Genomics and Proteomics Nomics means understanding computations To be used in new computing device. 37.5 toillion cells 3 billion base-paus Adenime - Purin mucleotide base C5 H5N5 Cytosine (c), Guanine (G) Thymine (I) C5 H6 N202 C545N30 C5 H5 N50 Purine (A,G) Pyramidene (T, c) Every base is added with a one sugar and phaspherons

Neucleofide: Base + Sugar

Neucleotide Base + Sugar + Phosphous

2 Kinds & cells: Eucarijates, Procasyates Evolved. Primitive Poimitive

Mitochandria -> Power house.

Sugar , quality checks are personned here.

Protein Synthesis: O Enzymes

Harmones Insulin, Thyoold Glands: Pitutary gland Pineal gland

Protein Synthems Endymes: create at a place and used at same place Harmones: Corested at one place and work at different place RNA: Ribo Neuclic Acid DNA: Deoxysibo Neudic Acid. T is replaced by U (Voaci) TATGCCAG -> UAUGCCAG Amino Aced: 3 bit sequence / Foral 20 Excluding stop. Start codon: AUG -> Mithionine Pretein Stop Codom: UAG, UGA, UAA Total 64 triplet Codes out of which 4 are start, stop codes. Male DNA - 20,000 genes. Y chromograme -> 100 Proetein Cading gener. X Chromosome > 900 Female DNA - Upt 23,000 Seven-98% DNA refers to JUNK DNA. non-Coding Steps in Protein Synthesu; 1 Bransgription @ Tocurstation c first, then I comes y mRNA m Stands for messanger mRNA comes out of orticleurs doing Ribosome. Kibobomos are madeup of TRNA tRNA - I transfer RNA. - Drings complimentary bases 3 bases at a patime. (codon & 18 Anti Codon). -> Peptide bond? bond between two generated Amino Audo -> Protein tolding and Additional modification - Central Dogma refer to blow of genetic information in cells as