



INTERMEDIATE

Biology : Molecular Basis of Inheritance

Hand Notes For JEE Mains, Advance, NEET UG, Class 11 & 12 etc...

Hand Notes

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MOLECULAR BASIS OF INHERITANCE

* SCIENTISTS IN GENETICS

- ① FRIEDRICH MEISCHER :- Isolated Nucleic Acid in 1868 from nuclei of pus cells. and coined the term "NUCLEIN".
- ② ALTMANN :- coined the term 'nucleic acid' in 1889.
- ③ GRIFFITH :- Discovered Transformation principle.
- ④ McCleod, MacCarty, Avery :- Verified Transformation principle.
- ⑤ HERSHEY AND CHASE :- Bacteriophage Infection.
- ⑥ LEDERBERG AND TATUM :- Bacterial conjugation.
- ⑦ ZINDER AND LEDERBERG :- Transduction expt.
- ⑧ WATSON, CRICK & M-WILKINS :- Double helix model of DNA.
- ⑨ ERWIN CHARGAFF :- Chargaff rules.
- ⑩ WATSON AND CRICK :- Semiconservative method of DNA conservation.
- ⑪ KORNBERG :- discovered DNA polymerase.
- ⑫ MESELSON & STAHL :- Experimental proof for scm of DNA replication.
- ⑬ GEORGE GAMOW :- discovered genetic codons.
- ⑭ HARBOLD KHORANA } Experimental verification of genetic codons.
MARSHALL NIRENBERG }
- ⑮ FRANCIS CRICK :- Identified tRNA as the adapter molecules.
- ⑯ JACOB AND MONOD :- Lac operon concept.
- ⑰ FREDRICK SANGER :- AMINO ACID SEQUENCES IN PROTEINS
↳ automated DNA sequencing.