



Quiz 1

Lecture 4

W.09.13

2 points total: 1 point for attendance + 1 point for your answer

Q1: what is *different* about mitosis and meiosis?

A1: see slide #42 in lecture #5 for details... at least 2

OR

Q2: name *any* two observations that were important in formulating the chromosome theory of inheritance

A2: The Sutton-Boveri Theory and merging of cytology and genetics. The patterns of inheritance of Mendel's particles (alleles) corresponded with observed movement of chromosomes during meiosis. Mendel's laws of (1) equal segregation of alleles into gametes & (2) independent assortment of different unlinked genes into gametes during meiosis are based on (1) separation of members of a homologous chromosome pair & (2) the independent movement of different homologous chromosome pairs.