



Evolution

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2012 : L.H.C



'Higgs Bason' = God's Particle.

I.A.U = International Astronomical Union.



M.P.C = Minor Planet centre.



2006 \Rightarrow Pluto \Rightarrow 134300



Galaxy milky way / Akashganga.
= 300 ± 100 Billion Stars.

Total Galaxies \Rightarrow 100000 Million.



During Evolution pyrimidine form first then purine.

(A) Chemical Evolution / Artificial Synthesis :-



Atomic Stage \Rightarrow C, N, H, O etc.



Molecular Stage \Rightarrow $H_2O(g)$, NH_3 , -----



Early organic stage \Rightarrow CH_4 , HCN , -----

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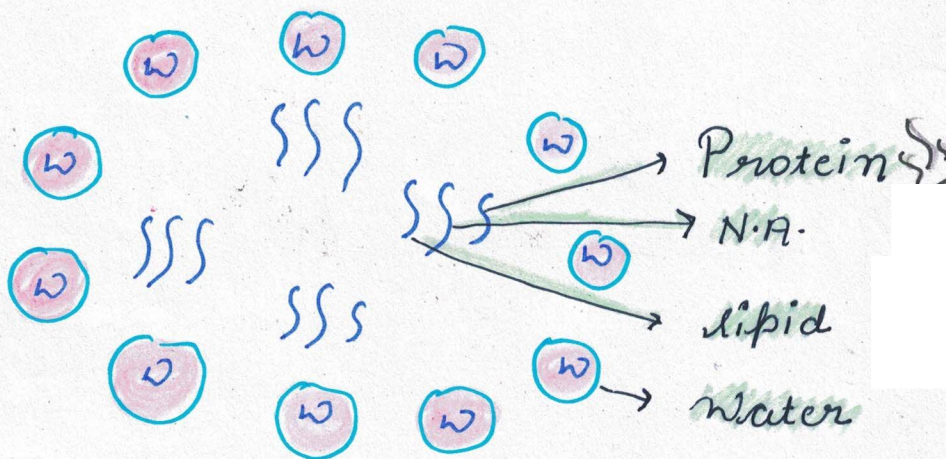
🌸 Simple organic compound:- A.A.....

🌸 complex organic compound:- A.A..... Protein

Protein ---- N.A.

Sugar ---- carbohydrate.
----- lipid.

(B) Biological Evolution



SSS



Due to continuous exposure of UV rays surface of nucleic acid become nucleogenous. So other biomolecules (protein, lipid, carbohydrate) attached with it, now due to zwitter ionic property of protein they attract water molecules so small cluster like colloid drops formed in primitive oceans origin called them concentrates.

SSS

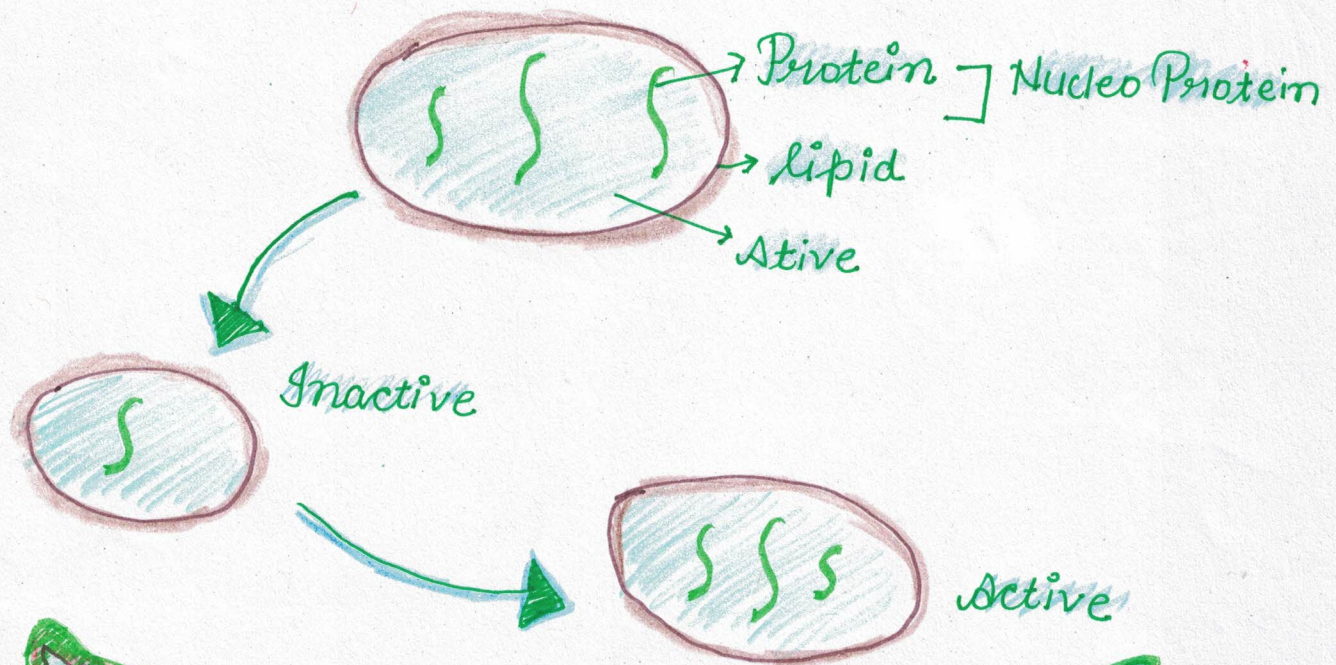


During Evolution first Proteins which were formed in primitive oceans was non-enzymatic and first nucleic acid

was also non-replicable.

Later Enzymatic property in protein and replication property in nucleic acid came by mutation.

📖 Coabiants



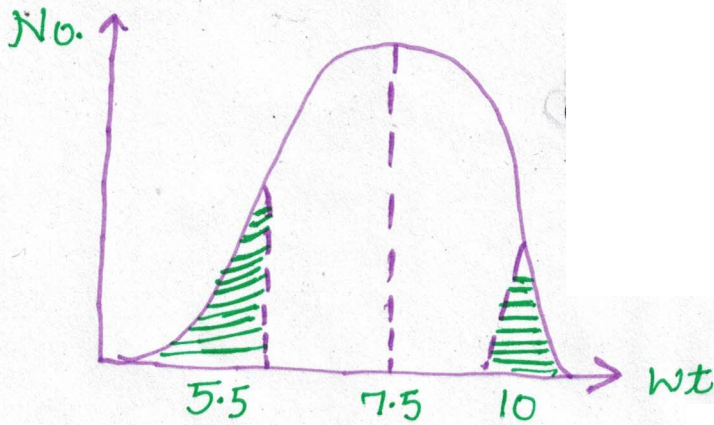
Descent With Modification

🎀 All Internal Organs of Vertebrates which perform same function are always homologous.

🎀 In all birds wings are modification of fore limbs Except penguin. In Penguin

In penguin flipper are made up of skin and radial bones.

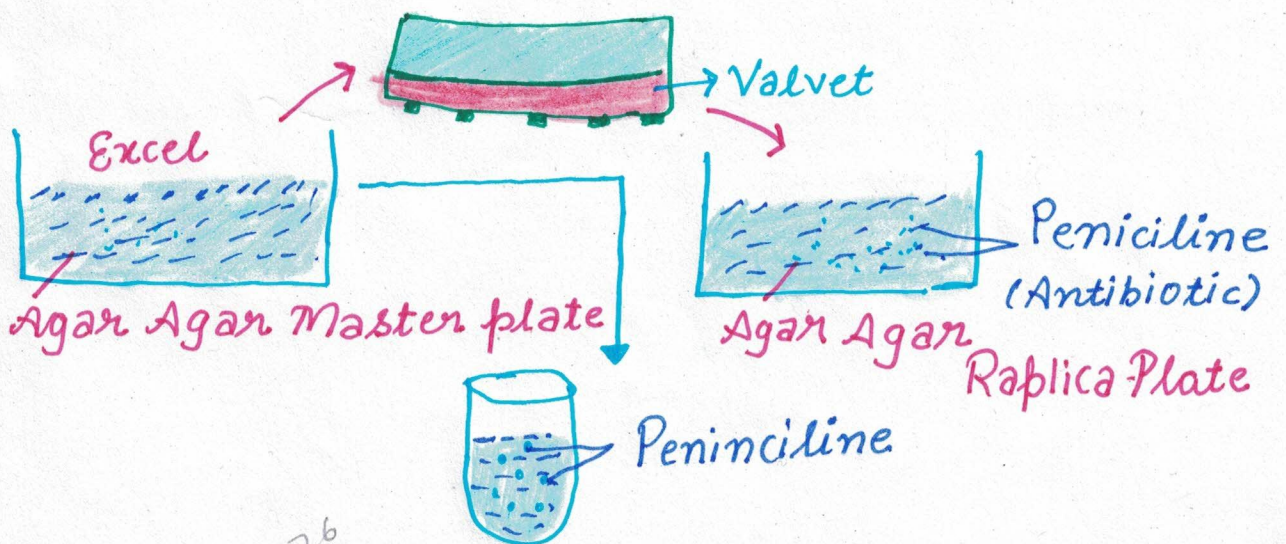
Ostabilising



Directional :- Most common type of natural selection.

All Artificial selections are always directional

Disruptive :- Most rarest type of natural selection but most important in organic evolution because new species formed very soon.



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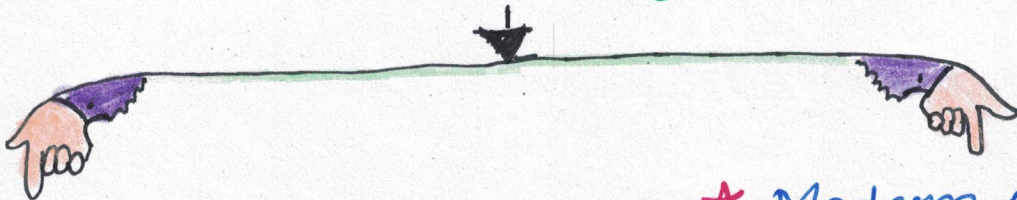
Ladenberg's replica-plate Experiment:-



Propliopithecus

Aegyptopithecus

Procrual / Dryopithecus



- ★ Ramapithecus
- ★ Shivapithecus
- ★ Kenyapithecus
- ★ Australopithecus
- Prognathus
- ☺ Homo-habilis
- ☺ Homo-Eractus
- ☺ Homo-Sapiens → orthoganthus.

- ★ Modern day Apes
- ☺ chimpanzee
- ☺ Gorilla
- ☺ Orington
- ☺ Gibbon.

CRANIAL CAPACITY

That Volume of Skull in which brain is situated and it is measured in cubic per centimeter.





orthognathus



Prognathus



Ramapithecus

Most Primitive ancestor of human
ancestry line.

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