

Biologia

Intensivo

Frente 1

DIVISÃO CELULAR (AULA 8)

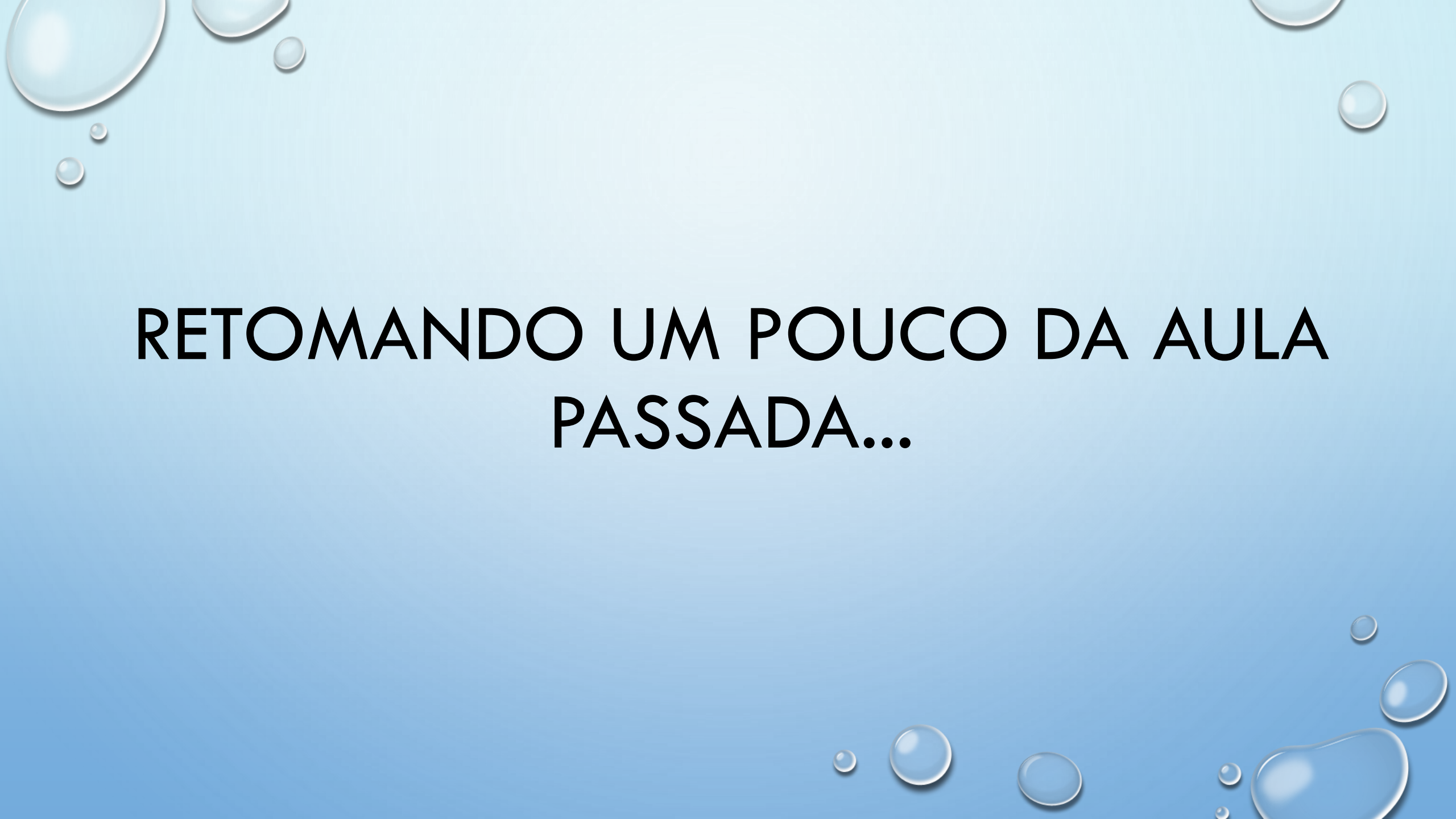
REPLICAÇÃO DO DNA, MITOSE E MEIOSE

Jimmy
jsnikaido@gmail.com

O QUE TEM PRA HOJE?

Menu

- REPLICAÇÃO DO DNA
- MITOSE
- MEIOSE

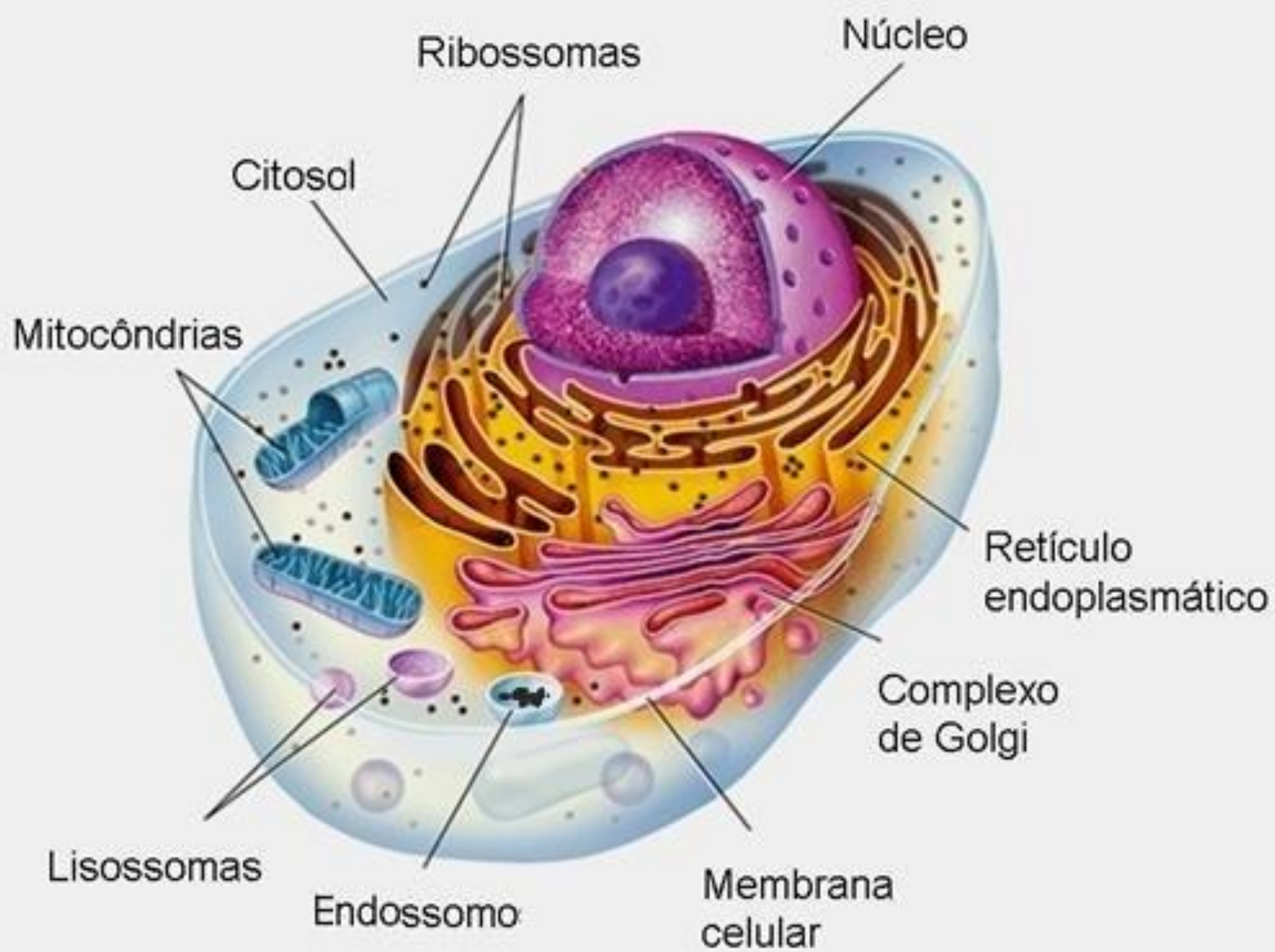
The background is a light blue gradient. In the top-left and bottom-right corners, there are several realistic water droplets of various sizes, some overlapping, with highlights and shadows giving them a 3D appearance.

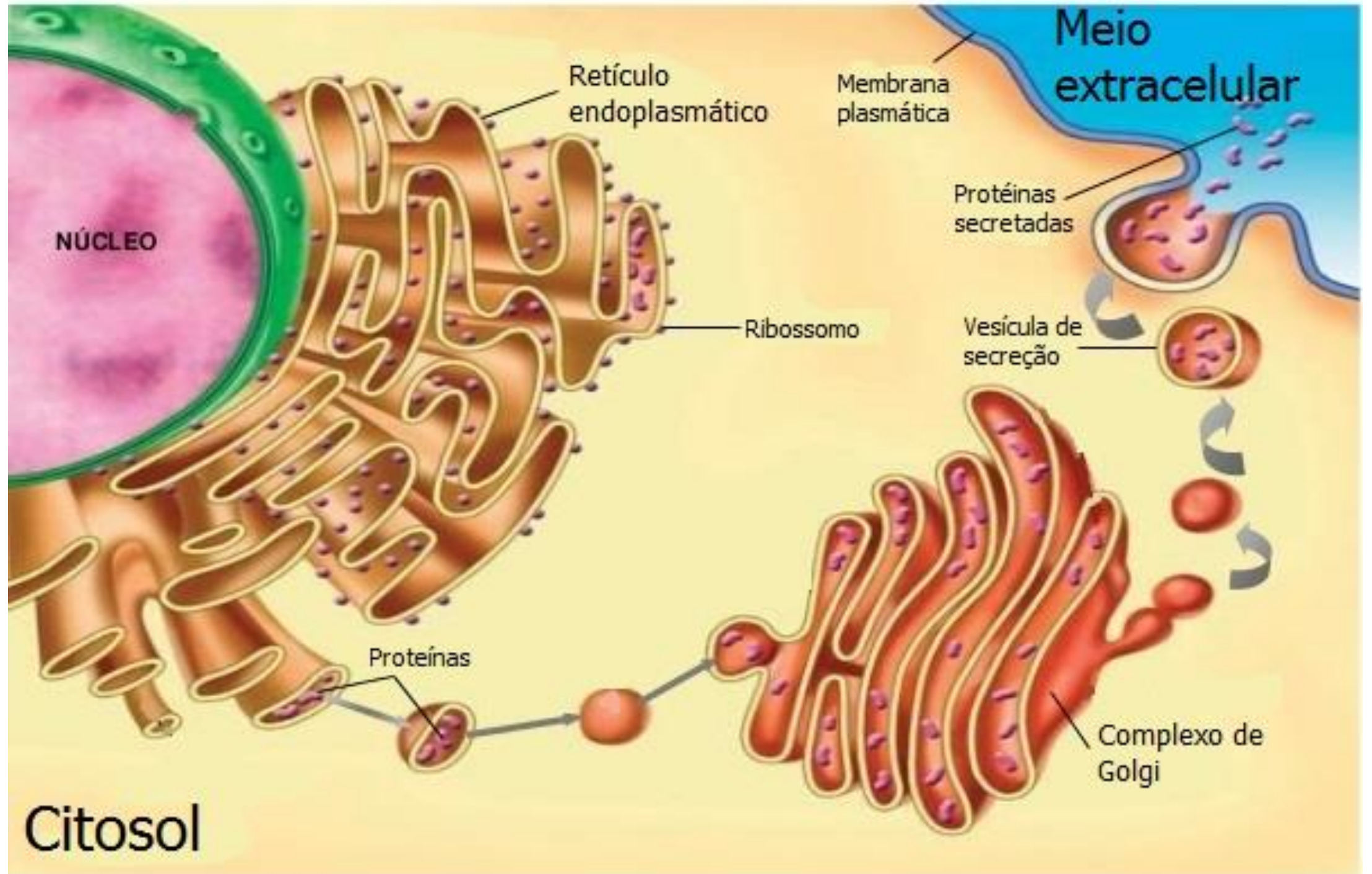
**RETOMANDO UM POUCO DA AULA
PASSADA...**

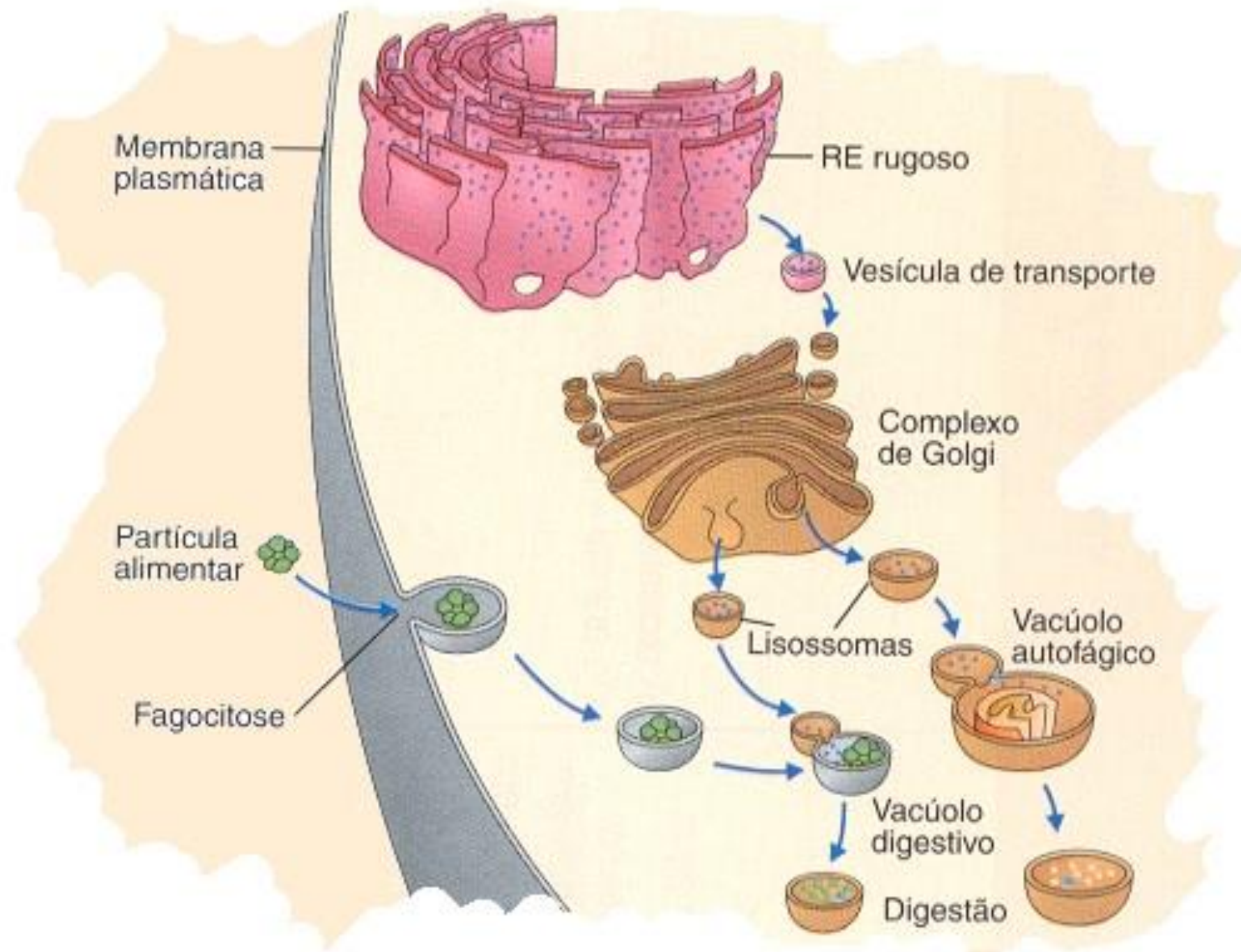
Vídeo síntese proteica:

<https://www.youtube.com/watch?v=gG7uCskUOrA>







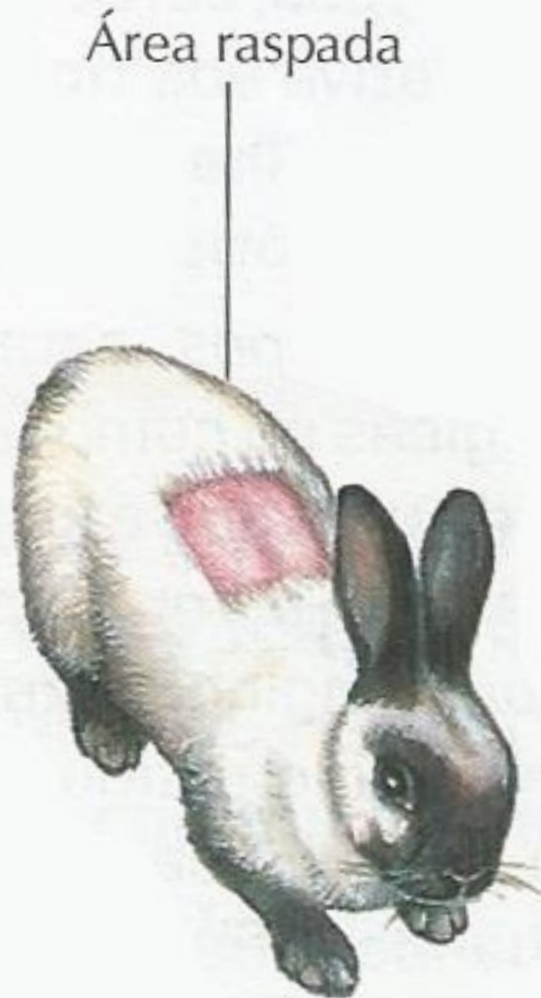


ADIANTANDO ALGUNS CONCEITOS

- **Gene** – sequência do DNA responsável pela síntese de uma molécula de RNA
- **Alelos** – versões de um mesmo gene
- **Genótipo** – composição genética de um indivíduo (o conjunto de seus alelos)
- **Fenótipo** – características de um indivíduo oriundas da interação entre seu genótipo e o meio em que está inserido

Interação genótipo - ambiente

JURANDIR RIBEIRO



Crescimento de pelos pigmentados na área raspada

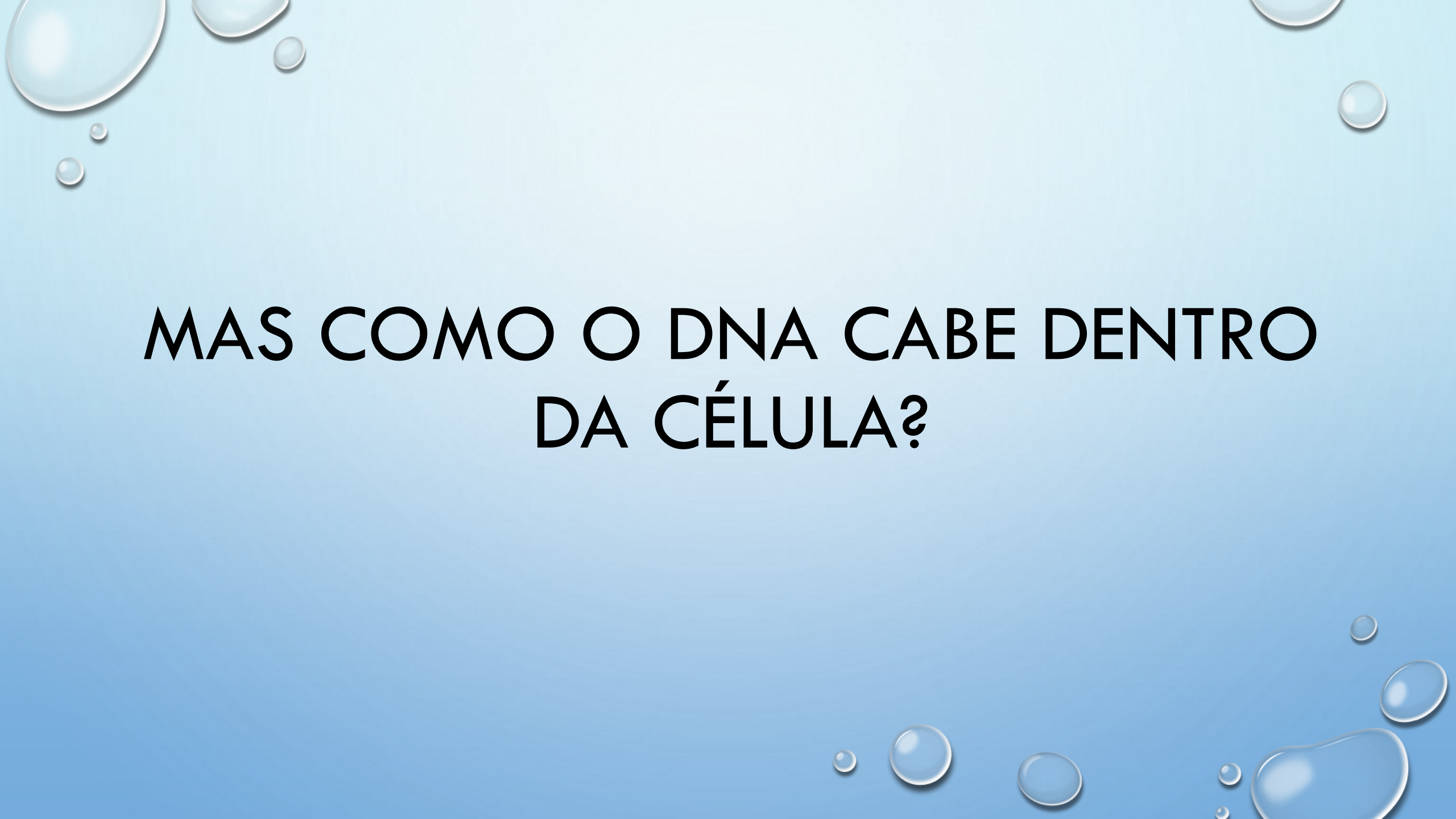


**E QUANTAS LETRAS(PARES DE BASE)
TEM NOSSA RECEITA(GENÓTIPO)?**

E QUANTAS LETRAS(PARES DE BASE)
TEM NOSSA RECEITA(GENÓTIPO)?

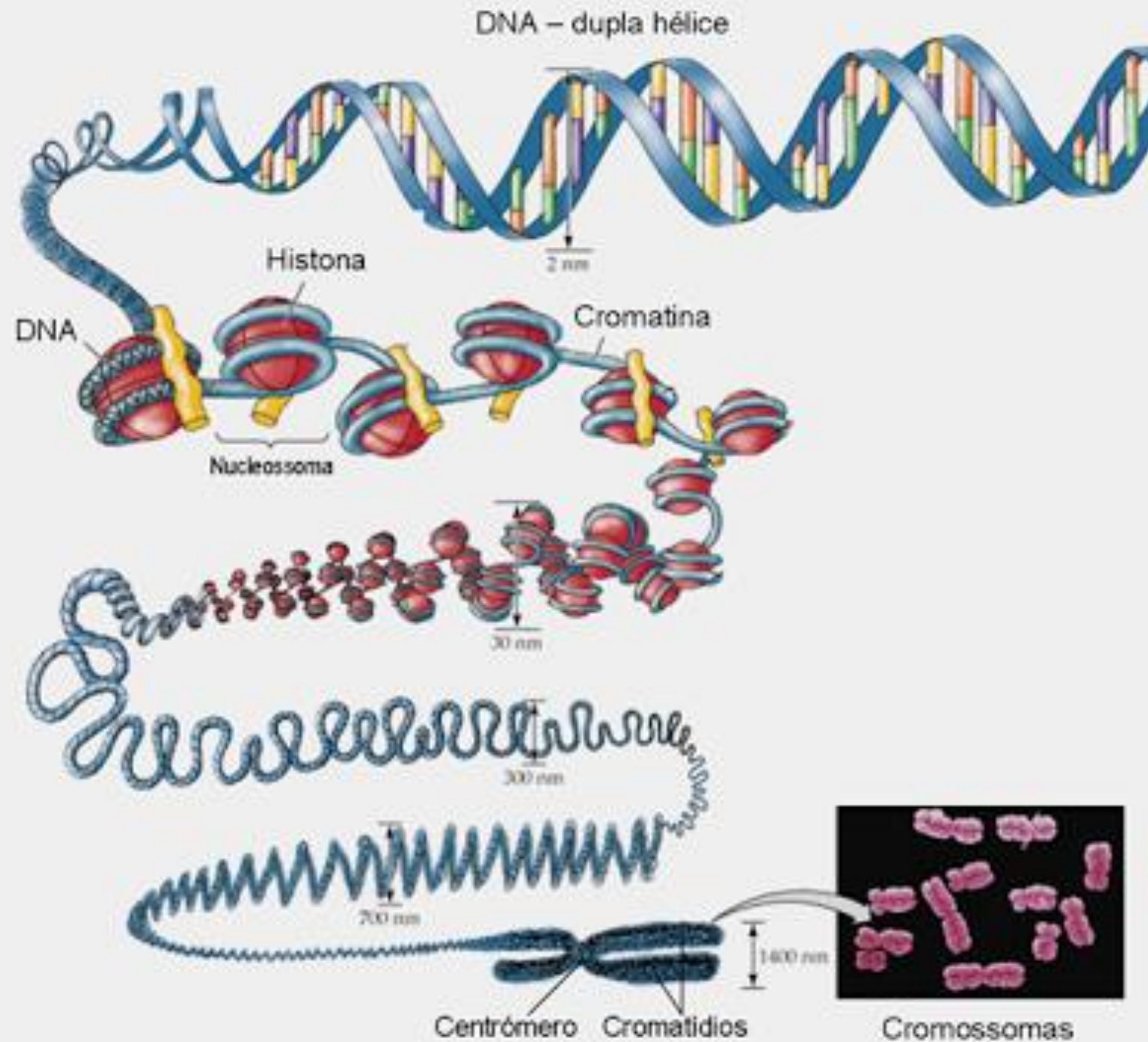
6 000 000 000



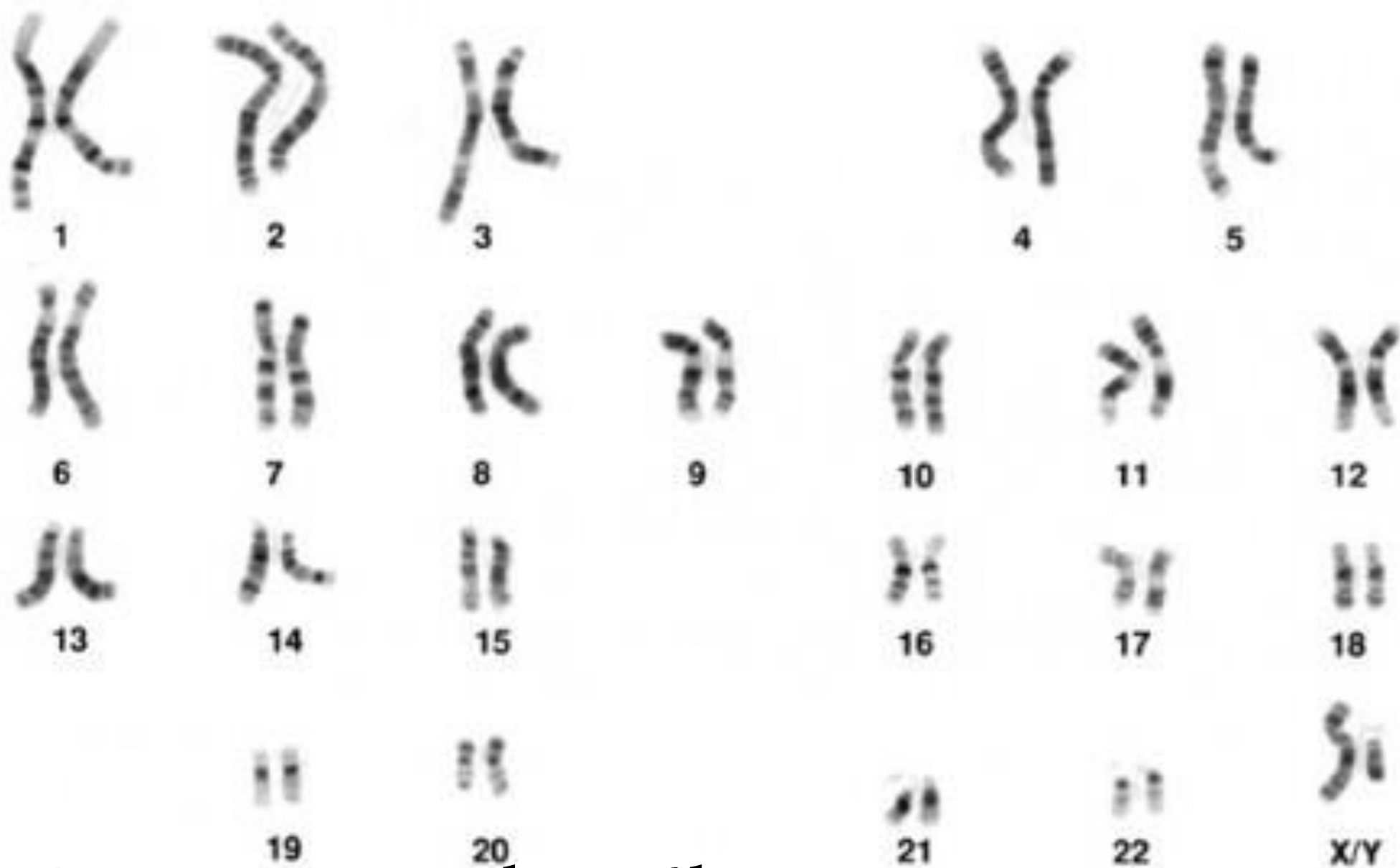
The background is a light blue gradient. In the top-left corner, there are several realistic water droplets of varying sizes, some overlapping. In the bottom-right corner, there are more water droplets, including a large one and several smaller ones. The text is centered in the middle of the image.

**MAS COMO O DNA CABE DENTRO
DA CÉLULA?**

O DNA pode
apresentar
diferentes níveis
de condensação



Cromossomos humanos

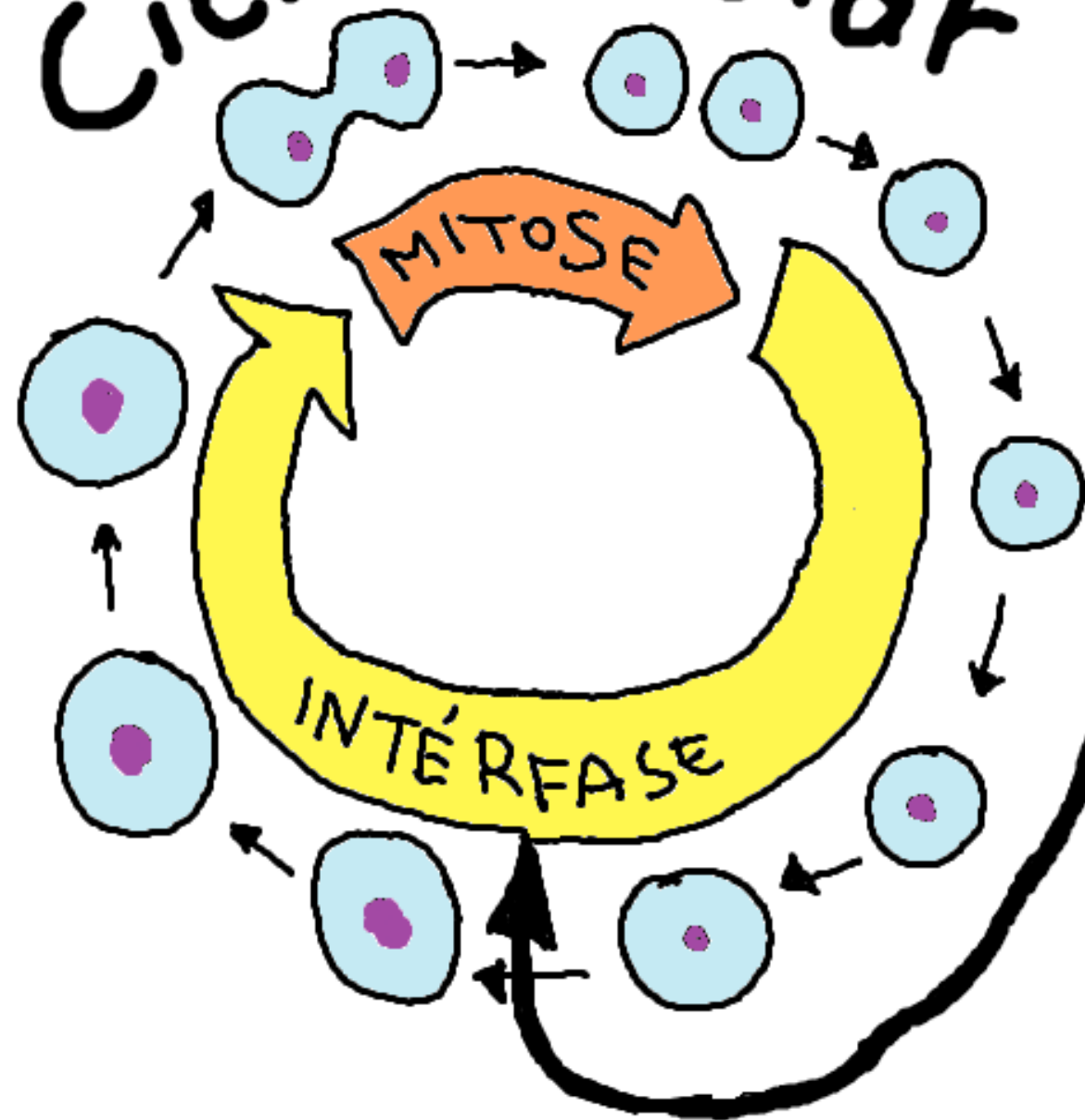


- Cromossomos homólogos – cromossomos que forma pares, apresentando, em geral, os mesmos genes e o mesmo tamanho

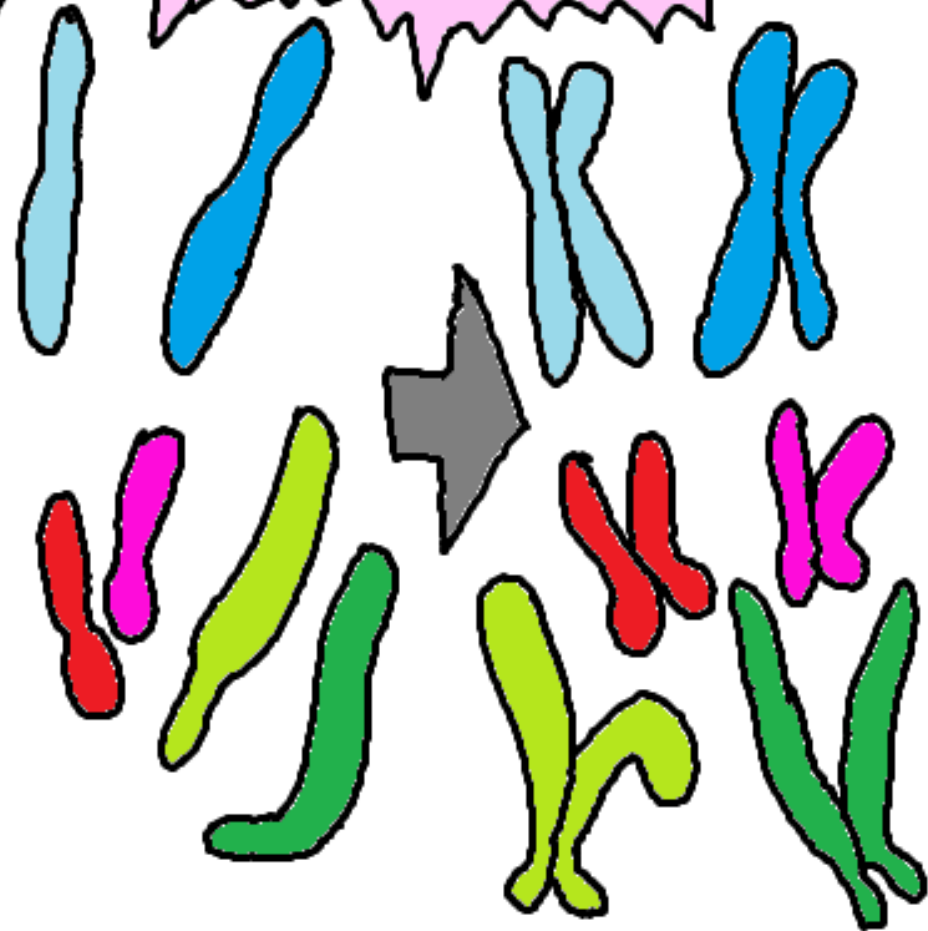


**MAS E QUANDO A CÉLULA SE
MULTIPLICA?**

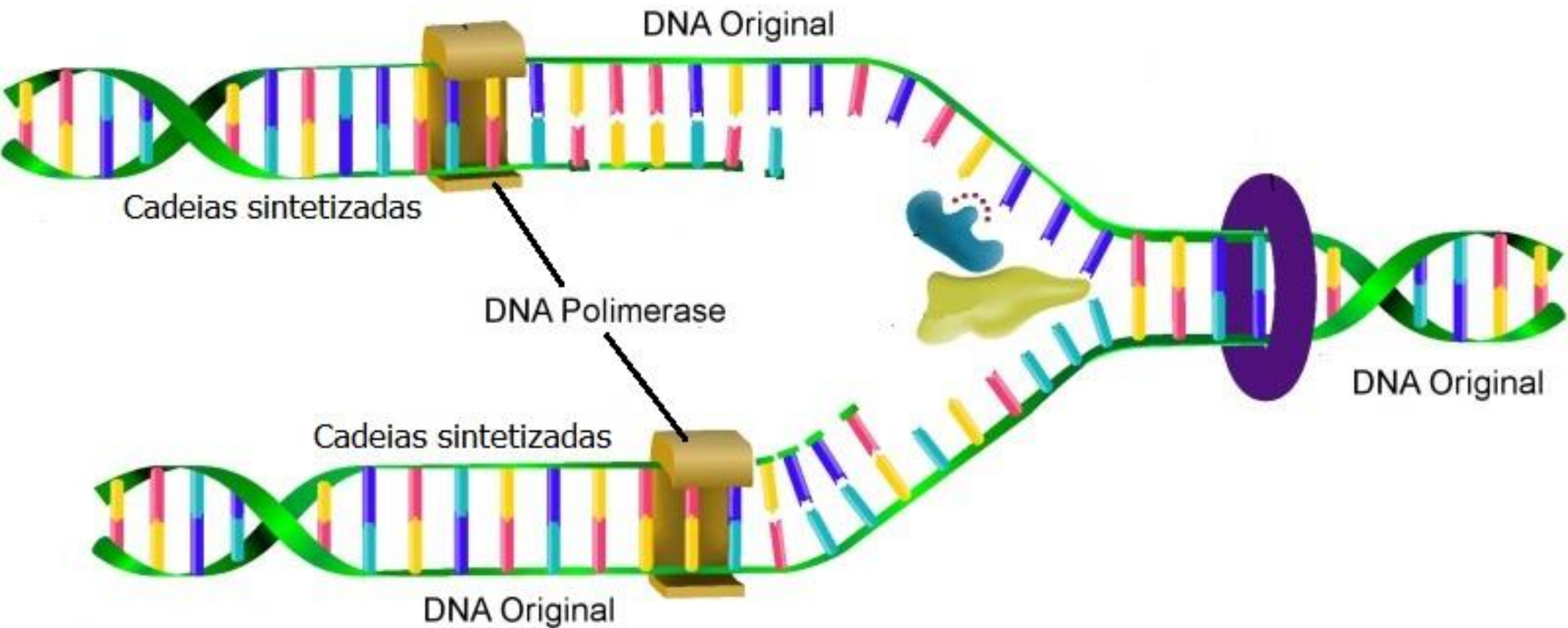
Ciclo celular



Cromossomos são duplicados

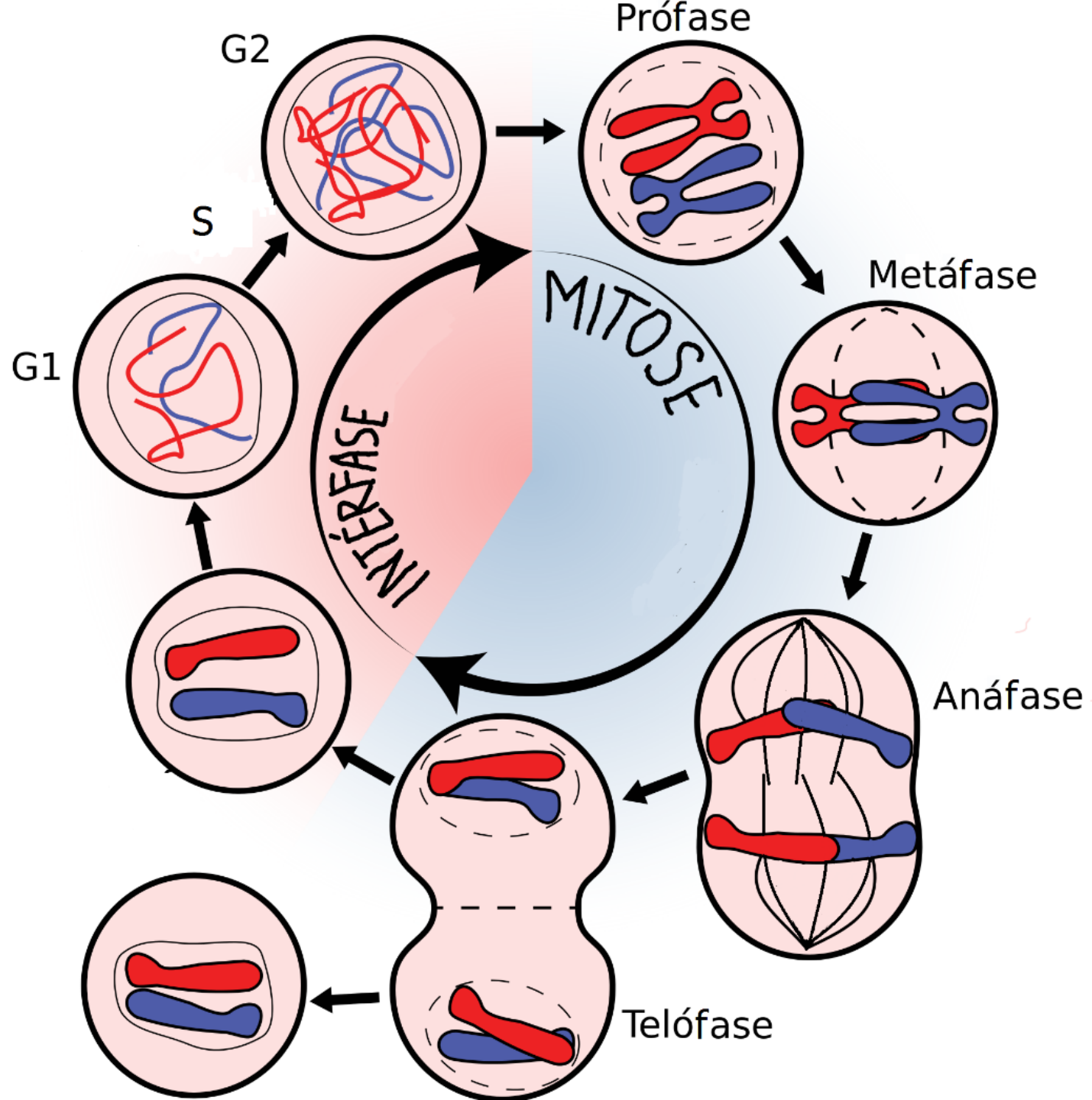


Replicação do DNA

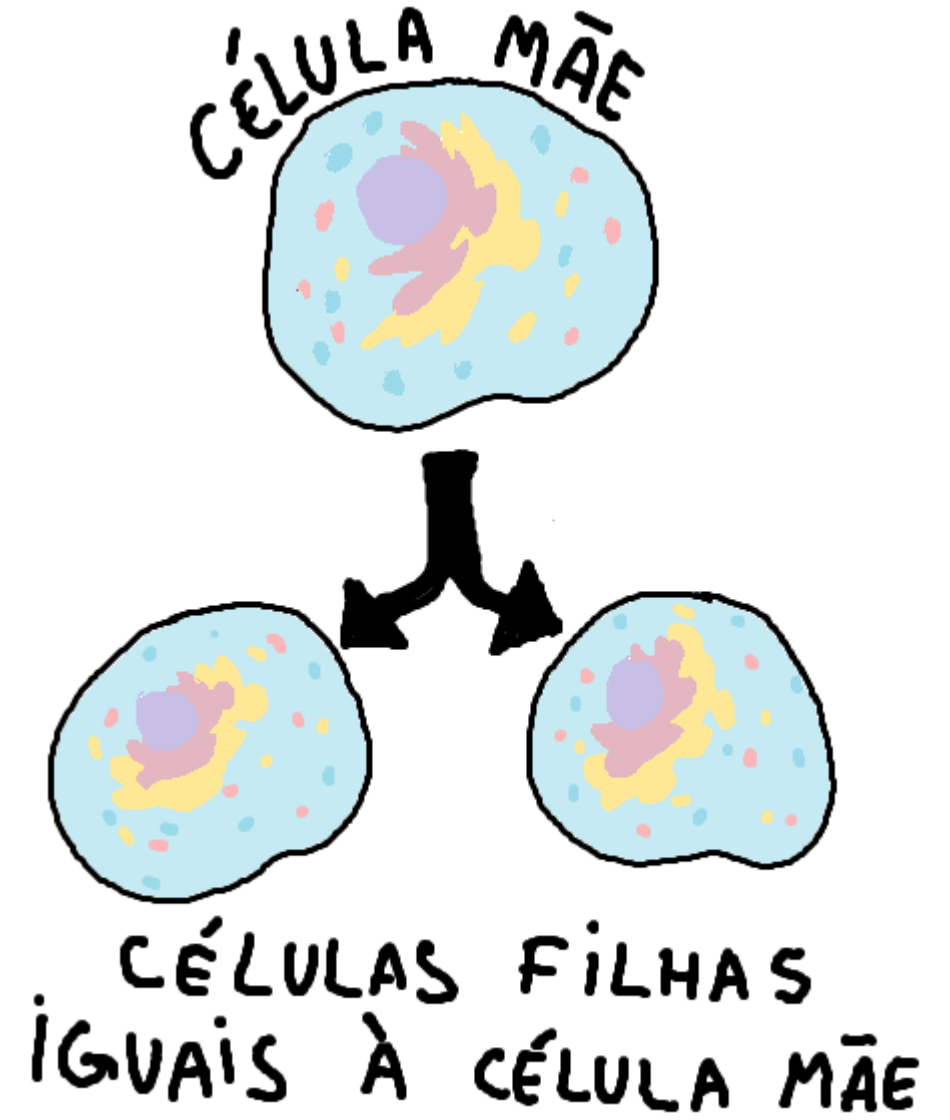


Replicação do DNA





Mitose

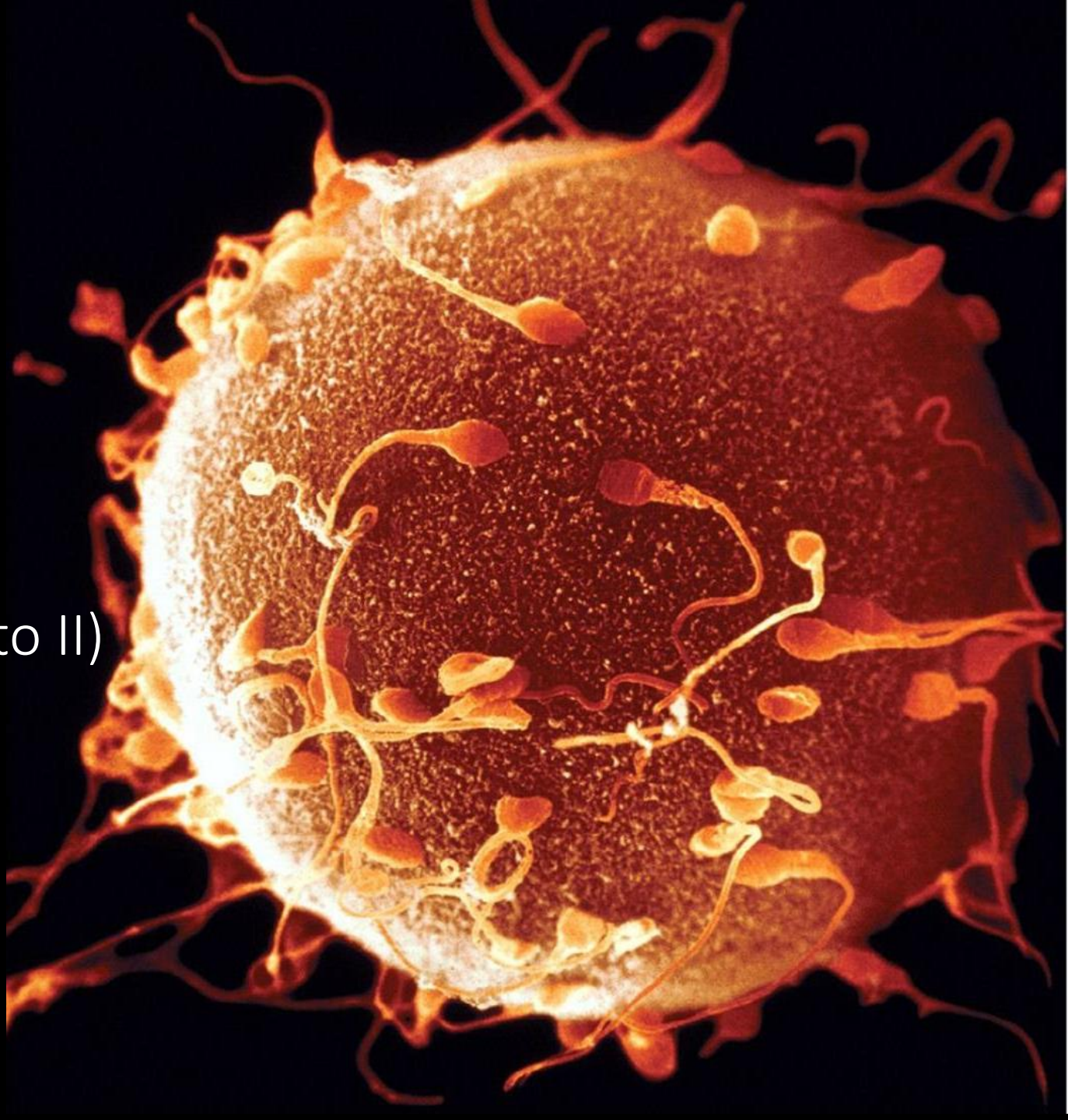




**TÁ BOM, UMA CÉLULA VEM DE
OUTRA, MAS DE ONDE VEM OS
BEBÊS?**

FECUNDAÇÃO

(fusão do espermatozoide ao ovócito II)



Núcleo do
espermatozóide
contendo
cromossomas

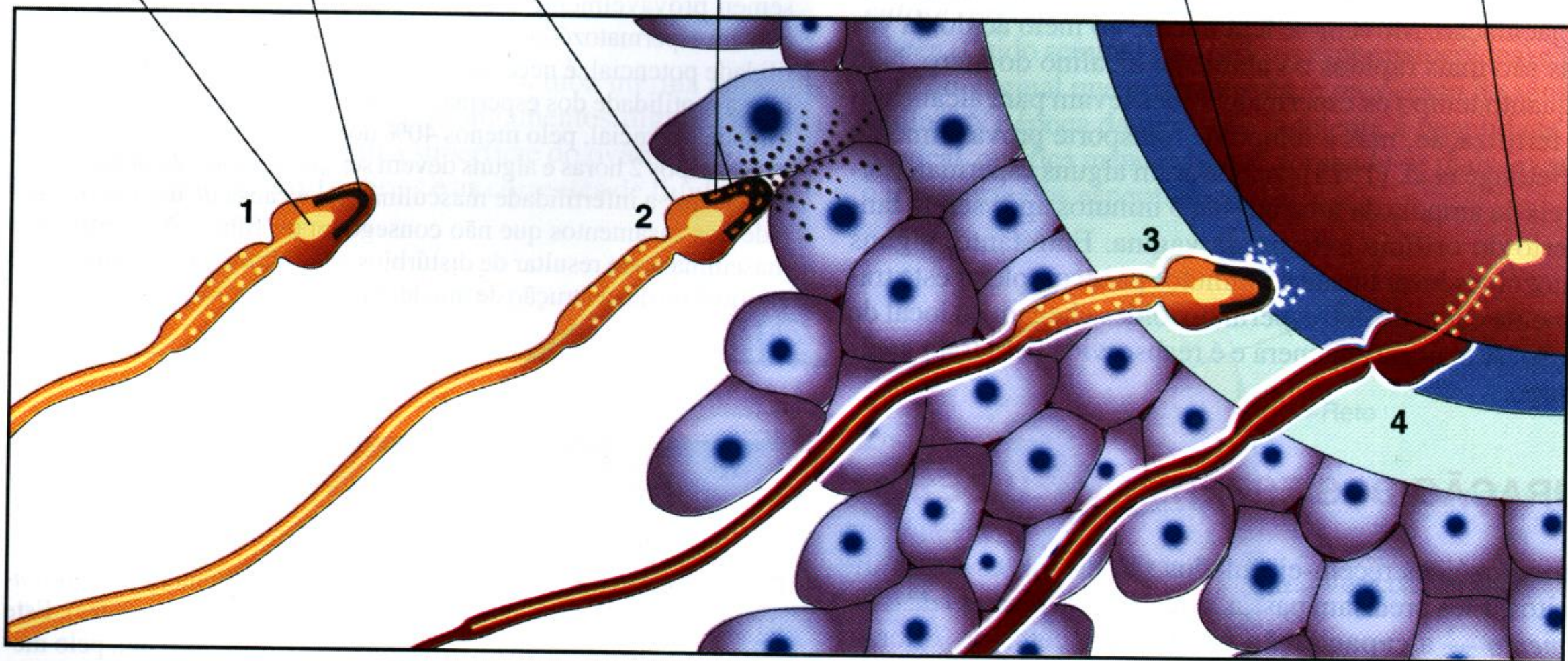
Acrossoma
contendo
enzimas

Membrana
plasmática do
espermatozóide

Perfurações na
parede
do acrossoma

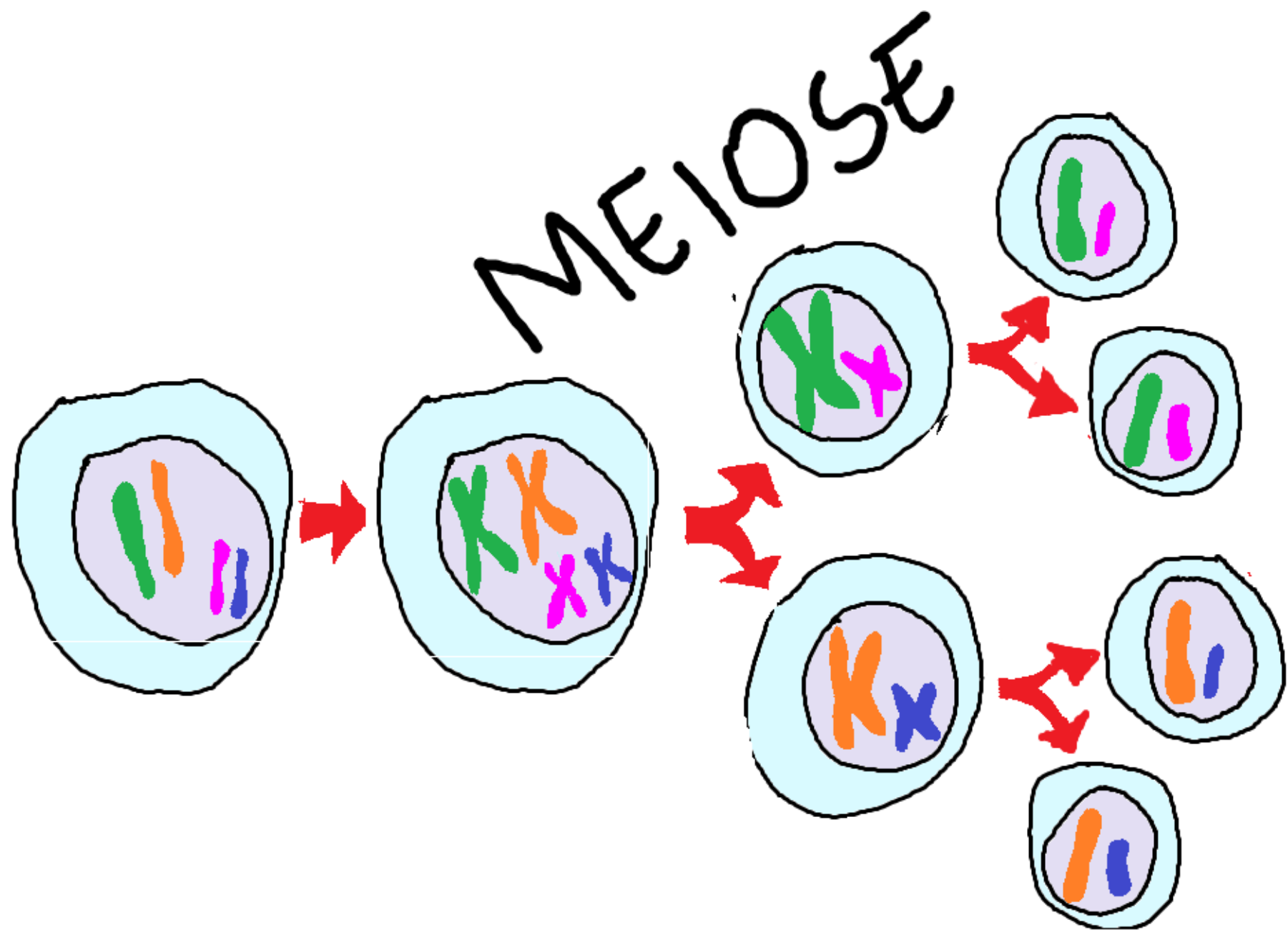
Enzimas
dissolvem a
zona pelúcida

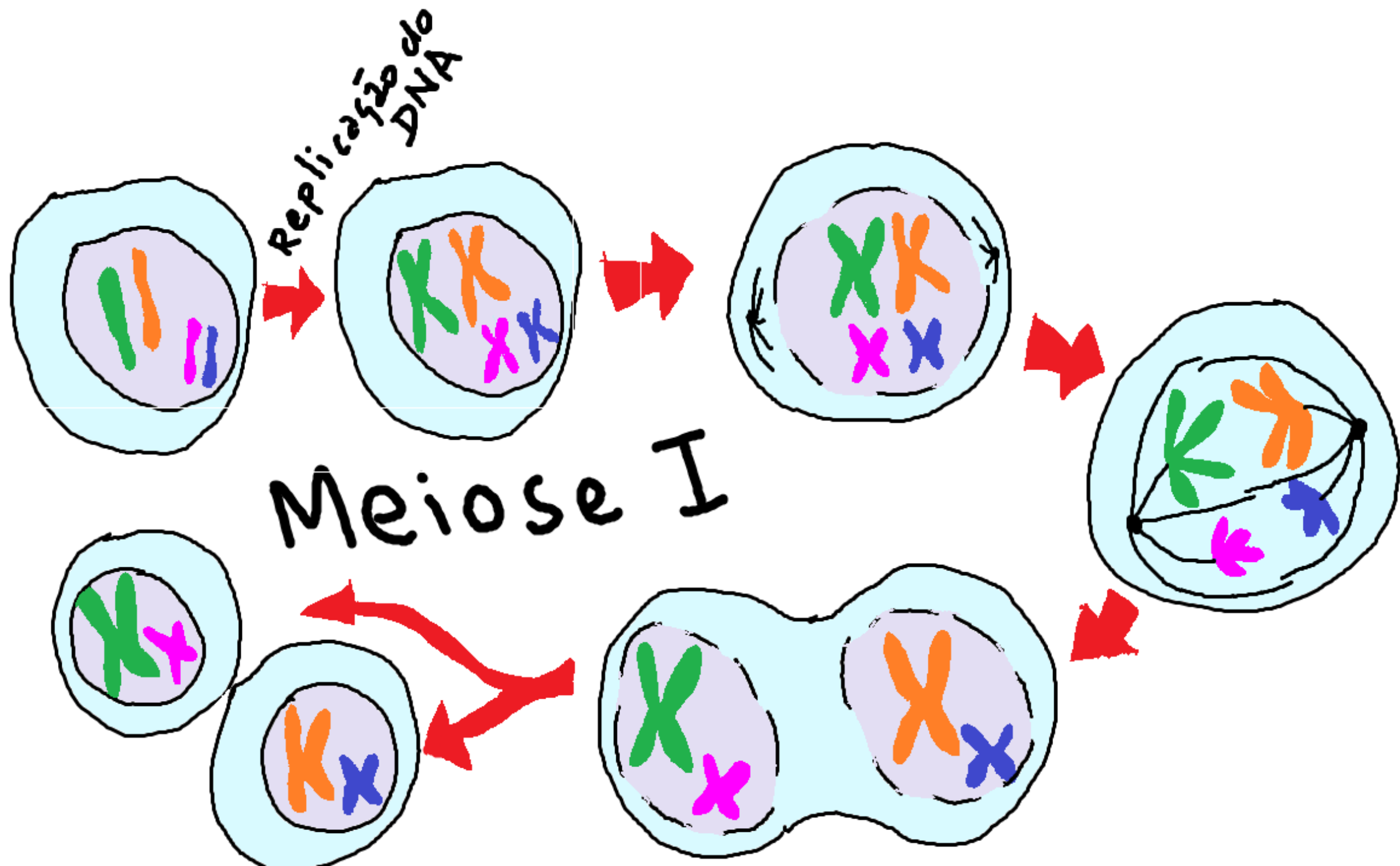
Espermatozóide no
citoplasma do
ovócito sem sua membrana
plasmática

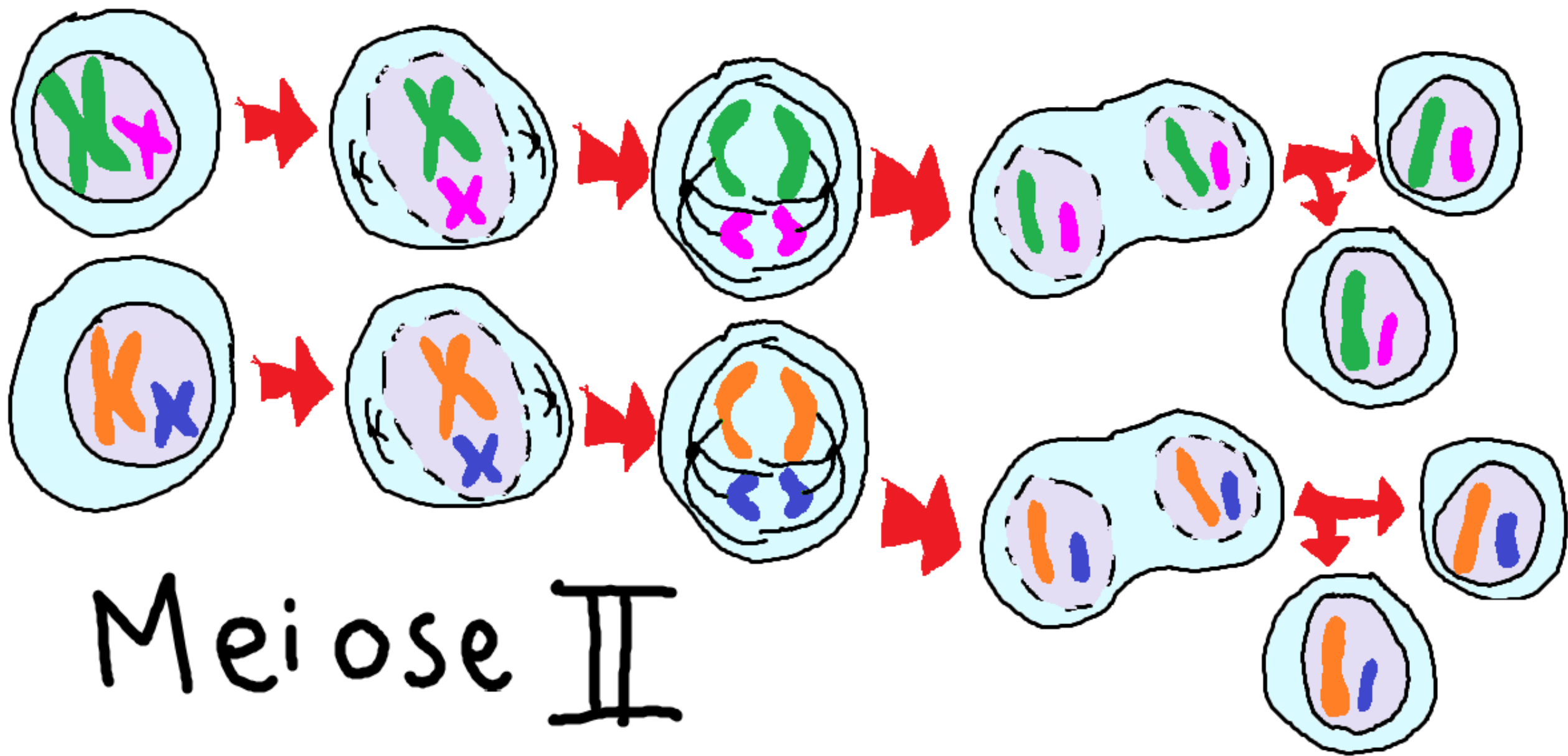


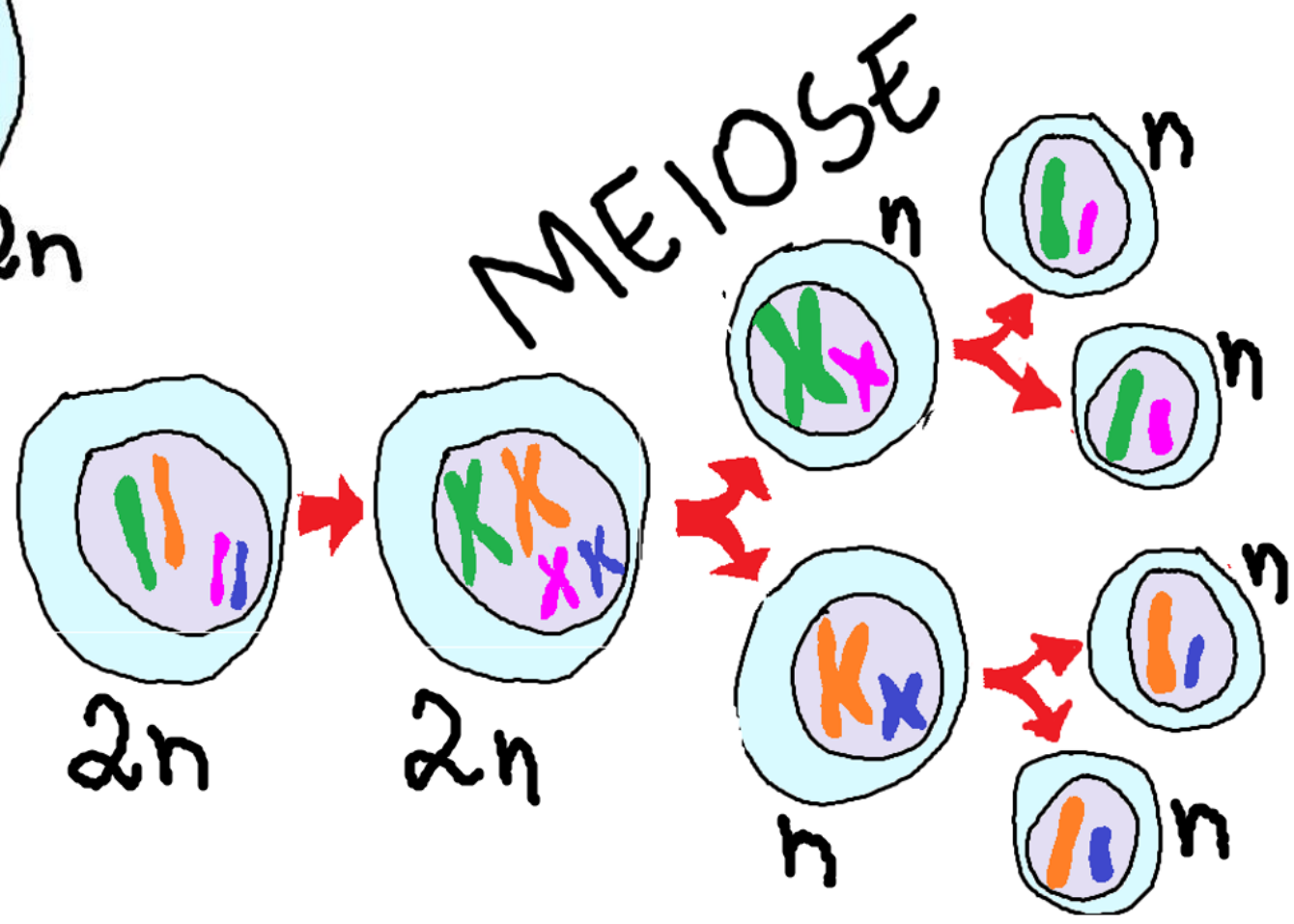
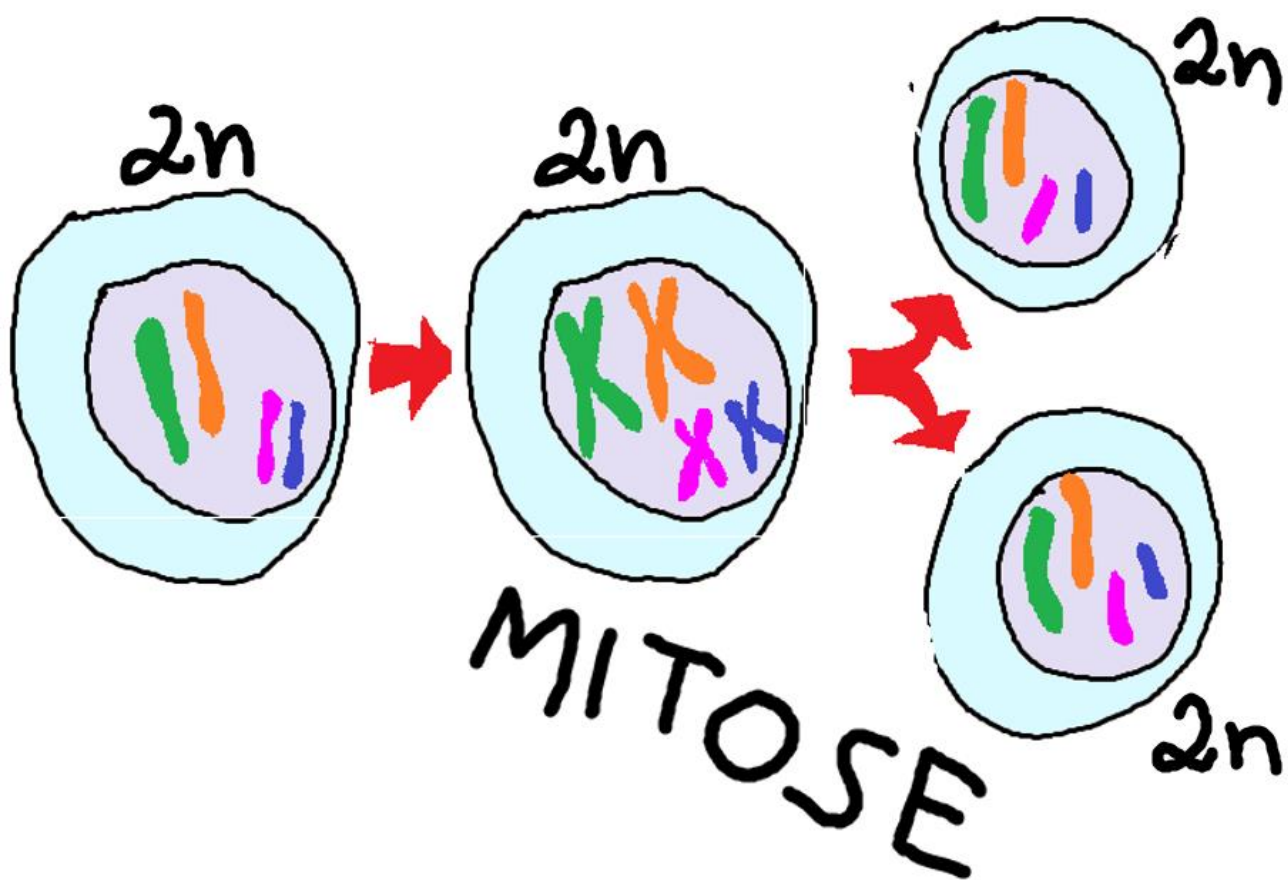
MAS ENTÃO O BEBÊ TEM O DOBRO
DE CROMOSSOMOS QUE OS PAIS!?

(Não)

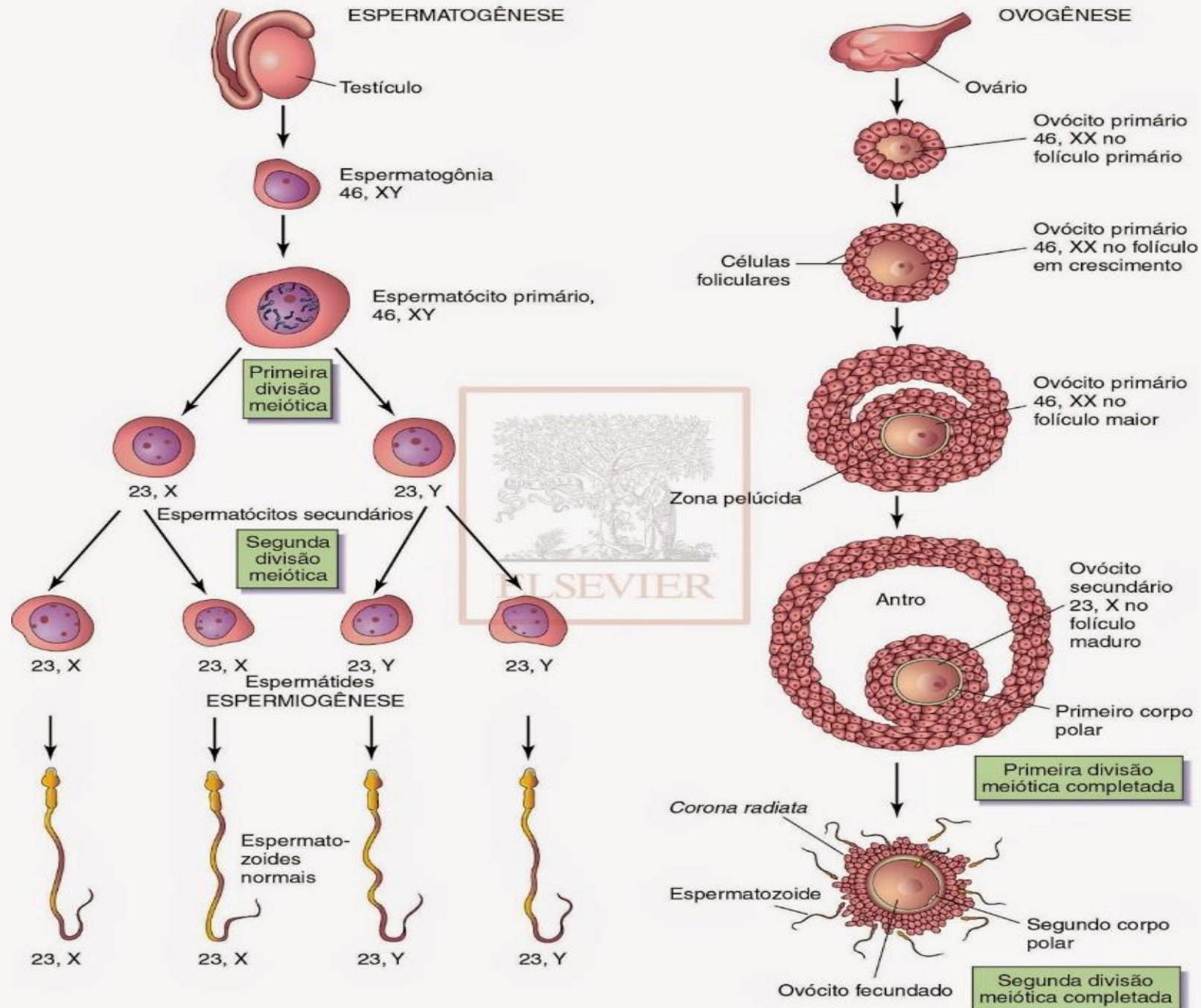


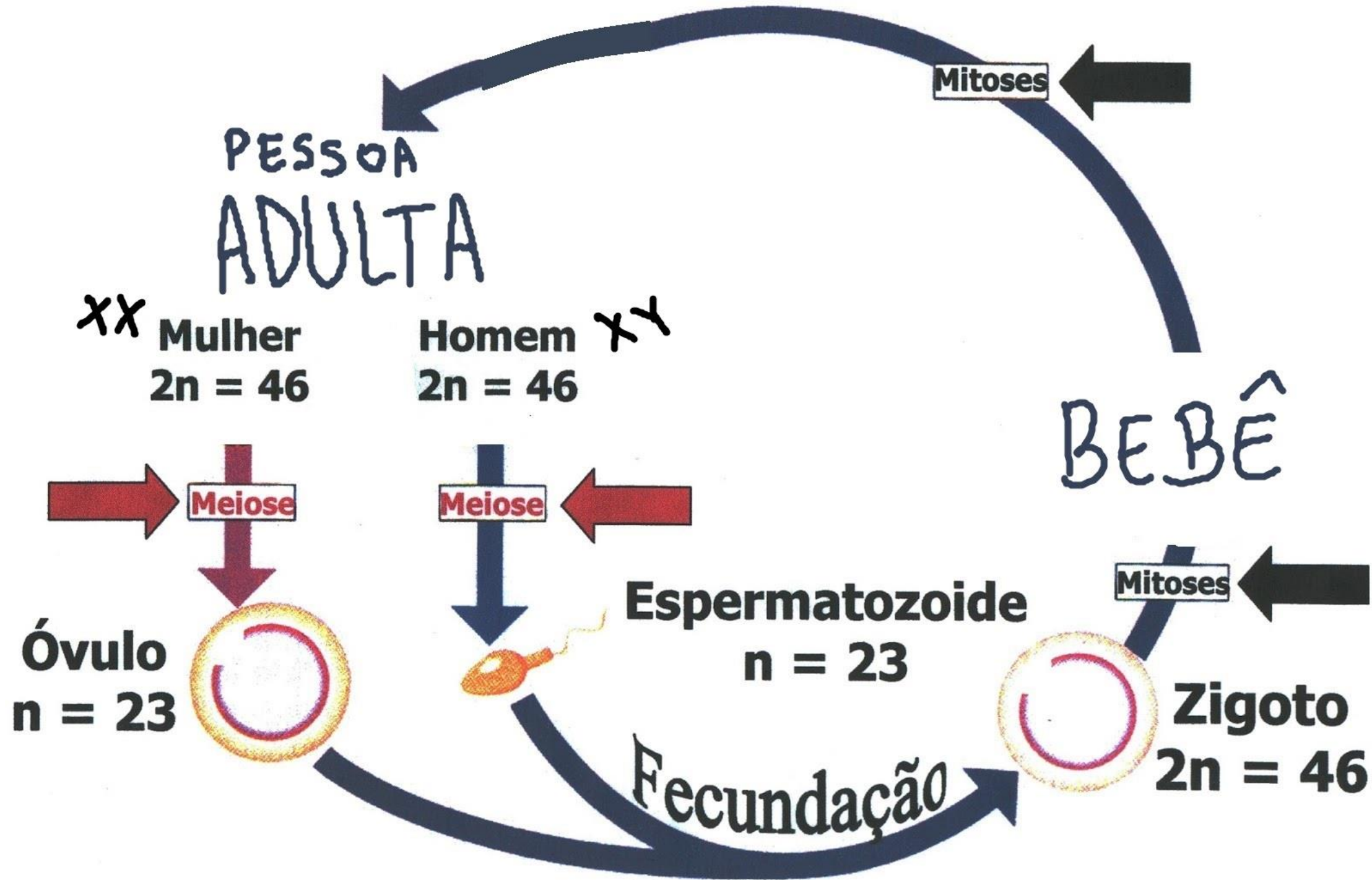






GAMETOGENESE NORMAL







NOS PRÓXIMO EPISÓDIO...

- GENÉTICA MENDELIANA -

1ª LEI DE MENDEL

2ª LEI DE MENDEL



REFERÊNCIAS DAS IMAGENS

[HTTP://WWW.SOBIOLOGIA.COM.BR/CONTEUDOS/FIGURAS/BIOQUIMICA/FERMENTACAO_ALCOOLICA.JPG](http://WWW.SOBIOLOGIA.COM.BR/CONTEUDOS/FIGURAS/BIOQUIMICA/FERMENTACAO_ALCOOLICA.JPG)

[HTTP://WWW.SOBIOLOGIA.COM.BR/CONTEUDOS/FIGURAS/BIOQUIMICA/FERMENTACAO_LATICA.JPG](http://WWW.SOBIOLOGIA.COM.BR/CONTEUDOS/FIGURAS/BIOQUIMICA/FERMENTACAO_LATICA.JPG)

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[77VPDDRNVNZY/VRXHCXFFXFI/AAAAAAAAAMC8/QZL2ZKDN8S0/S1600/YOGURTE%2BCASEIRO%2BLIGHT.PNG](https://4.BP.BLOGSPOT.COM/-77VPDDRNVNZY/VRXHCXFFXFI/AAAAAAAAAMC8/QZL2ZKDN8S0/S1600/YOGURTE%2BCASEIRO%2BLIGHT.PNG)

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[HTTP://WWW.DOCADOCES.EU/WP-CONTENT/UPLOADS/2015/05/P%C3%A3O-AV%C3%B3.JPG](http://WWW.DOCADOCES.EU/WP-CONTENT/UPLOADS/2015/05/P%C3%A3O-AV%C3%B3.JPG)

[HTTP://REVISTAVIVASAUDE.UOL.COM.BR/UPLOAD/IMAGENS_UPLOAD/6_MOTIVOS_PARA_BEBER_CERVEJA.JPG](http://REVISTAVIVASAUDE.UOL.COM.BR/UPLOAD/IMAGENS_UPLOAD/6_MOTIVOS_PARA_BEBER_CERVEJA.JPG)

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[HTTP://SEGREDOSDOEMAGRECIMENTOESAUDE.COM/WP-CONTENT/UPLOADS/2015/06/DOCES.JPG](http://SEGREDOSDOEMAGRECIMENTOESAUDE.COM/WP-CONTENT/UPLOADS/2015/06/DOCES.JPG)

[HTTP://WWW.MEDICINAGERIATRICA.COM.BR/WP-](http://WWW.MEDICINAGERIATRICA.COM.BR/WP-CONTENT/UPLOADS/2013/05/LISOSSOMO.JPG)

[CONTENT/UPLOADS/2013/05/LISOSSOMO.JPG](http://WWW.MEDICINAGERIATRICA.COM.BR/WP-CONTENT/UPLOADS/2013/05/LISOSSOMO.JPG)[HTTP://IMAGES.SLIDEPLAYER.COM.BR/3/1270915/SLIDES/SLIDE_13.JPG](http://IMAGES.SLIDEPLAYER.COM.BR/3/1270915/SLIDES/SLIDE_13.JPG)

[HTTPS://WWW.VENCEROCANCER.ORG.BR/WP-CONTENT/UPLOADS/2013/08/VOC-DNA-DIVISAO-HENRIK5000-822X463.JPG](https://WWW.VENCEROCANCER.ORG.BR/WP-CONTENT/UPLOADS/2013/08/VOC-DNA-DIVISAO-HENRIK5000-822X463.JPG)

[HTTP://WWW.INFOESCOLA.COM/WP-CONTENT/UPLOADS/2007/10/REPLICACAO-DE-DNA.JPG](http://WWW.INFOESCOLA.COM/WP-CONTENT/UPLOADS/2007/10/REPLICACAO-DE-DNA.JPG)