



UiO : Det matematisk-naturvitenskapelige fakultet

Concept training and pedagogical use of Mentimeter

Cathrine W. Tellefsen, Fysisk institutt
(Tone F. Gregers, Institutt for biovitenskap)

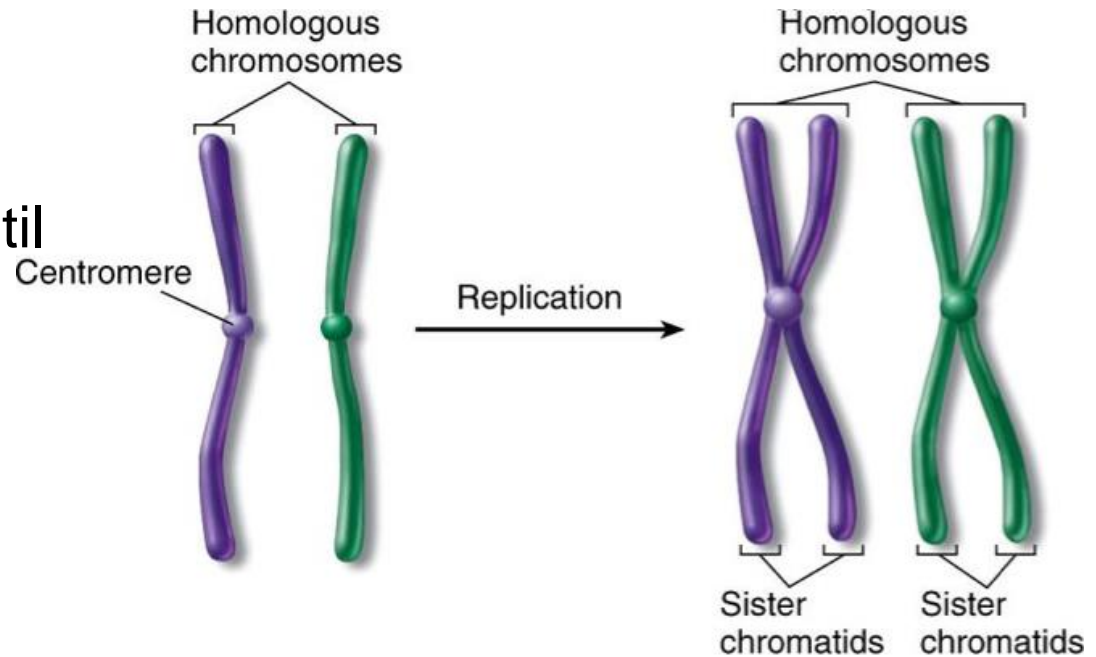


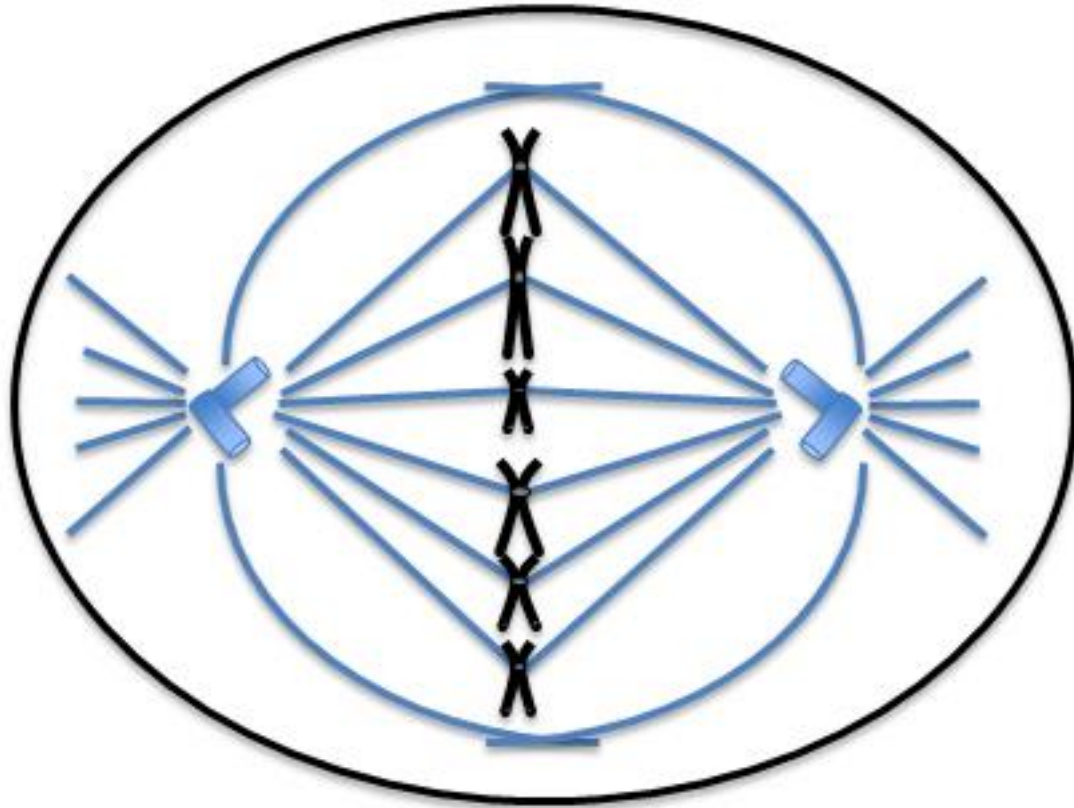
Mentimeter

Go to www.menti.com and use the code **79 69 35**

Bruk av mentimeter for pre- og post test

- Tema: celledeling
- Mye forvirring knyttet til
 - Kromosom
 - Kromatid
 - Søsterkromatid
 - kromosompar



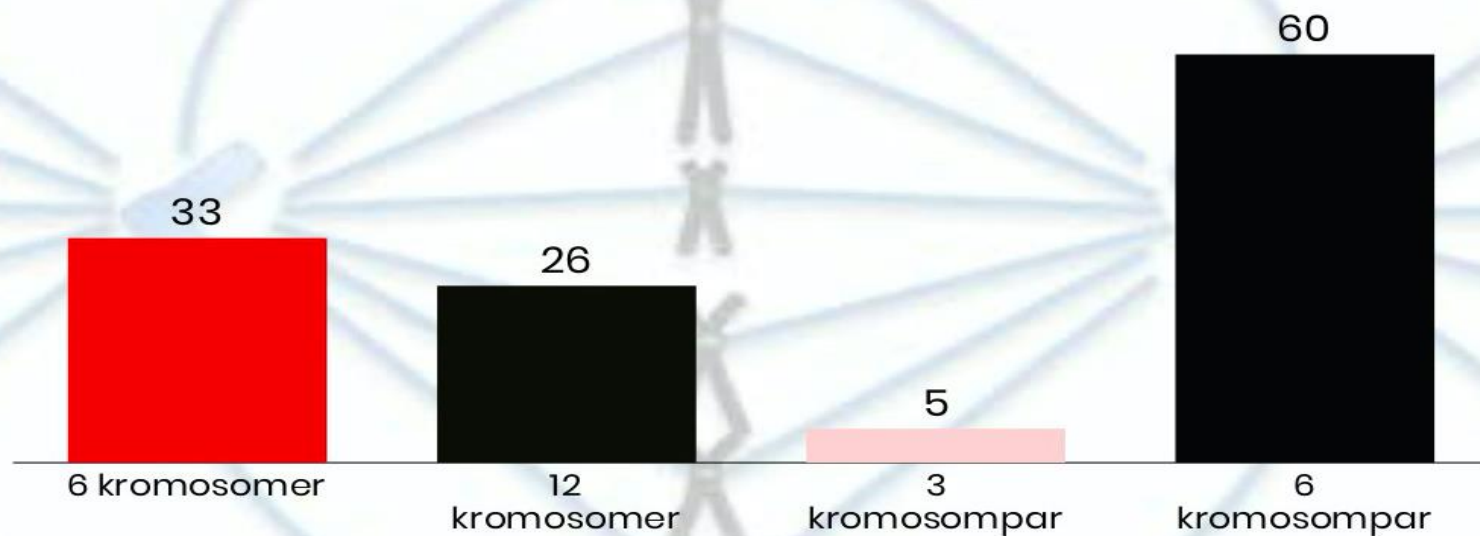


Hva ser du her?

- A) 6 kromosomer
- B) 12 kromosomer
- C) 3 kromosompar
- D) 6 kromosompar

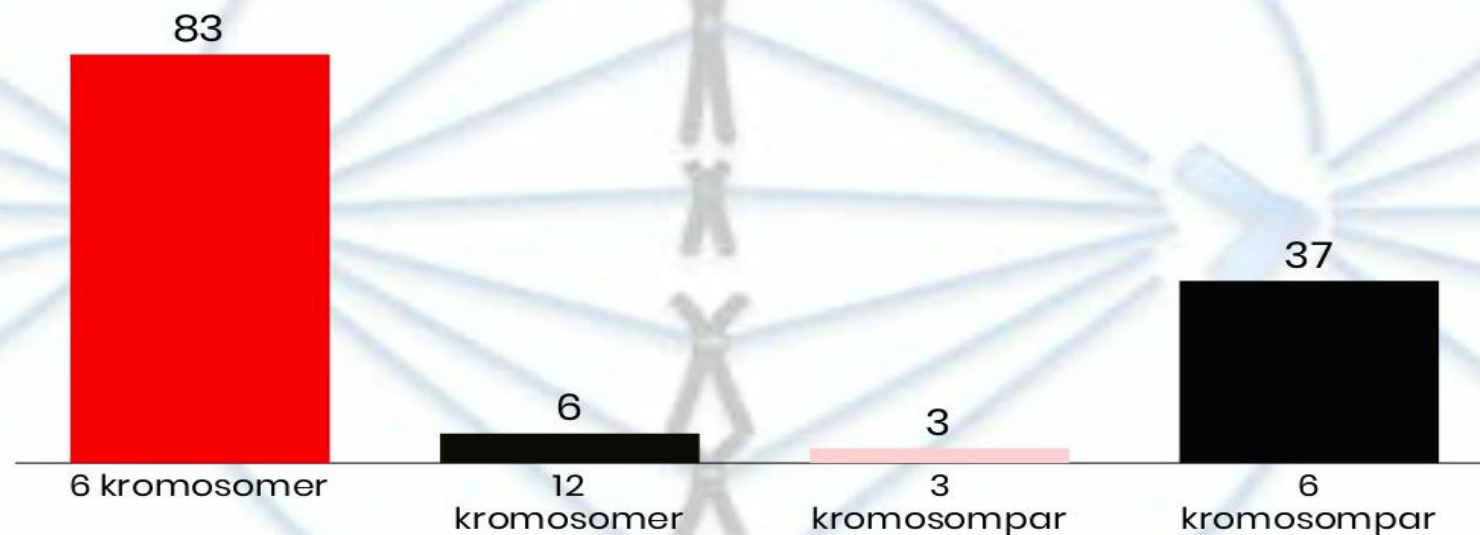
Mentimeter før

Cellen på figuren befinner seg i metafase II. Cellen har:



Mentimeter etter

Cellen på figuren befinner seg i metafase II. Cellen har:



Concept training with Mentimeter

Not like Alias because...

no time constraint

learning and terminology in focus

Go to www.menti.com and use the code **94 51 43**

Why a new code?

[Mer om Mentimeter](#)



Analogue concept training

- Concepts on the screen
- Pull from an envelope/a cup
- Get to know each other - Alias

Genekspressjon

Transkripsjon

Translasjon

mRNA

tRNA

rRNA

Ribosom

Primærtranskript

Kodon

Antikodon

Templattråd

Leseramme

RNA-polymerase

Promotor

Terminator

TATA-box

Transkripsjonsfaktor

RNA-prosessering

Poly-A-hale

RNA-spleising

Ekson

Proteindomene

Aminoacyl-tRNA-syntetase

Wobble

Elongering (av translasjon)

Terminering (av translasjon)

Signalpeptid

Signal recognition particle

(SRP)

(Signalgjenkjenningsspartikkel)

Polyribosomer

Mutasjon

Punktmutasjon

Nukleotidpar-substitusjon

Silent.mutasjon

Missense.mutasjon

Nonsense.mutasjon

Rammeskiftmutasjon

(frameshift)

Mutagener



Concept training in groups of 4

- Facilitating the discussion
- Comittment to the task
- Help with the social part...



Regroup

Wiggert	Hannah
Trond W.	Christiaan

Doris	Vetle
Line	Kevin

Teffo	Ina
Wanja	Kgashane

Dorthea	Ayanda
Harchna	Sandile

Frida	Khanyisa
Themba lethu	Kristine

Discussions

How can you check if your nuclear data may be "crucial" for astrophysics?

How can astrophysical observation techniques give data for nucleosynthesis?

Describe a task you liked because you learned. Why did you learn?

How can we help students dare to talk about stuff they don't know yet – talk to learn, not to show off?

Think-pair-share

- Think-pair
- Pair-share

- Think-share?

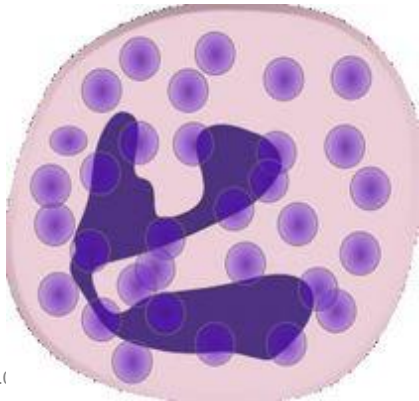
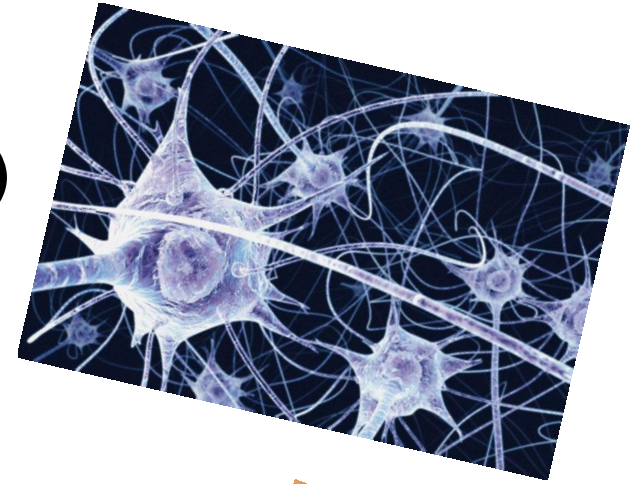
Assertion

The largest known prime number
consists of 22 million digits

Assertion

A human being produces
17 million new cells
every second!

Hvem skal ut? (The odd one out)



Hvem skal ut?

