

Davson-Danelli vs Singer Nicholson membranes

Luis Pasteur vs Francisco Redi - Spontaneous Generation

Friedrich Wohler - Vital Force

Watson & Crick - DNA structure

Meselson & Stahl - Semi Conservative replication

Taq polymerase - PCR machine

Cystic Fibrosis, Sickle Cell, Hemophilia, Huntingtons, Color blindness, PKU

John Cairns' Technique - Radiography DNA pictures (DNA selfies)

Gregor Mendel - Inheritance laws

Alice Stewart & Marie Curie - Radioactive materials X-ray babies

Karen Oberhauser Bt corn - Monarchs and GMO corn

Charles Darwin, Wallace, and Dawkins (species & fossils)

Denise Seliskar saltmarsh cordgrass - Relocated plants

Carl Linneaus (ICZN & ICBN) - Binomial Nomenclature

Plant phylum (bryophytes, Filicinophyta, Conifers, Angiosperms)

Animal Phylum (Porifera, Cnidaria, Platyhelminthes, Annelida, Mollusca, Arthropoda, Chordata)

Types of chordates - mammals, birds, reptiles, amphibians, fish

William Harvey - Blood flow & embryology

Flemming, Chain & Florey - Penicillin

Linus Pauling Vitamin C

#### HL ONLY

Rosalind Franklin & Maurice Wilkins X-Ray Diffraction DNA

Hershey & Chase - Viruses & Bacteria to prove DNA is molecule of heredity

Protein Structure

Calvin - Lolipop apparatus, radioactive carbon to show carboxylation in photosynthesis in algae

Using aphid mouths (stylets) to study phloem contents in

Fritz Went & Francis Darwin discovery of what was eventually determined to be Auxin in plants

Thomas Morgan - Used fruit flies to identify non-Mendellian traits (linked and sex-linked genes)

Hardy Weinberg - Quantifies allele concentrations

Edward Jenner - Small Pox vaccine, compare to current testing methods

Bohr shift - O2 curve