

ПОСТМЕЈОТИЧКЕ ДЕОБЕ

Гаметогенезе



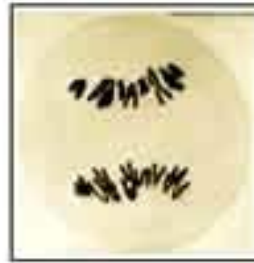
Микроспорогенеза

Макроспорогенеза



Сперматогенеза

Оогенеза



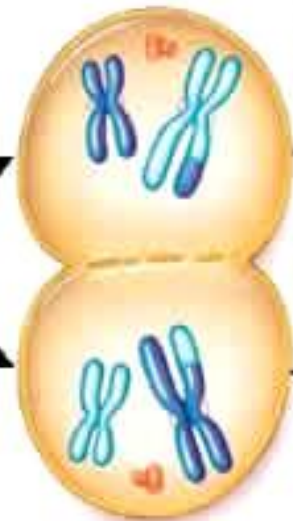
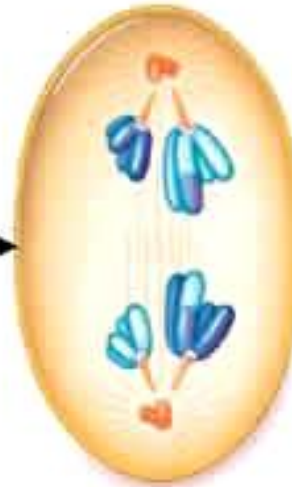
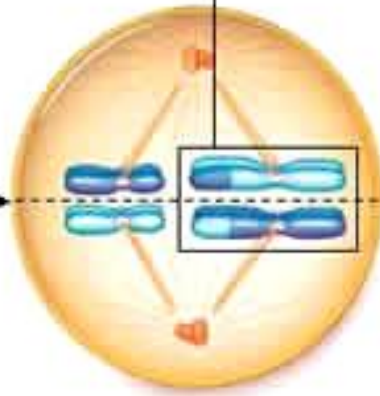
One pair of homologous chromosomes (homologues)

Homologues Condense and cross over

Homologues Align

Homologues Separate

Meiosis I result: homologues separated into 2 cells



©2001 Brooks/Cole - Thomson Learning

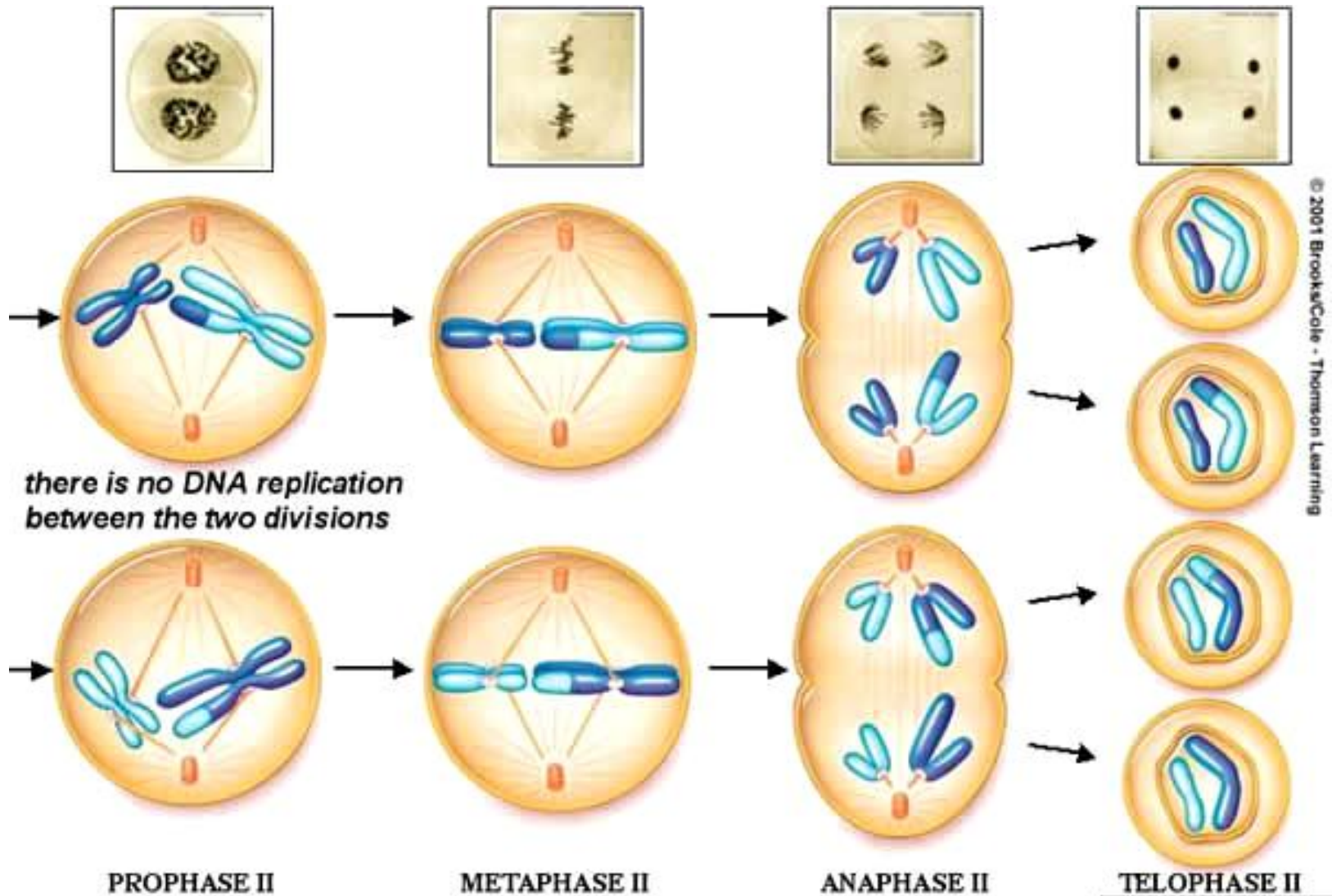
PROPHASE I

METAPHASE I

ANAPHASE I

TELOPHASE I

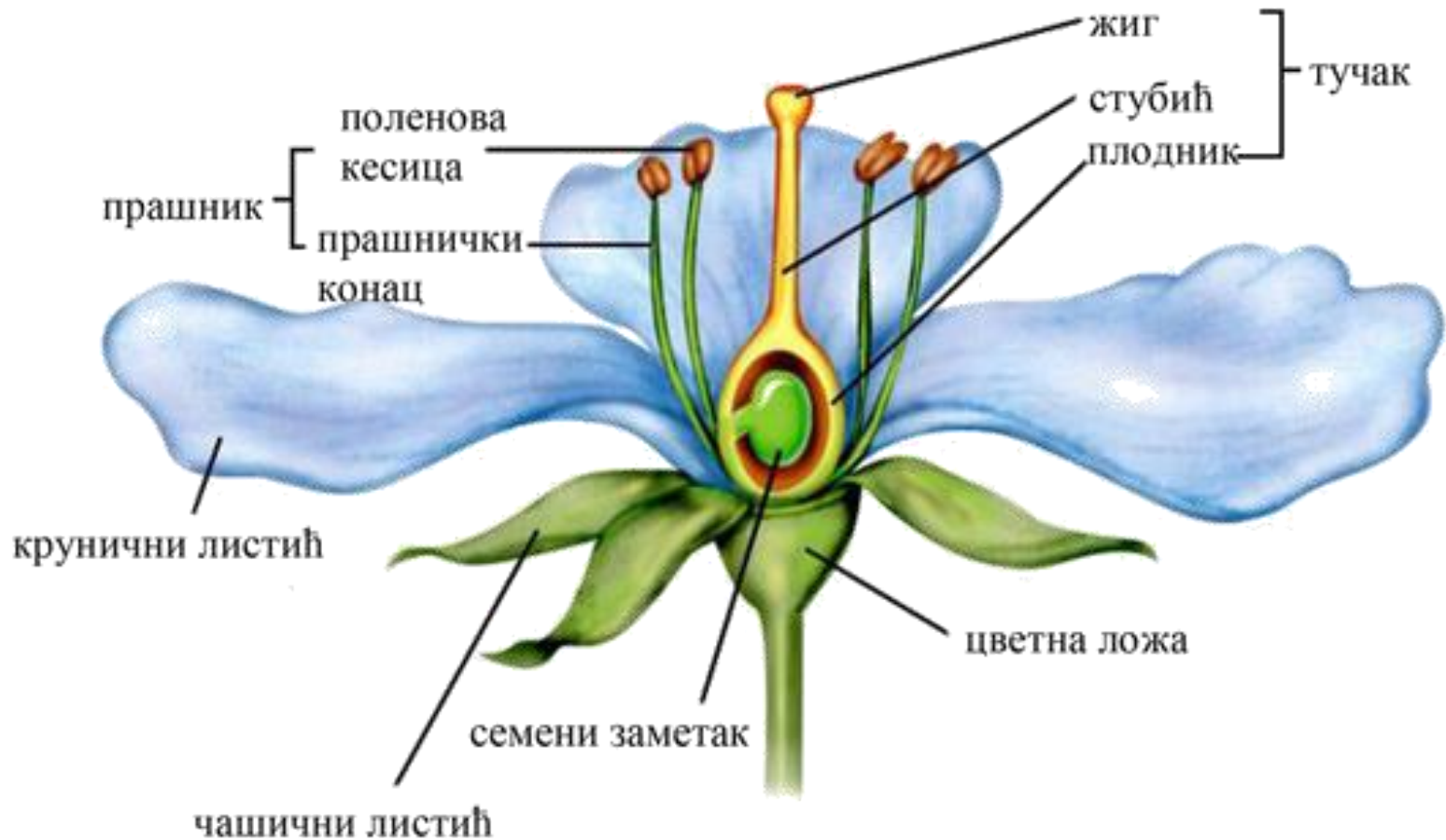
MEIOSIS I: Separate the Homologues



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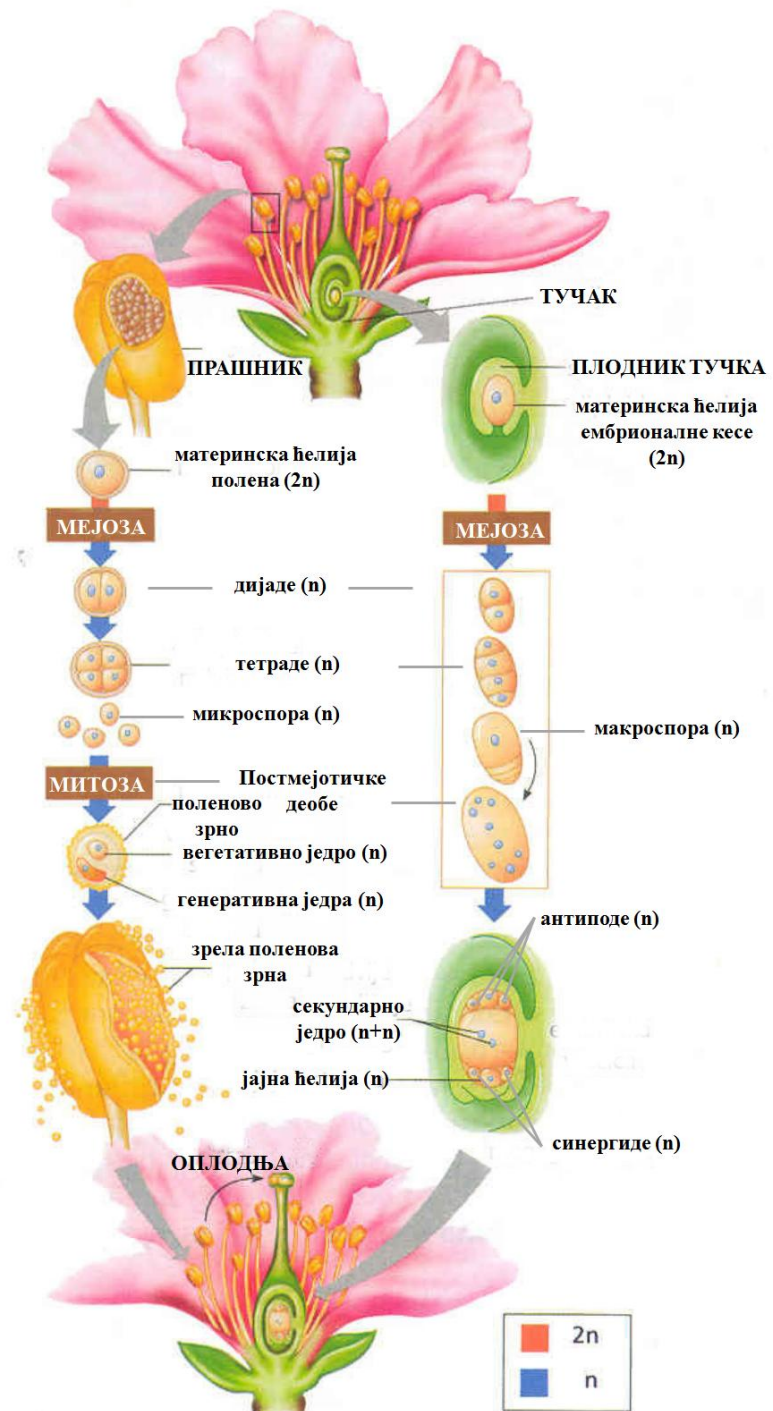
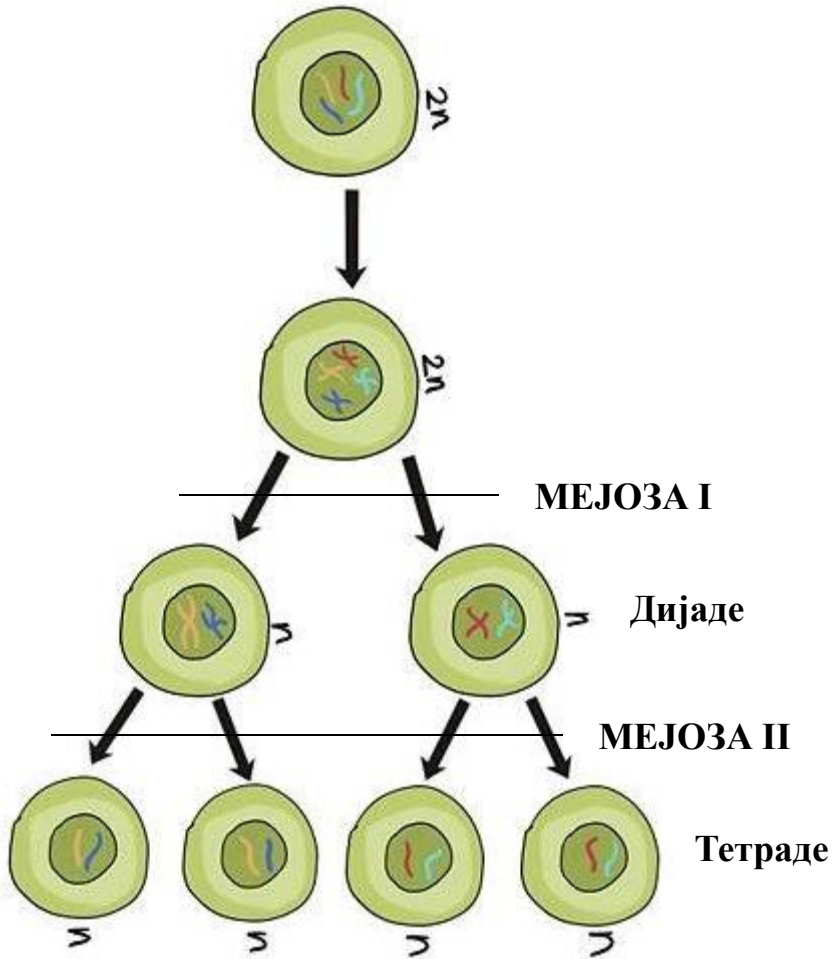
MEIOSIS II: Separate the Sister Chromatids (by mitosis)

ГАМЕТОГЕНЕЗЕ БИЉАКА



- Микроспорогенеза ♂
- Макроспорогенеза ♀

МЕЈОЗА

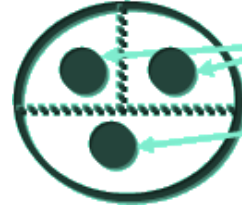


МИКРОСПОРОГЕНЕЗА

Прашник
(антере)

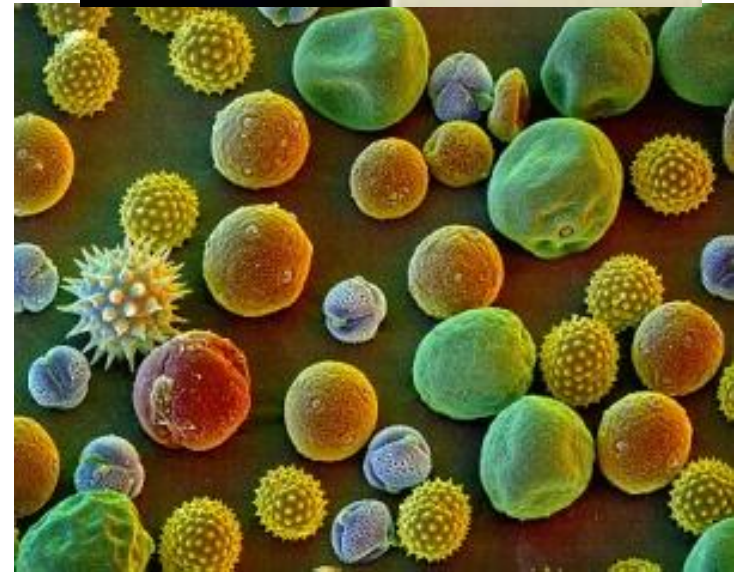
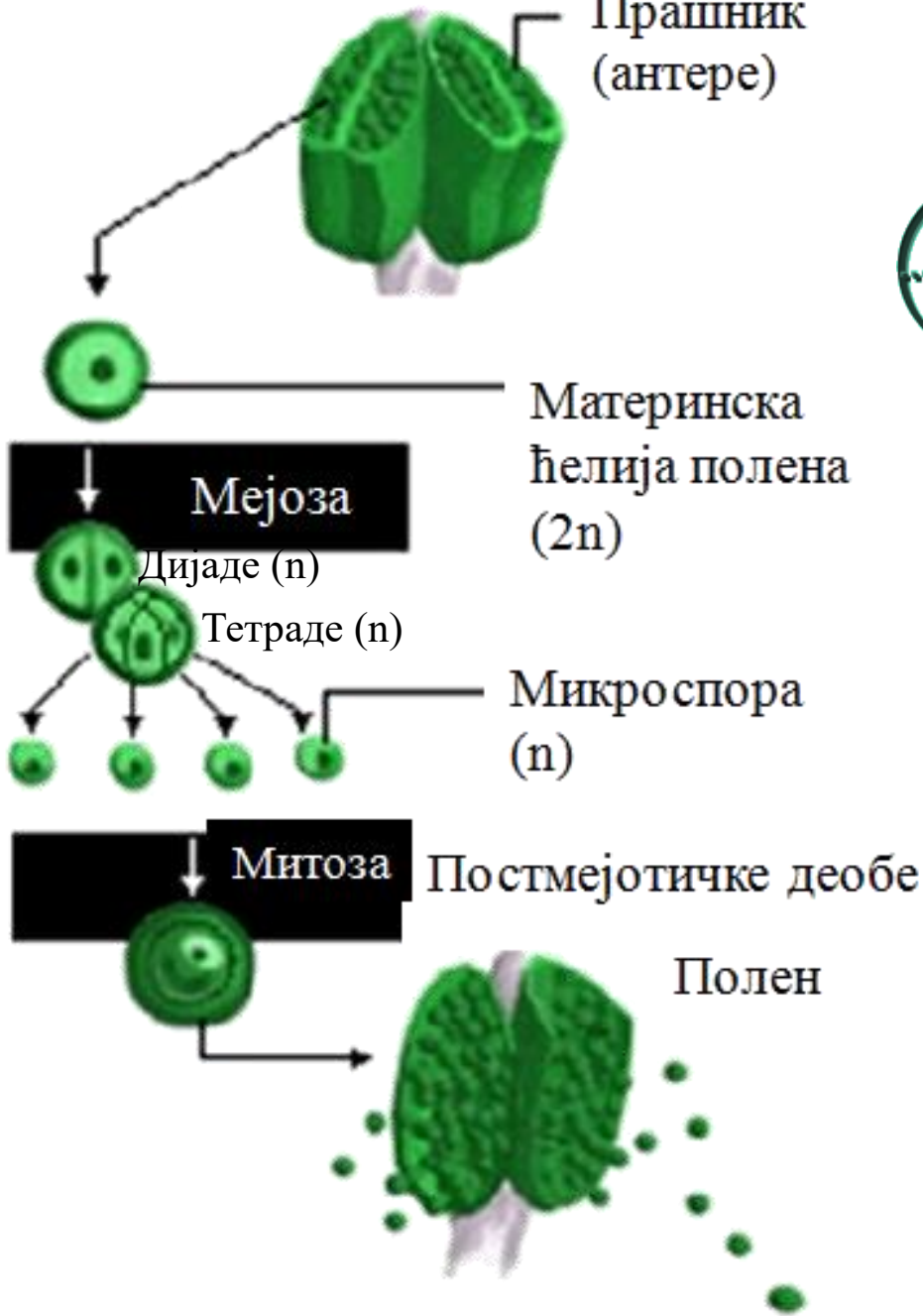


ПОЛЕНОВО ЗРНО

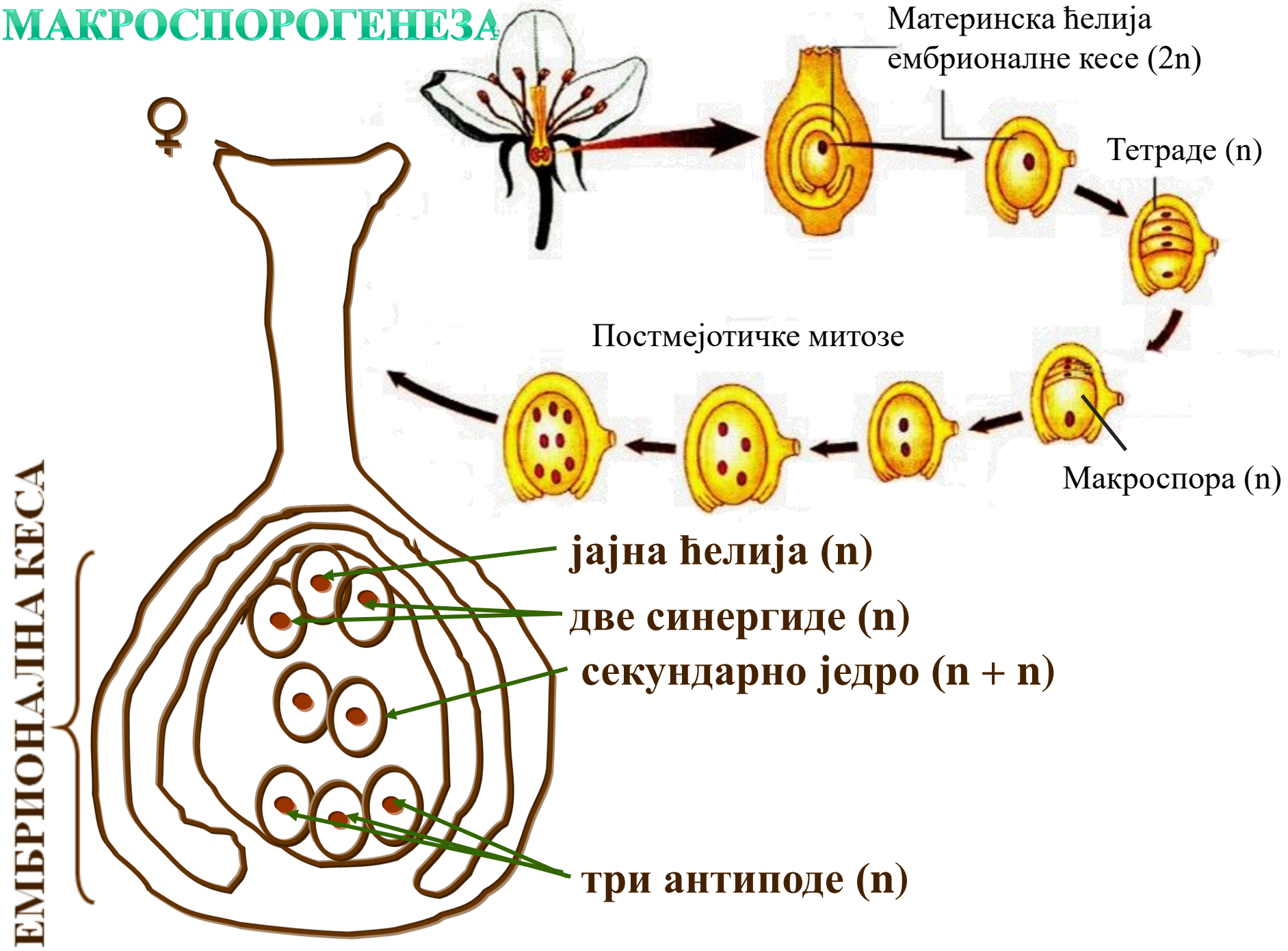


генеративна једра (n)

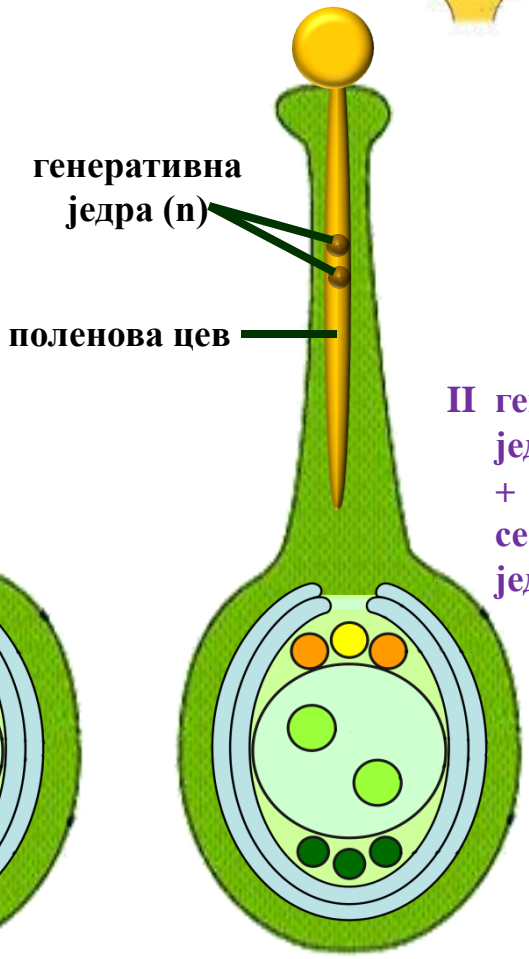
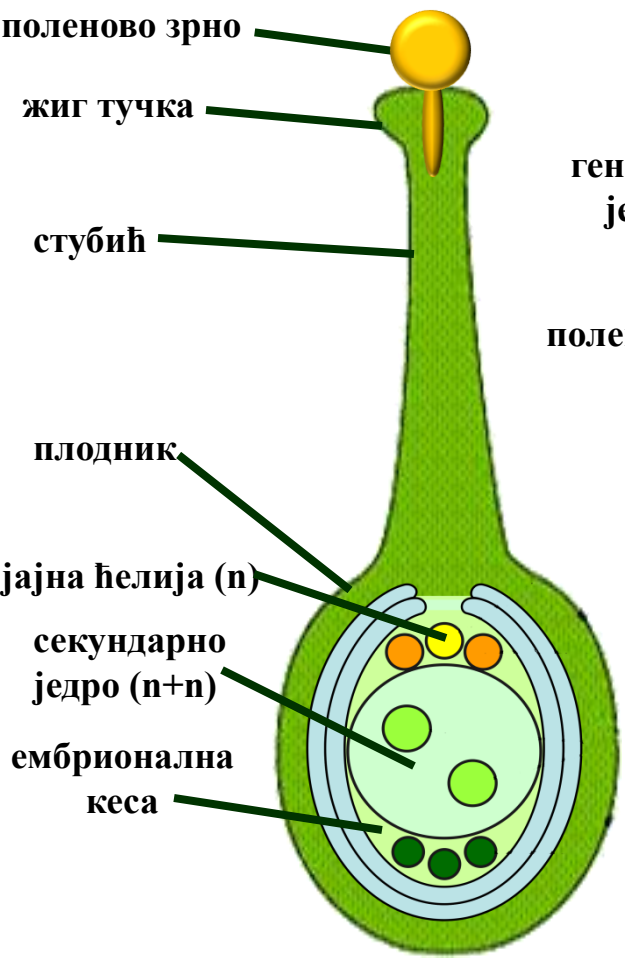
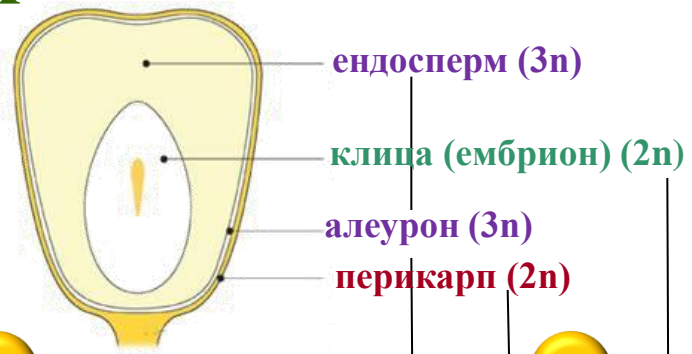
вегетативно једро (n)



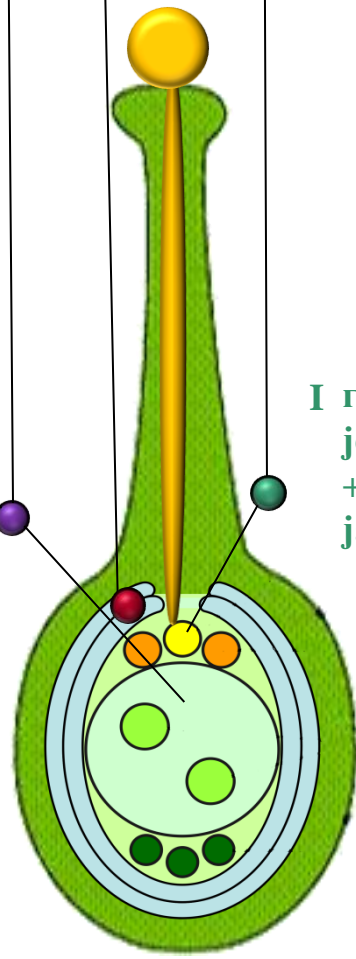
МАКРОСПОРОГЕНЕЗА



ДВОСТРУКА ОПЛОДЊА



II генеративно једро (n)
 +
 секундарно једро (n+n)

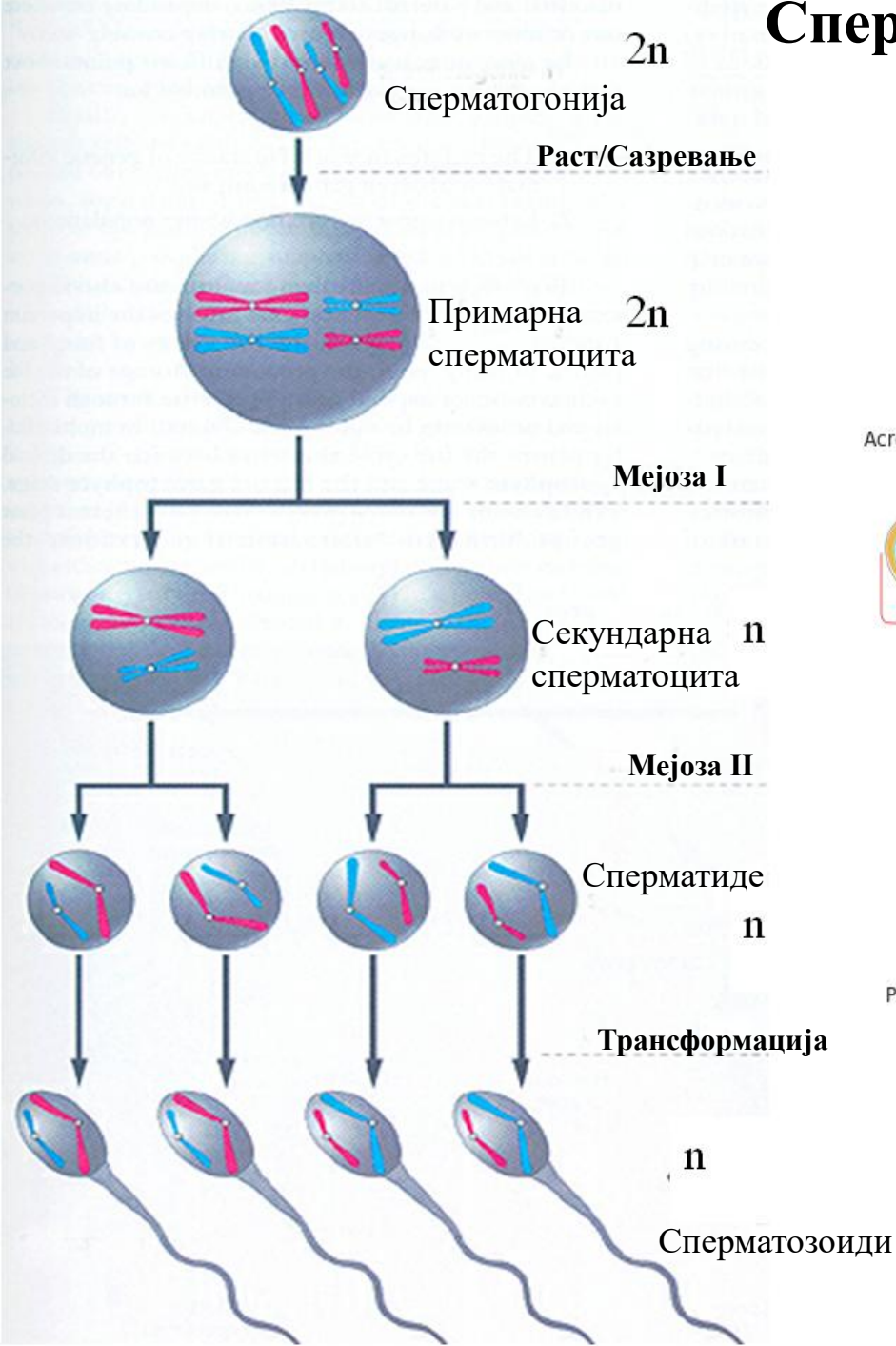
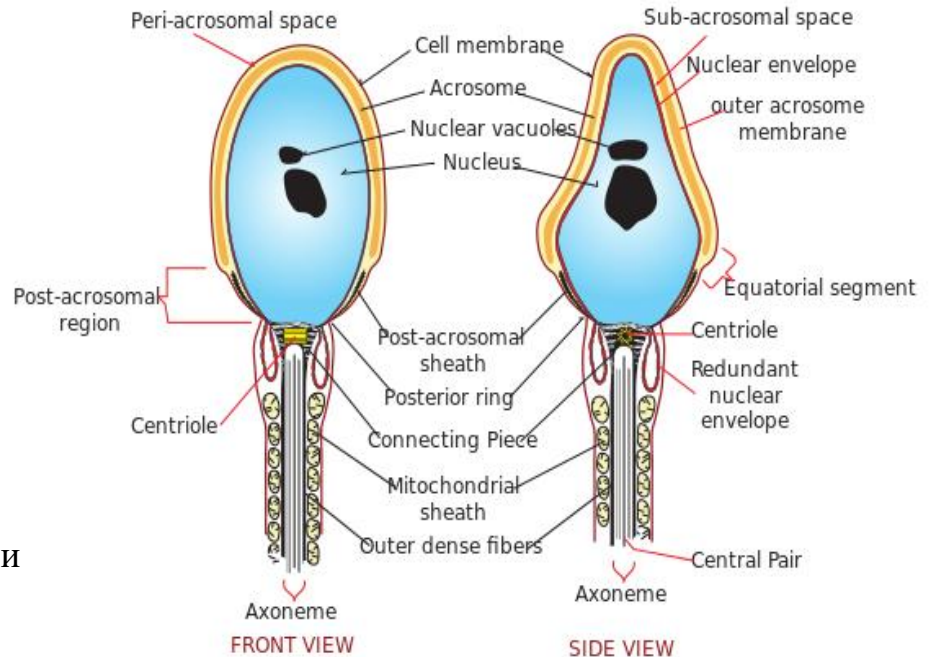
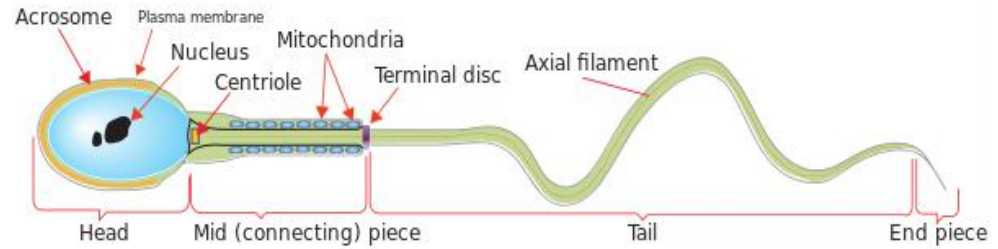


I генеративно једро (n)
 +
 јајна ћелија (n)

Сперматогенеза



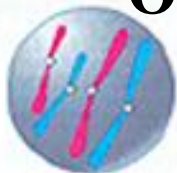
Грађа сперматозоида



Оогенеза

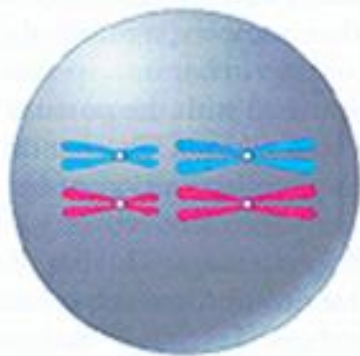
Оогонија

$2n$



Раст/Сазревање

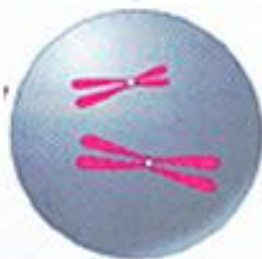
Примарна ооцита



$2n$

Мејоза I

Секундарна ооцита



Прво поларно телишце



Мејоза II

Јајна ћелија

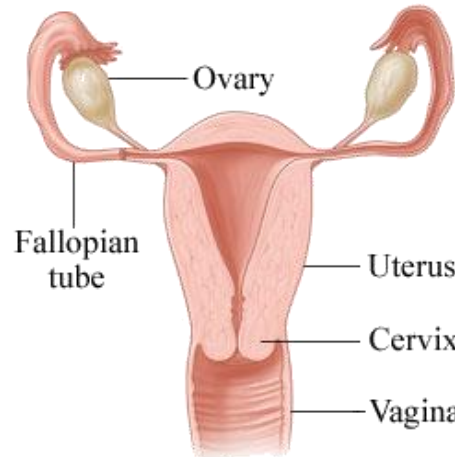


Друга поларна телишца

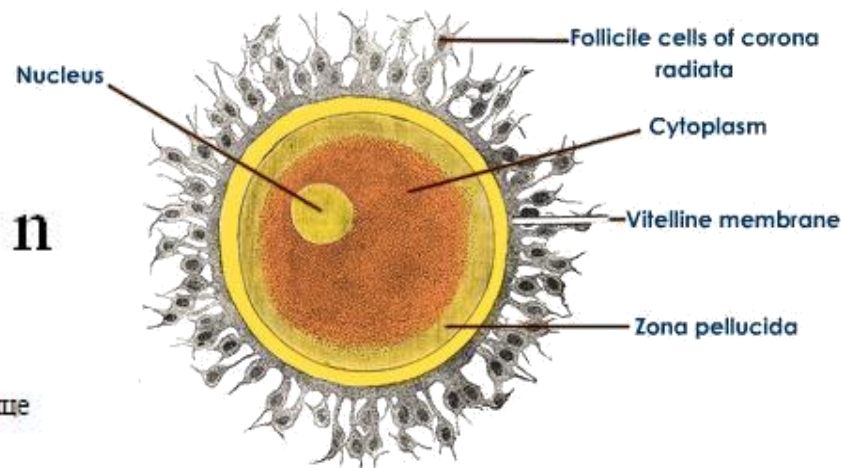


n

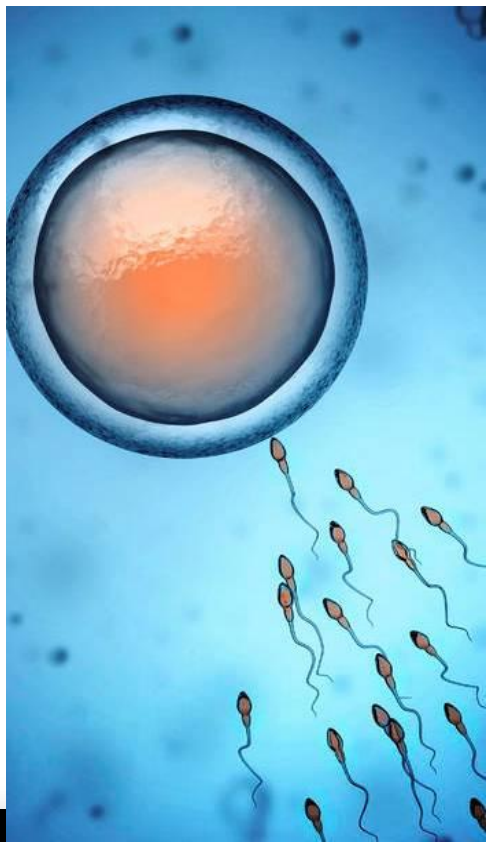
n



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Human Embryonic and Foetal Development



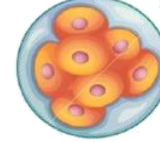
Fertilized egg



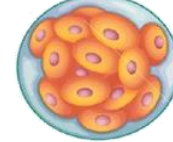
2-cell stage



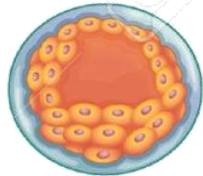
4-cell stage



8-cell stage



16-cell stage



Blastocyst



Foetus - 4 weeks



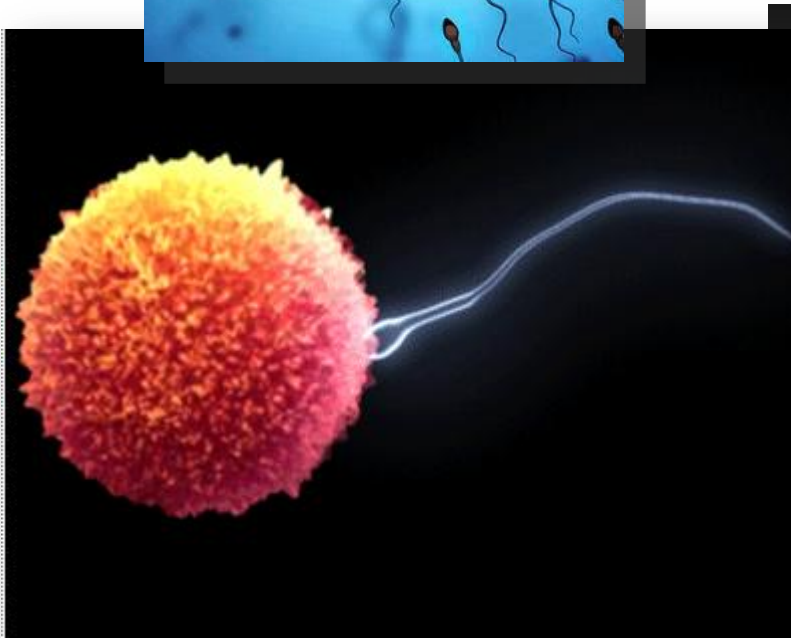
Foetus - 10 weeks

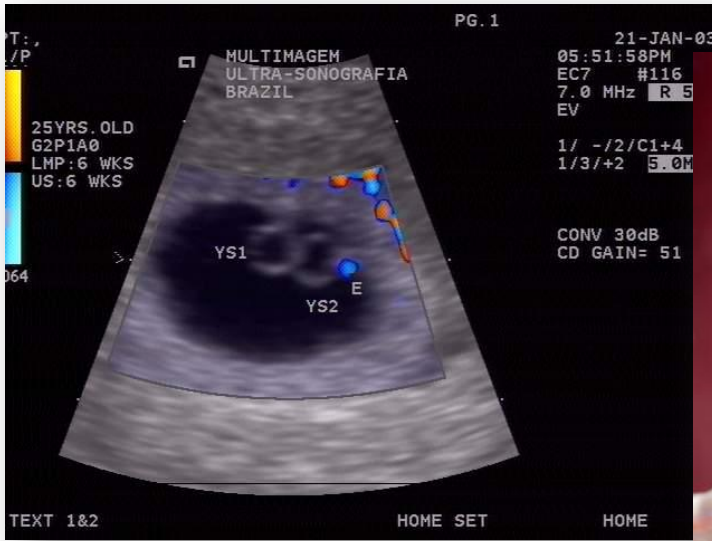


Foetus - 16 weeks

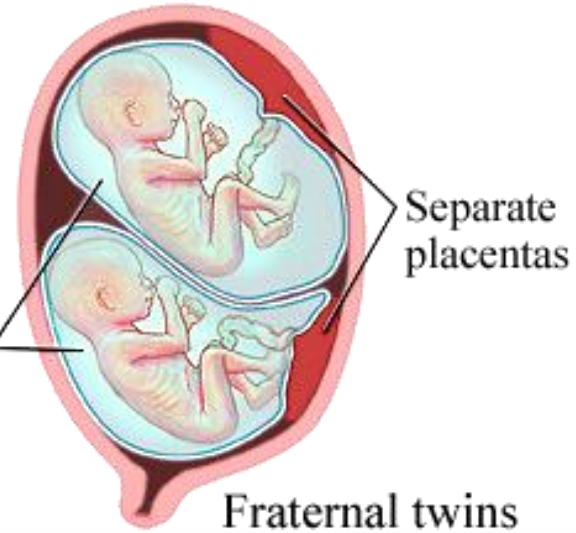
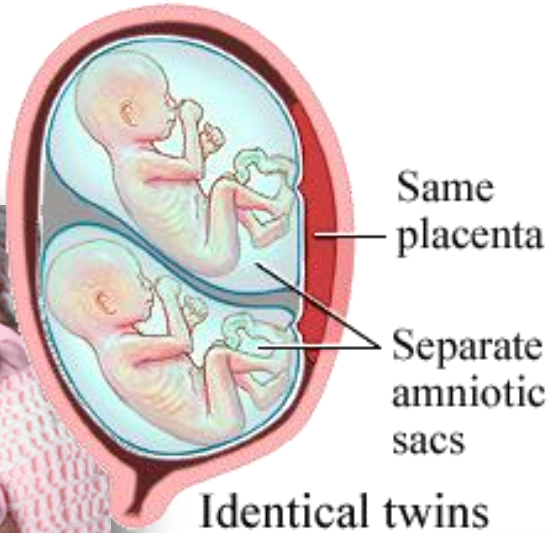
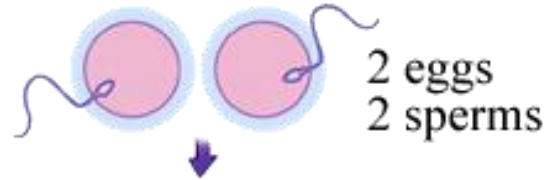
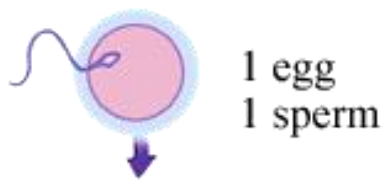


Foetus - 20 weeks





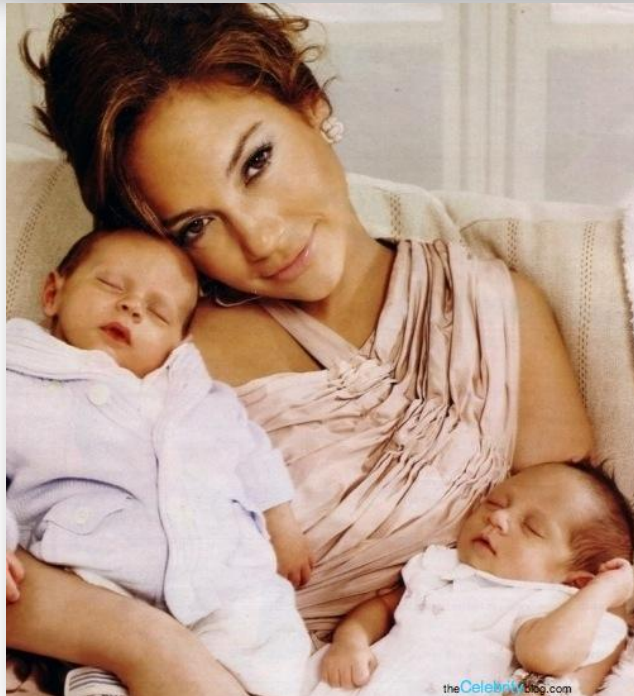
2X



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3X



4X

GESTATIONAL SACS



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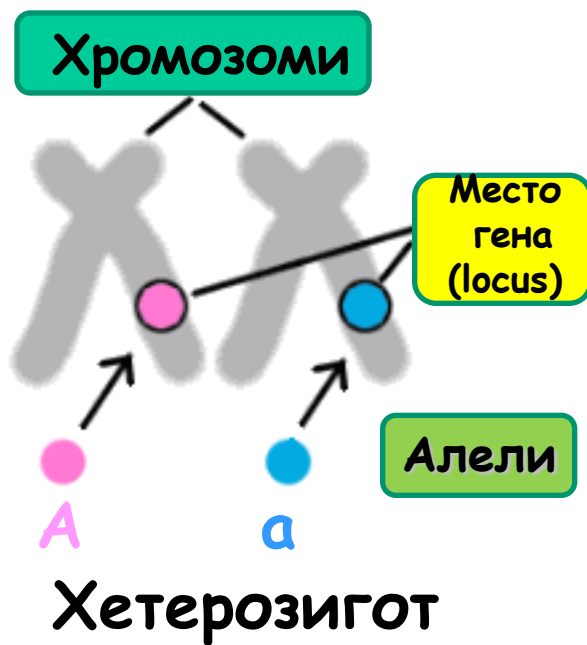
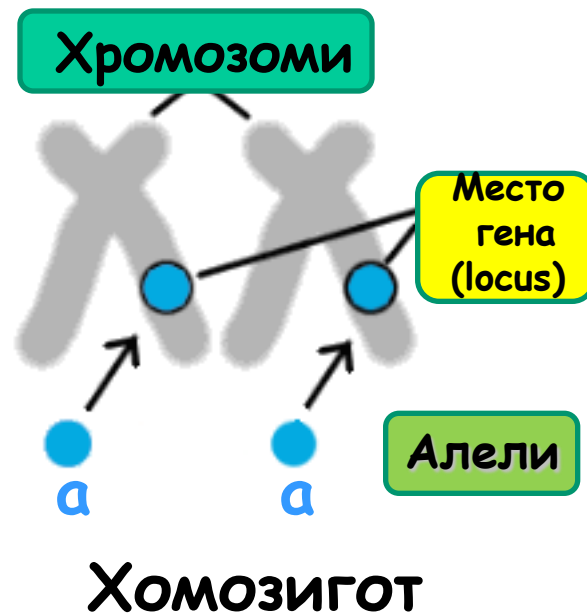
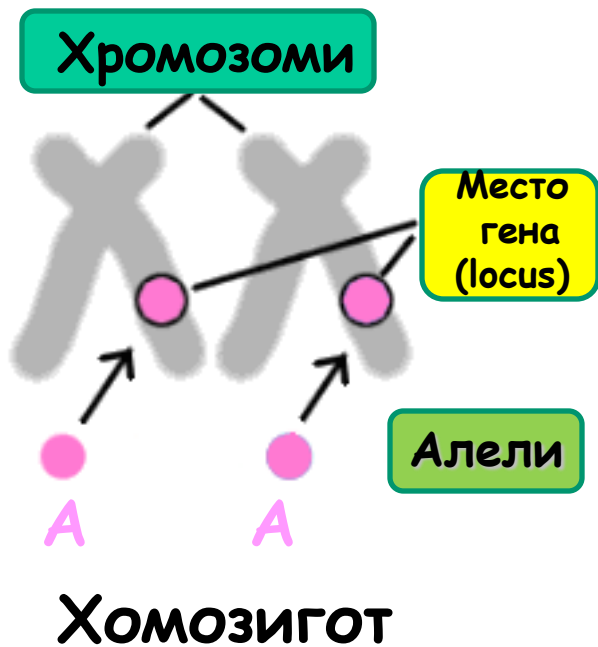




Стварање и одређивање гамета



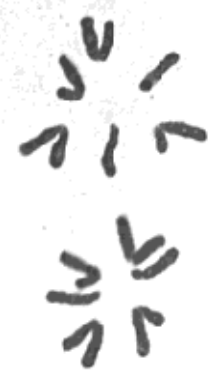
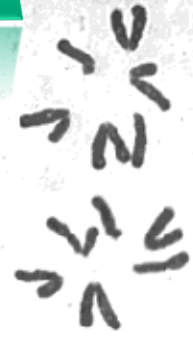
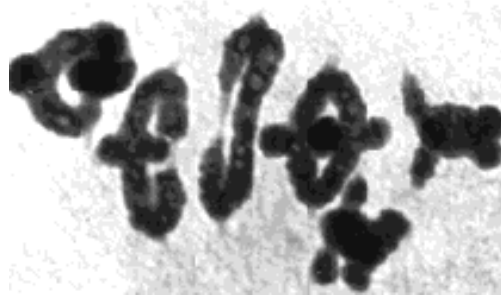
Интраалелна интеракција



MEJOSA

A2

M1

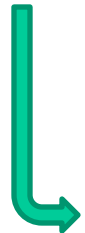


n

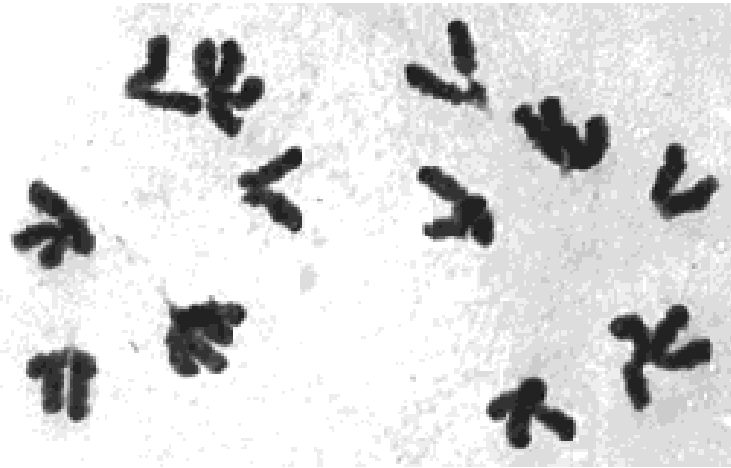
n



2n



A1



n + n

M2



n



n

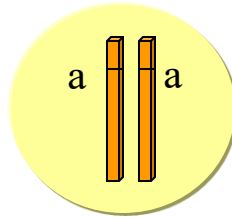
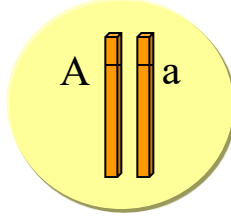
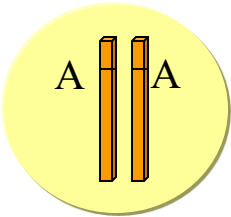
Гамети

Један алел

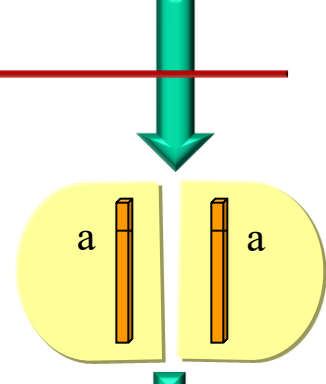
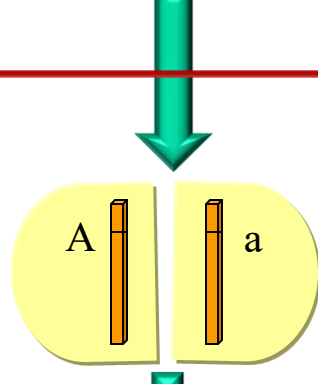
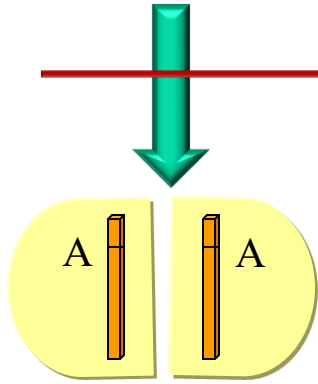
Хомозигот

Хетерозигот

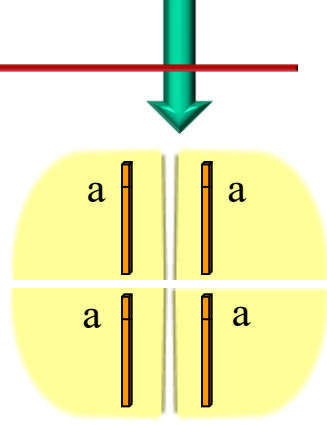
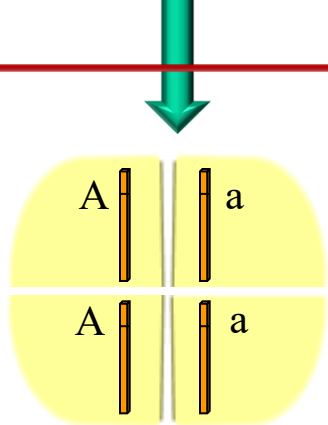
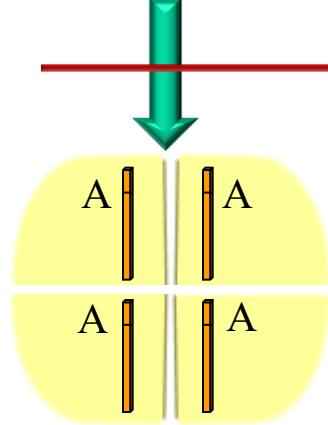
Хомозигот



Мејоза I



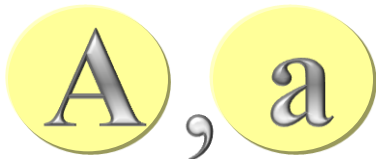
Мејоза II



Врсте гамета



Једна врста гамета



Две врсте гамета



Једна врста гамета

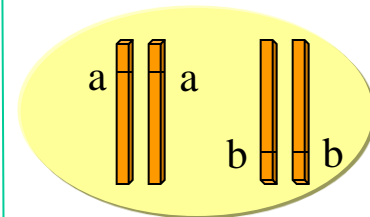
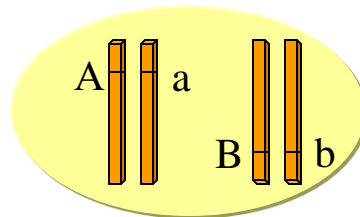
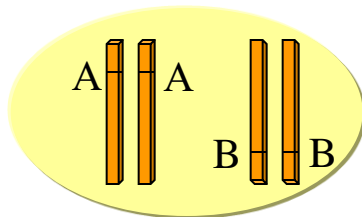
Гамети

Два алела

Хомозигот

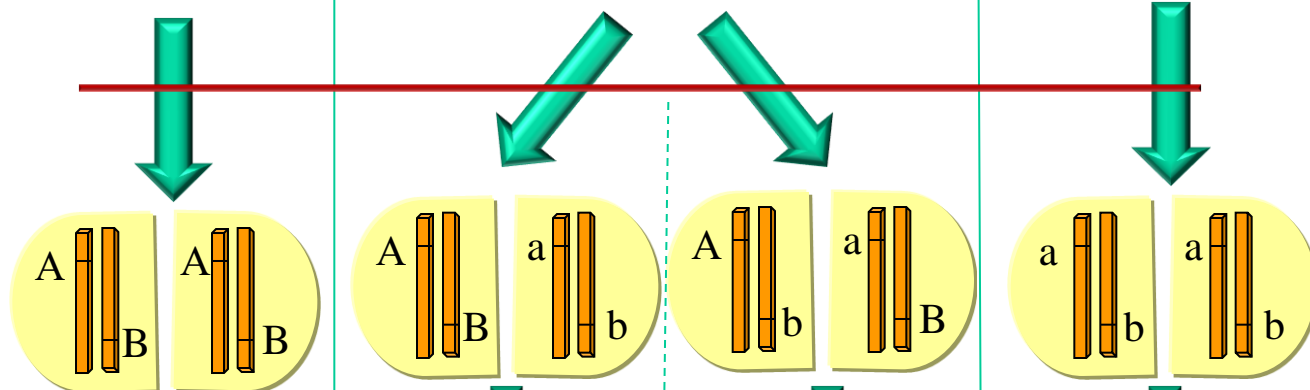
Хетерозигот

Хомозигот



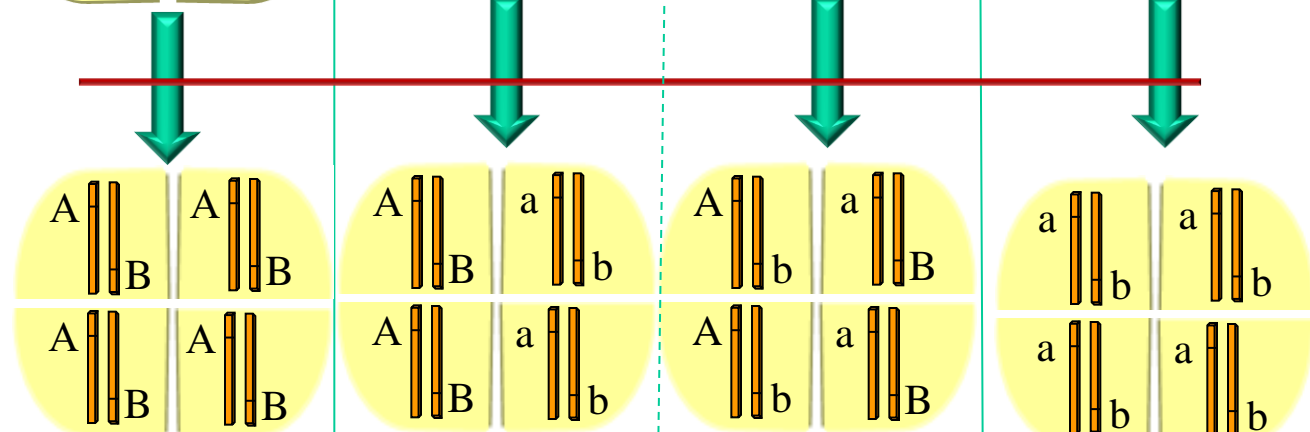
Мејоза I

Дијаде



Мејоза II

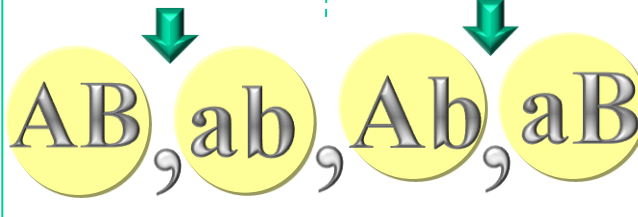
Тетраде



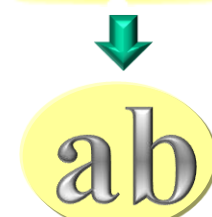
Врсте гамета



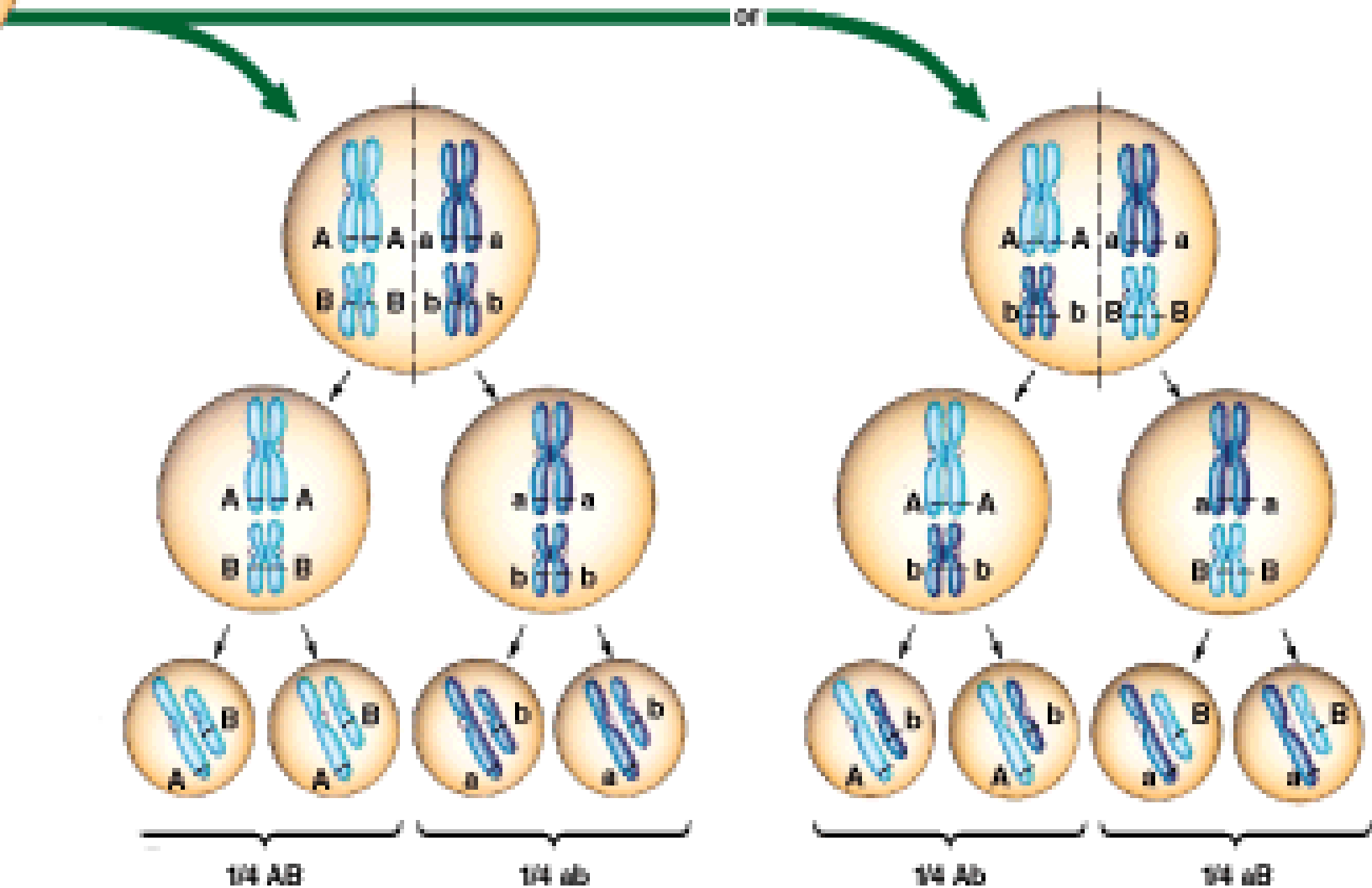
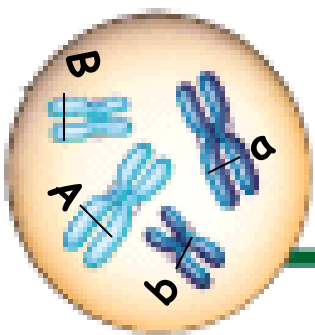
Једна врста гамета



Четири врсте гамета



Једна врста гамета



Генотип	Гамети
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AABBCCDD	ABCD
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<u>Aa</u> BBCCDD	ABCD
------------------	------

aBCD

<u>Aa</u> BbCCDD	ABCD
------------------	------

aBCD

AbCD

abCD

<u>AaBbCc</u> Dd	?
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Генотип	Гамети
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<u>AaBbCc</u> DD	ABCD
------------------	------

aBCD

AbCD

abCD

ABcD

aBcD

AbcD

abcD

Број хетерозигота

2^n