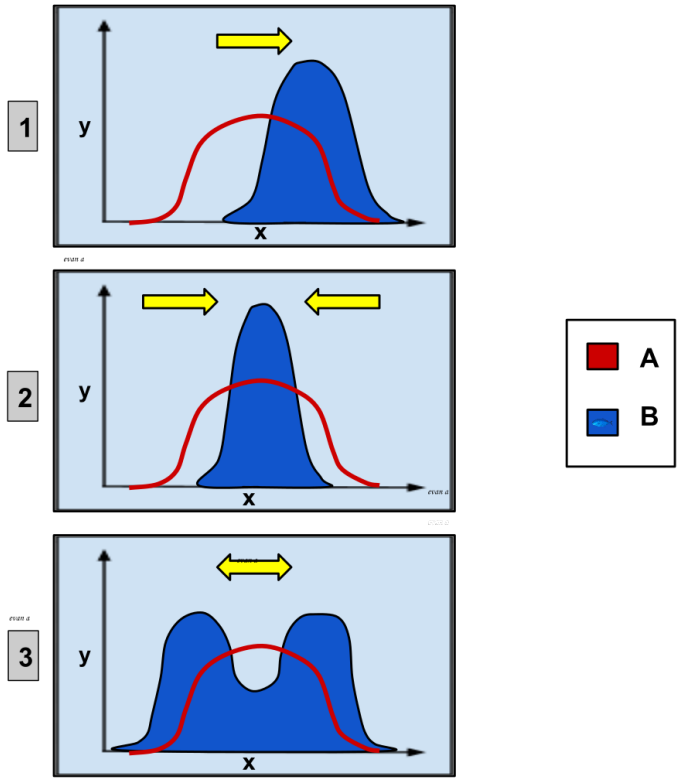


Cannabis Data Science #84

September 21st, 2022

"Artificial selection is the process by which humans choose individual organisms with certain **phenotypic** trait values for breeding. If there is additive genetic variance for the selected trait, it will respond to the selection, that is, the trait will *evolve*."

JK Conner, in Encyclopedia of Evolutionary Biology, 2016



1. A single extreme phenotype is favored;
2. The intermediate phenotype is favored over the extreme traits;
3. The extreme phenotypes are favored over the intermediate.

Relevant Topics in Biology

- Artificial vs. natural selection;
- Genetic drift;
- Chemovars or chemoforms;
- Plant cutting / cloning;
- **Pharming**!

The Emergence of Cannabis Chemovars

Hypotheses

- Can we find the data / producer / state of the 1st ocurrance of a particular strain?
- Can we find the date a particular strain spread to another state?
- Do chemical profiles vary by region?
- Does California cannabis show more chemical variation than in Michigan or Massachusetts?
  - Do new strains arise more often in CA than in MA because a larger proportion of plants are grown from seed versus clone?
  - Are concentrates more variable in CA than in MI or MA because of source flower?

Thank you for coming.

Insights of the Day

- Plant a seed: you never know what will grow.

What is on your mind for next week?