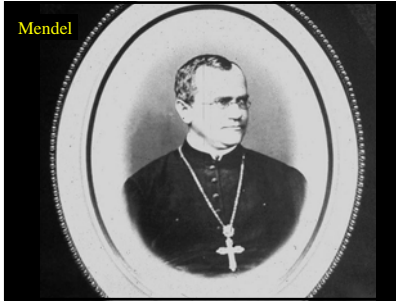


# Variation:

Appearance of Novelties

Mendel

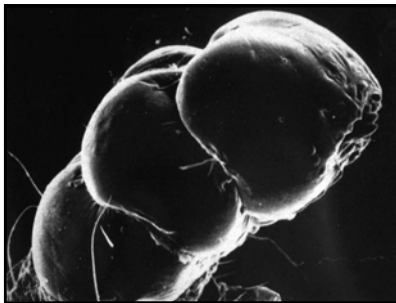


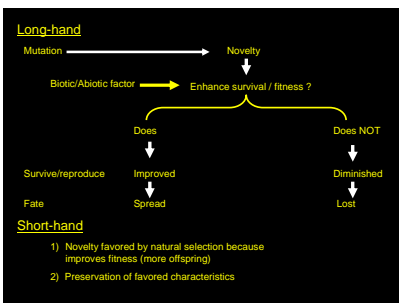
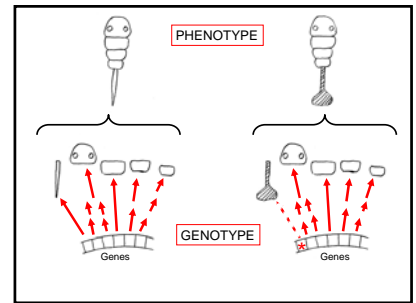
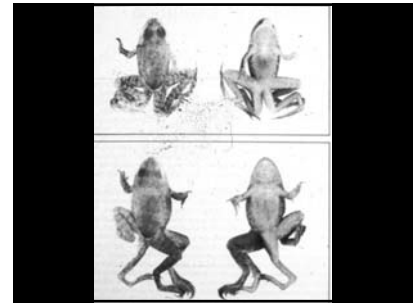
Hugo De Vries

Early 20<sup>th</sup>

Evening primrose

Mutation  
Theory—  
mutations  
drive  
evolution





### Assessment of Variation/Mutations

Long-hand  
Short-hand

**Mutation**

Build up of variation

"Random"

Spontaneous / Independent from need or environment