

Student Learning Objectives

By the end of this class you should understand the following:

- The difference between continuous and discontinuous traits
- The different factors that produce a complex trait
- The expected proportions of inheritance from polygenic traits
- The threshold model of polygenic genetic disorders
- The factors increasing risk of multifactorial disorders
- The purpose of studying twins
- The genetics of obesity, height, and intelligence

Support videos:

- Advanced genetics
 - <http://www.youtube.com/watch?v=YoEgUqHOcbc>
 - <http://www.youtube.com/watch?v=CqaBvh5XIf8>

Vocabulary:

- Discontinuous trait
- Continuous trait
- Complex trait
- Polygenic trait
- Multifactorial trait
- Regression to the mean
- Monozygotic twins
- Dizygotic twins
- Risk factors for multifactorial disorders
 - Consanguinity
 - Previous affected child
 - Severity of defect
 - Higher frequency in one sex
- Concordance
- Discordance
- Heritability