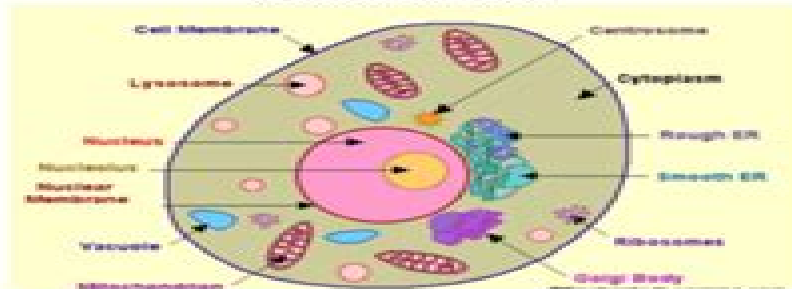


LEWENSWETENSAP

GRAAD 12

VRASSTEL 2

DIE BOU VAN 'N SEL



WAAR KRY ONS DNA?

- In die selkern (op die chromosome as GENE)
- In die mitochondria (Mitochondriale DNA)
- In chloroplaste by plante

WIE HET DNA ONTDEK?

- Wilkins en Franklin het die struktuur van DNA bestudeer.
- Rosalind Franklin het 'n foto geneem wat gedui het dat die DNS patroon 'n heliks vorm is.
- Watson en Crick het getoon dat die rugbrieg van DNA uit fosfate en suikers bestaan en dat die twee stringe DNA gepaar is met mekaar.
- Watson, Crick en Wilkins het 'n nobelprijs vir hulle werk ontvang.
- Rosalind Franklin is dood voordat sy die toekennning kon ontvang.

Adenien paar
altyd met
Timien



Guanien paar
altyd met
Sitosien

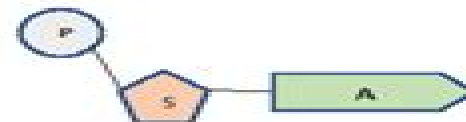
NUKLEIENSURE

NUKLEIENSURE = DNA of RNA

Twee soorte = DNA of RNA

MONOMERE (doublokkies) = NUKLEOTIEDE

NUKLEOTIED = Fosfaat + suiker + stikstofbasis



Hoeveel stikstofbasiess is daar?

- 4
- Adenien
- Guanien
- Sitosien
- Timien (slegs op 'n DNA molekule)

Watter suiker word waar gevind?

- Die suiker in DNA is DEOKSIRIBOSE SUIKER.
- Die suiker in RNA is RIBOSE SUIKER

Wat is die funksies van DNS?

- Vorm gene wat draers is van oorerflike inligting.
- Bevat gekodeerde inligting vir PROTEÏENSINTESE

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R Barnett



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