

Chapter 2.2

2.1 Mendel's Experimental System

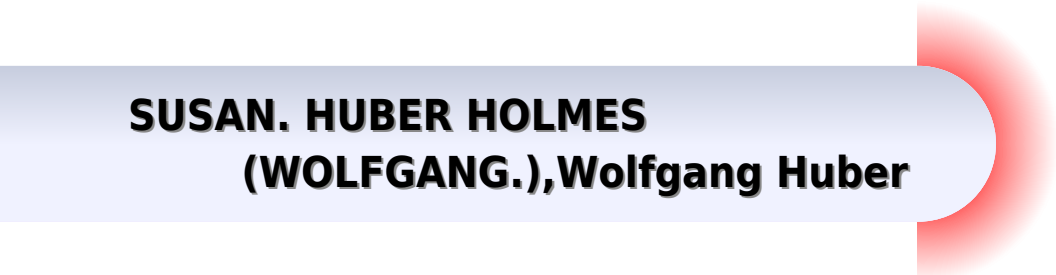
- Mendel's achievement in the transmission of traits from parents to offspring
- First use of statistical analysis in biology: Mendel first thought of the primary structure of the particular characteristic problem
- What does the Christian Church bring to science?
 - o Test hypothesis
 - o Mendel's character traits (dominant or recessive) and father stand together to form the traits observed in their offspring. Offspring's traits are independent between mother's and father's traits
 - o inheritance of acquired characters: claimed that traits present in parents are modified through use and passed onto their offspring in the modified form
 - o French hypothesis about predilection
- The Garden Plot formed as the first Mendel-Experiment in Genetics
 - o Mendel suggested: plants that is easy for research (Garden 2 is preferred) and because continuous stream from studying it both can be applied to study other species as well
 - o individuals were available that differed in easily recognizable traits, such as flower color or seed shape and Mendel could also control which parents were involved in mating
 - o other (unintended) Control factors
 - Space (traits are produced in given space in the trait reproduction structure)
 - Eggs are stable in the female reproductive structure
 - both father flower's pollen falls on the female reproductive organ of the same flower
 - Cross fertilization (technology) referred could prevent by removing the male reproductive organ and the pollen transfer pollen from whether plant given to the target flower to female reproduction
- What does Mendel's study?
 - o Seed shape, color and shape and color (flower color difference) and seed position and seed length
 - o Phenotypic characters traits of an individual
 - o Pure-line individuals produce offspring identical to themselves when they are self-fertilized or crossed with another individual of the same line (population)
 - o hybrids: offspring from crossings between two breeding parents that differ in one or more traits

2.2 Mendel's Experiments with a Single Trait

- Statistical generation: study used in an initial experimental study
- Offspring is offspring in the P's generation
- The International Code

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(WOLFGANG.), Wolfgang Huber



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Biology: The Easy Way Gabrielle I. Edwards, Cynthia Pfirrmann, 2019-08-06 A self teaching guide for students Biology The Easy Way provides easy to follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Biology The Easy Way covers The Cell Bacteria and Viruses Fungi Plants Invertebrates Homo Sapiens Biotechnology And more *Modern Biology* Albert Towle, 1989 **Principles of**

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Modern Biology

James Howard Otto, Albert Towle, 1977

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Macomber, 1997-12-23 Clear accessible coverage of modern NMR spectroscopy for students and professionals in many fields of science Nuclear magnetic resonance NMR spectroscopy has made quantum leaps in the last decade becoming a staple tool in such divergent fields as chemistry physics materials science biology and medicine That is why it is essential that scientists working in these areas be fully conversant with current NMR theory and practice This down to basics text offers a comprehensive up to date treatment of the fundamentals of NMR spectroscopy Using a straightforward approach that develops all concepts from a rudimentary level without using heavy mathematics it gives readers the knowledge they need to solve any molecular structure problem from a complete set of NMR data Topics are illustrated throughout with hundreds of figures and actual spectra Chapter end summaries and review problems with answers are included to help reinforce and test understanding of key material From NMR studies of biologically important molecules to magnetic resonance imaging this book serves as an excellent all around primer on NMR spectroscopic analysis

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