Gene: An Evolving Concept

- The laws of inheritance were described.
- The nucleic acids were isolated and studied by Friedrich Miescher.
- Flowers Terminal Axial or Yellow Seeds Green or Yellow pods

1865 1900
| | |
1910 1927
| | |
1941 1944 1953 1958

- Alfred Sturtevant constructed the first genetic map.
- Griffith’s experiment demonstrating transformation suggested a principle.
- The rediscovery of Mendel’s work by Carl Correns, Erich von Tschermak- Seyburg, and Hugo De Vries prompted the foundation of genetics.
- Studies in Drosophila melanogaster suggest a linear model of genes on chromosomes, like ‘beads on a string.’
- Waller and Morgan suggest a linear model of genes.

- One gene, one enzyme; Then one gene, one protein.
- The DNA double helix structure was solved.
- The ‘Central Dogma’ of molecular biology was proposed by Francis Crick.
- The first sequence of a gene, COX1, BAMH, was determined.

- The first large-scale gene function analysis using gene expression in yeast.
- The first appearance of the word ‘gene,’ derived from the Greek genos or genus.
- The definition of a gene by Johannsen.
- The gene as a discrete heredity unit.
- The gene as a physical molecule.
- The gene as a transcribed code.
- The gene as an annotated genomic entity.

- The genetic code was deciphered by Marshall Nirenberg, Har Gobind Khorana, and others.
- The first genetic map was reported by Beadle and Tatum.
- The first linkage map was constructed by Sturtevant.
- The first large-scale DNA sequencing was accomplished by Sanger and others.

- The first large-scale DNA synthesis was determined.
- The first large-scale DNA replication was observed by Jacob and Monod.
- The first large-scale DNA transcription was demonstrated.

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