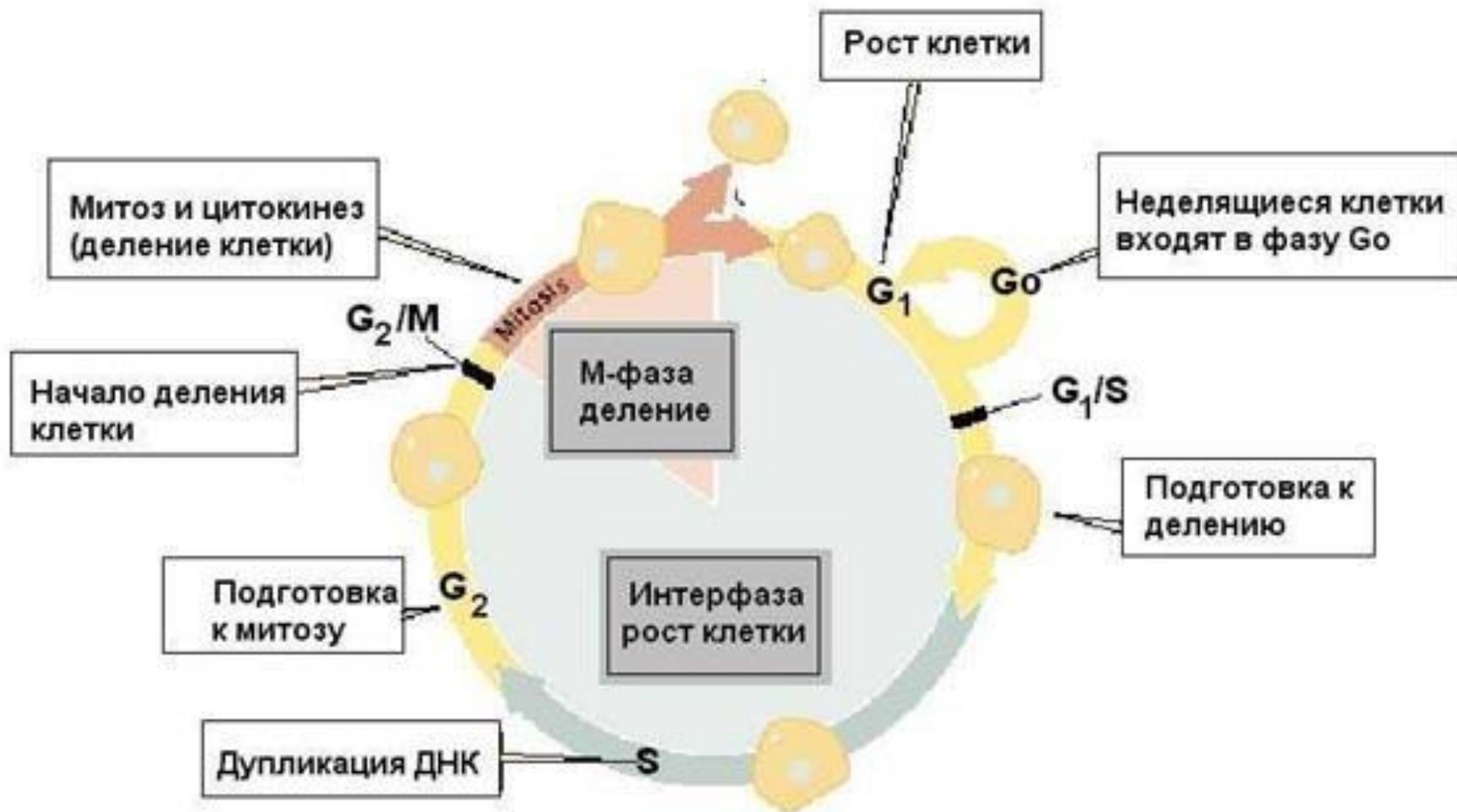


Временная организация клетки

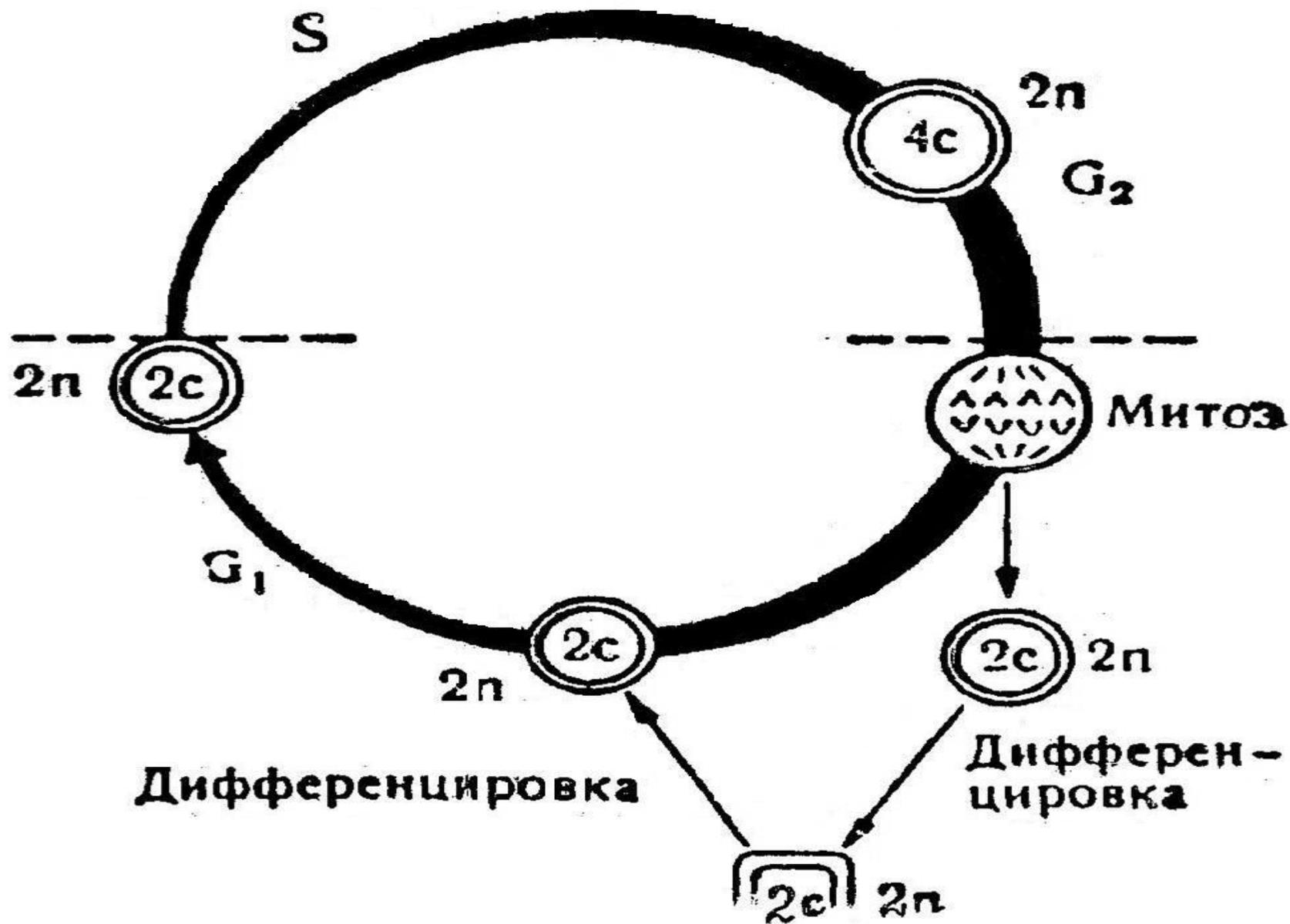
План лекции

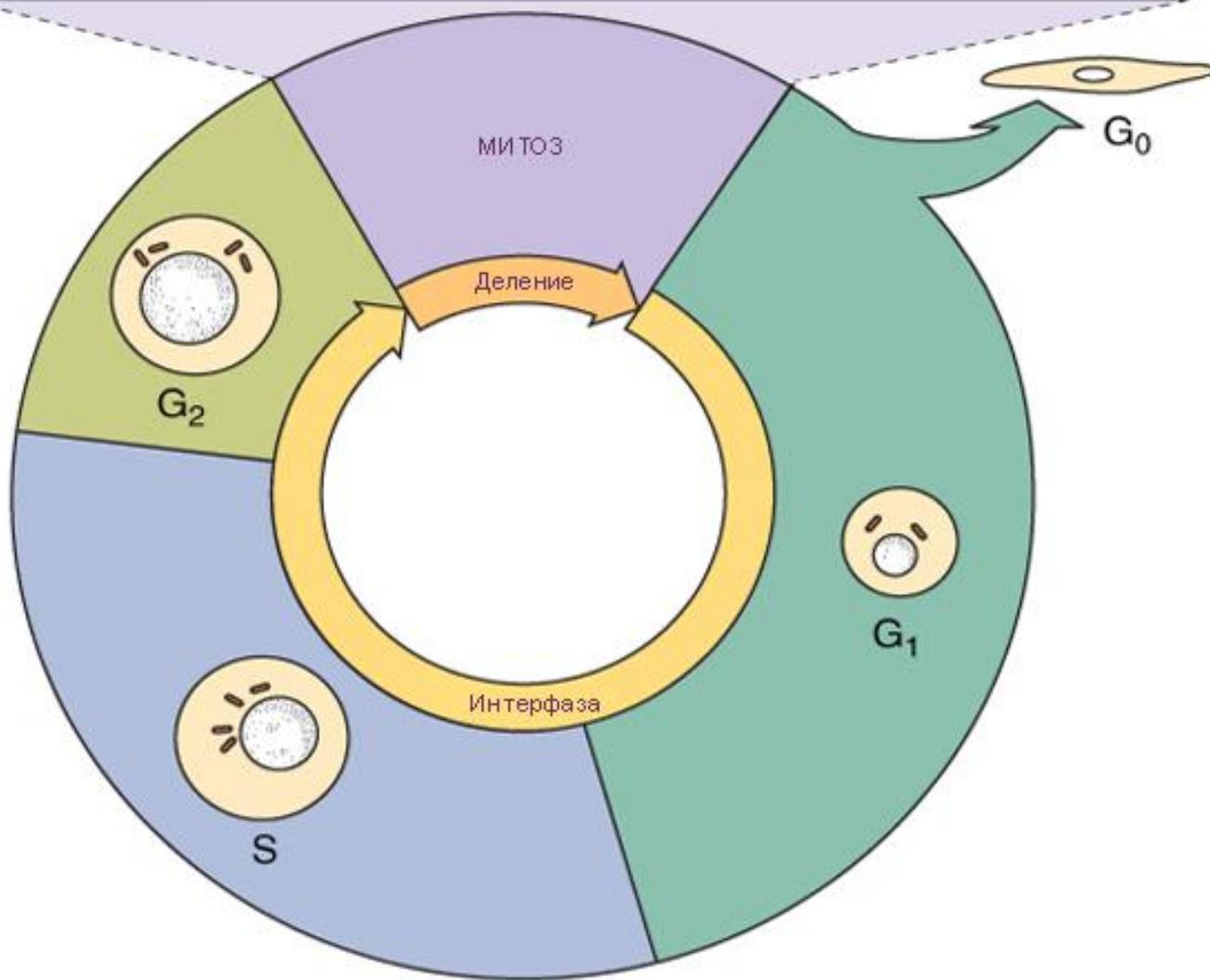
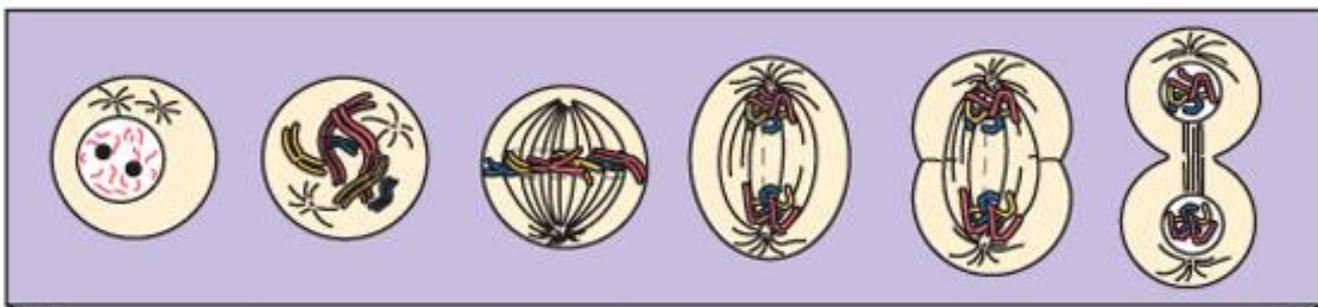
- 1. Жизненный цикл клетки, его периодизация.**
- 2. Митотический цикл, его периоды, их характеристика.**
- 3. Митоз, характеристика его стадий. Регуляция митоза. Биологическое значение митоза.**
- 4. Амитоз, его характеристика.**
- 5. Понятие мейоза.**
- 6. Политения, эндомитоз, их характеристика.**



Клеточный цикл

Митотический цикл





МИТОЗ

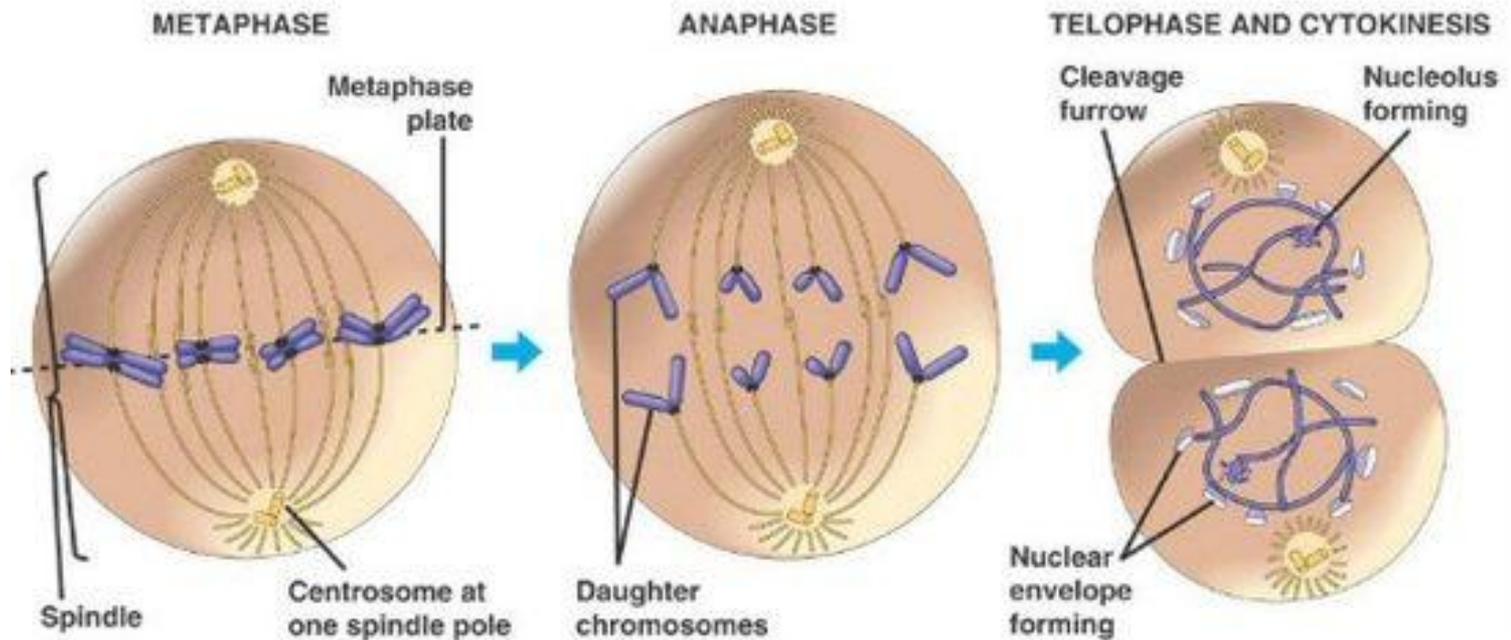
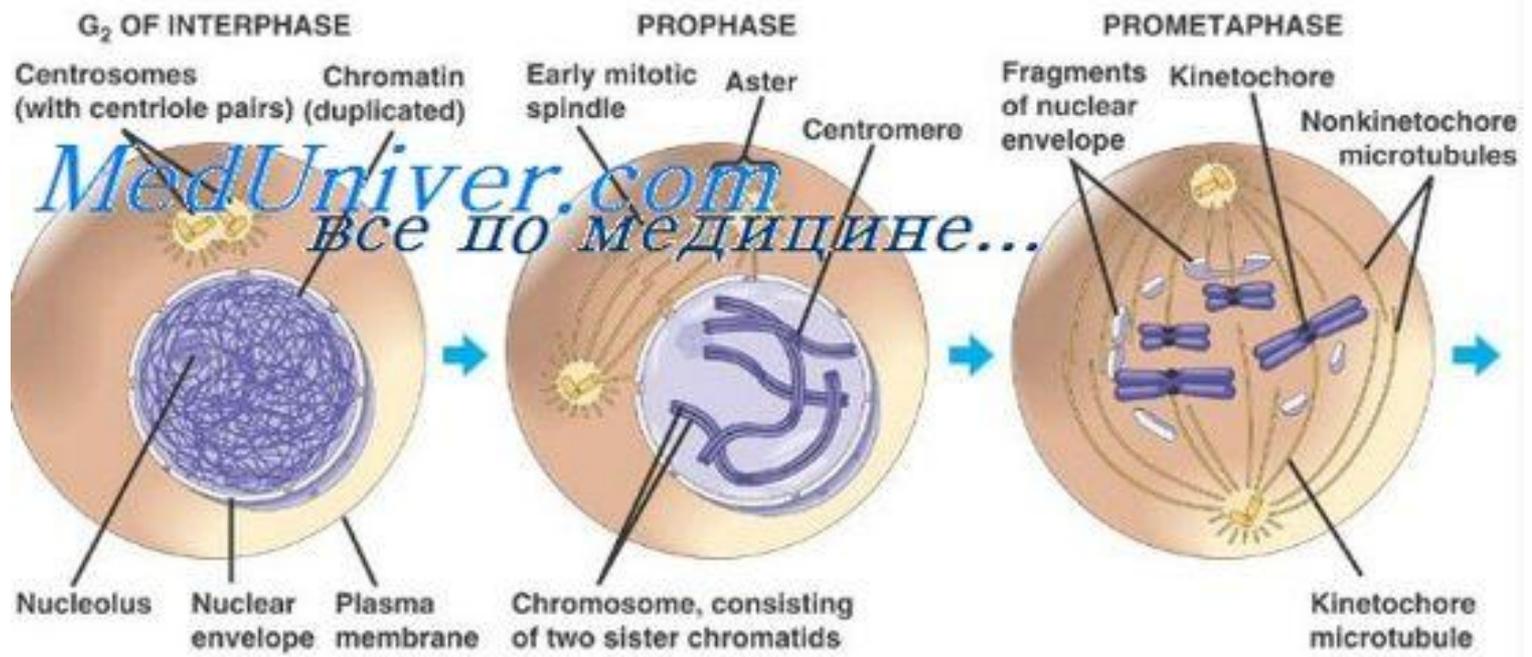
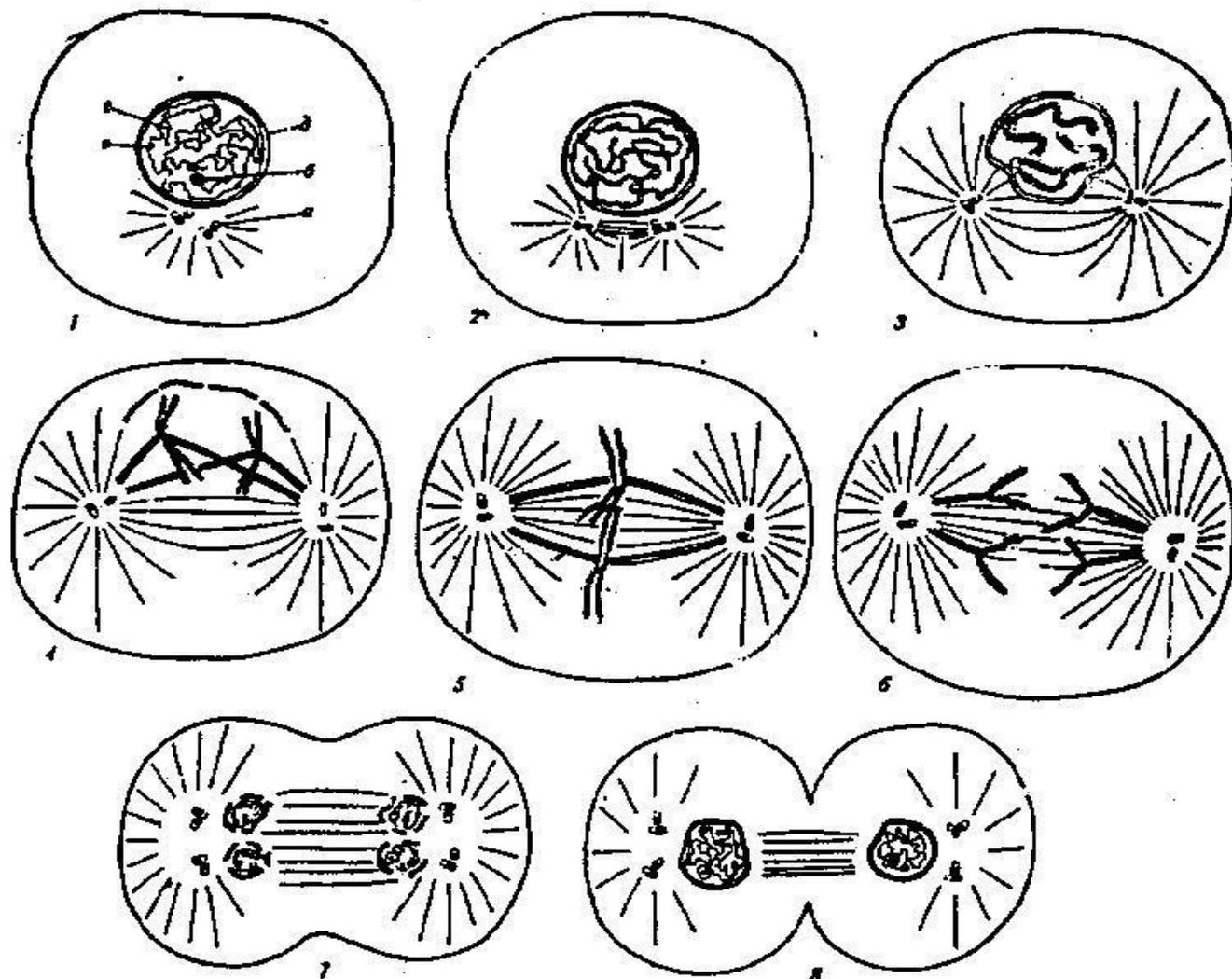
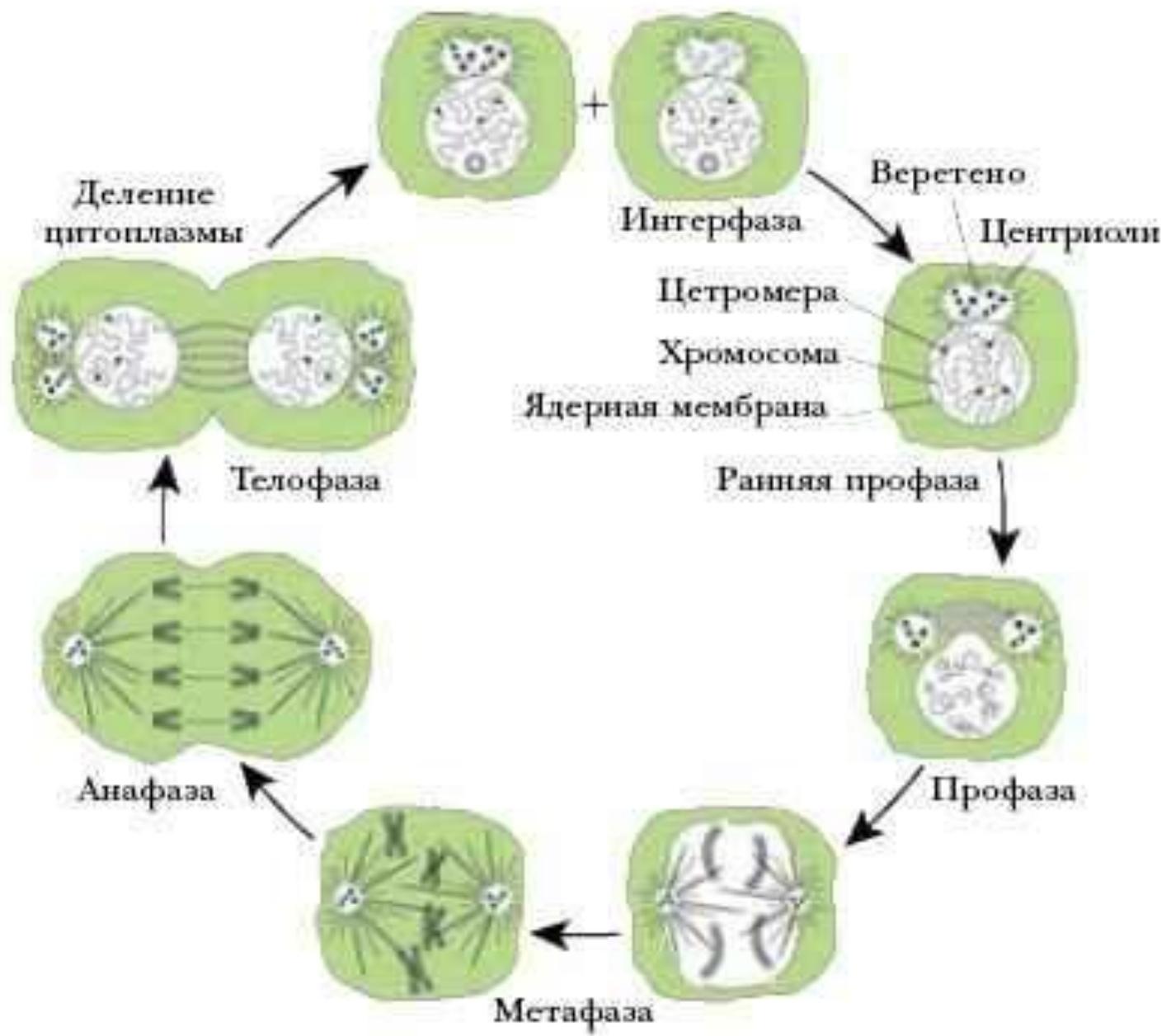


Схема митоза в животной клетке



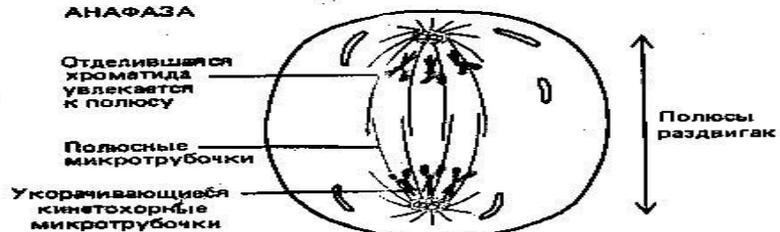
Митоз



ПРОФАЗА



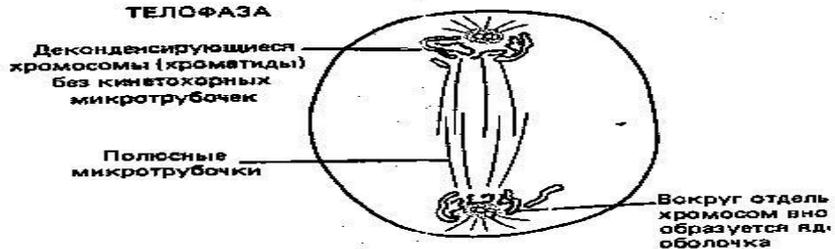
АНАФАЗА



ПРОМЕТАФАЗА



ТЕЛОФАЗА



МЕТАФАЗА



ЦИТОКИНЕЗ

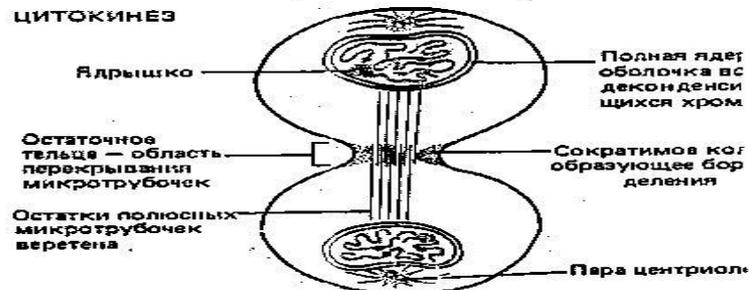
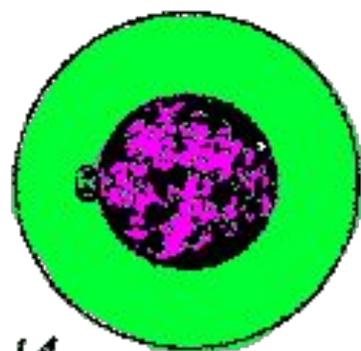


Рис. 11-41. Шесть фаз клеточного деления.

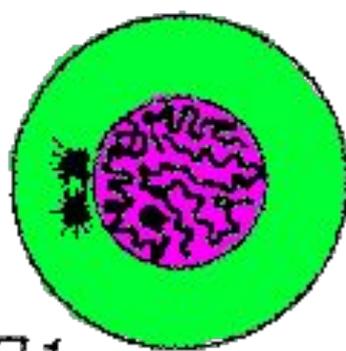
**АНАФАЗА МИТОЗА
В КЛЕТКЕ
ЖИВОТНЫХ**



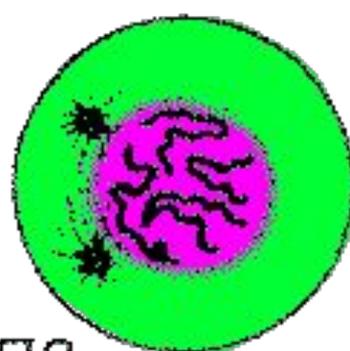
DATE



И



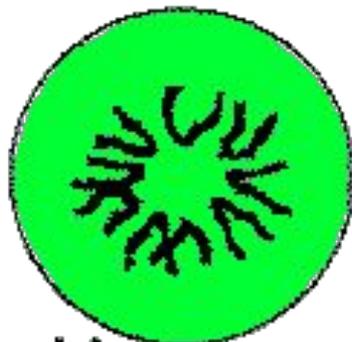
П1



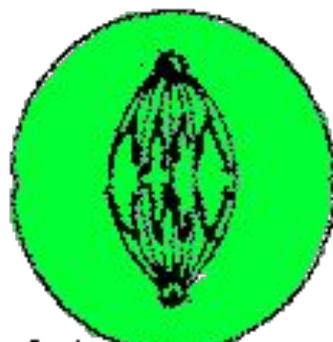
П2



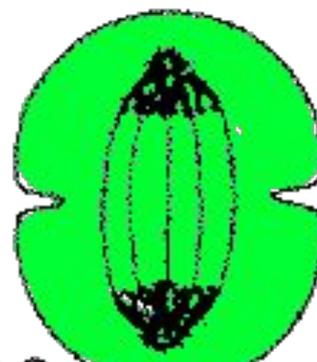
М



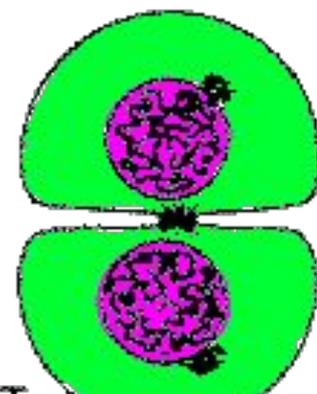
М



А1



А2



Т

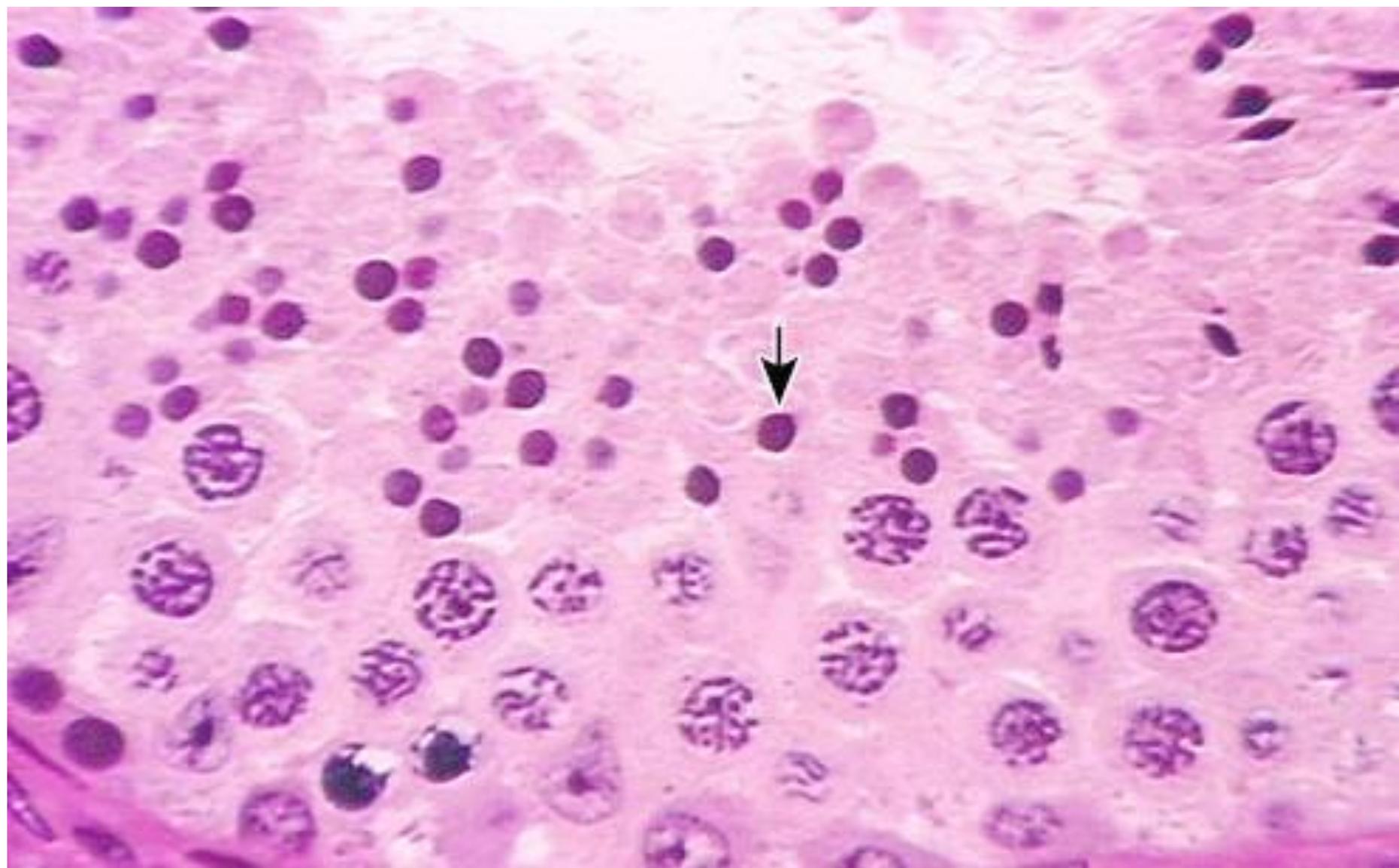
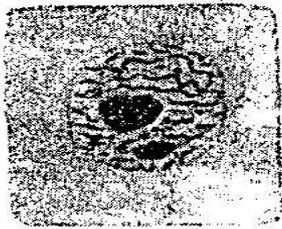


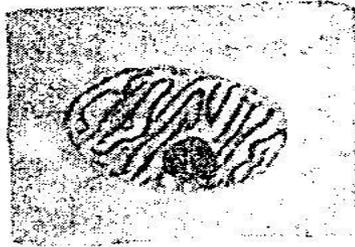
СХЕМА МИТОЗА

В КЛЕТКЕ

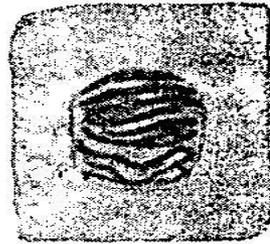
РАСТЕНИЙ



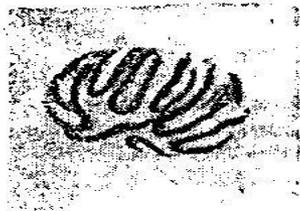
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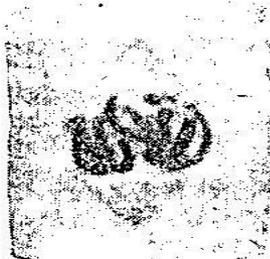
B



B



C



D



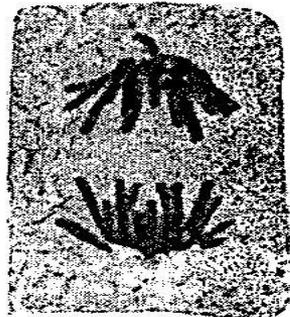
E



Ж



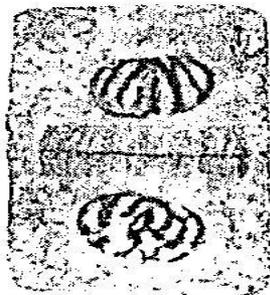
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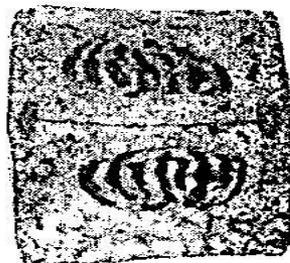
И



K



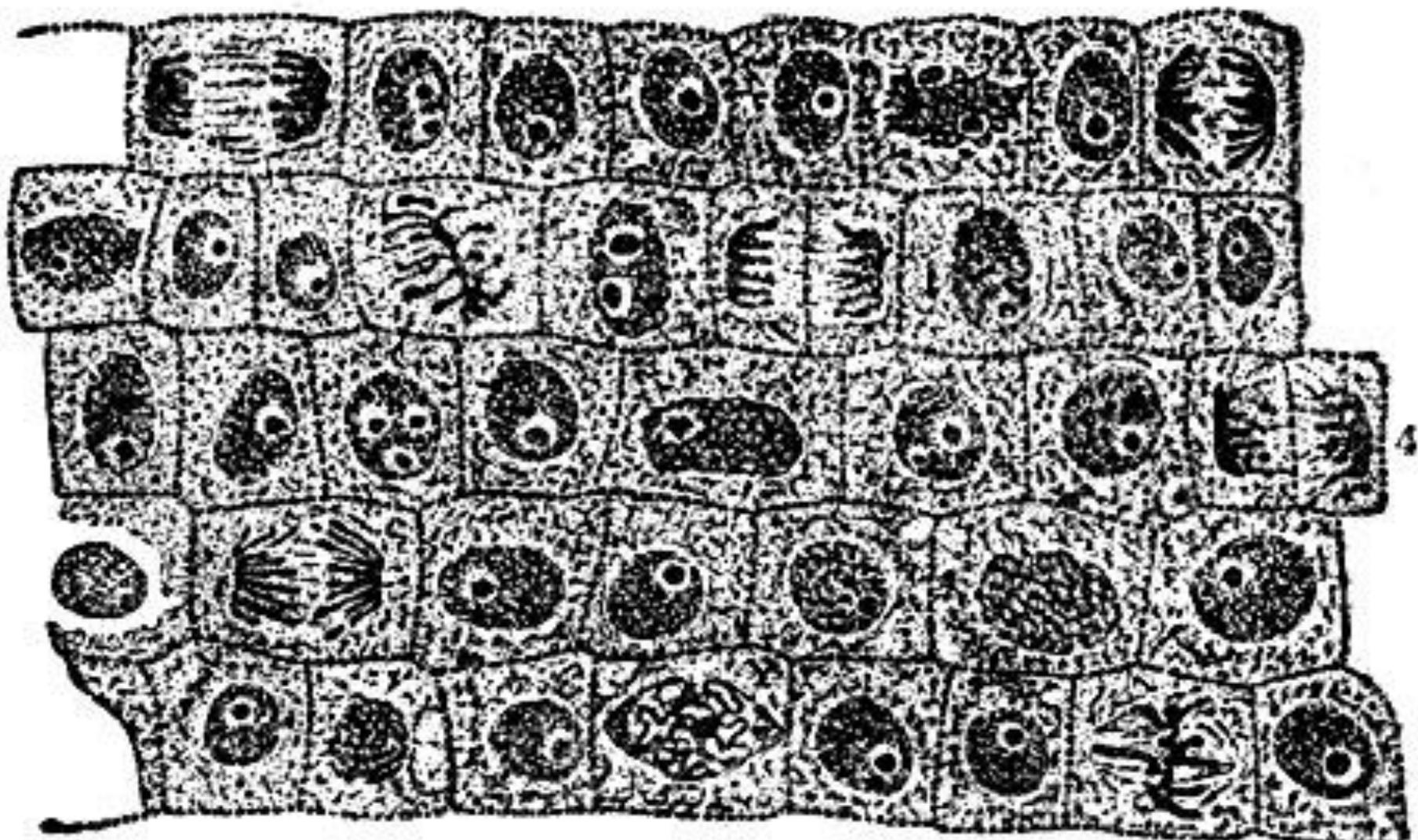
Л



M

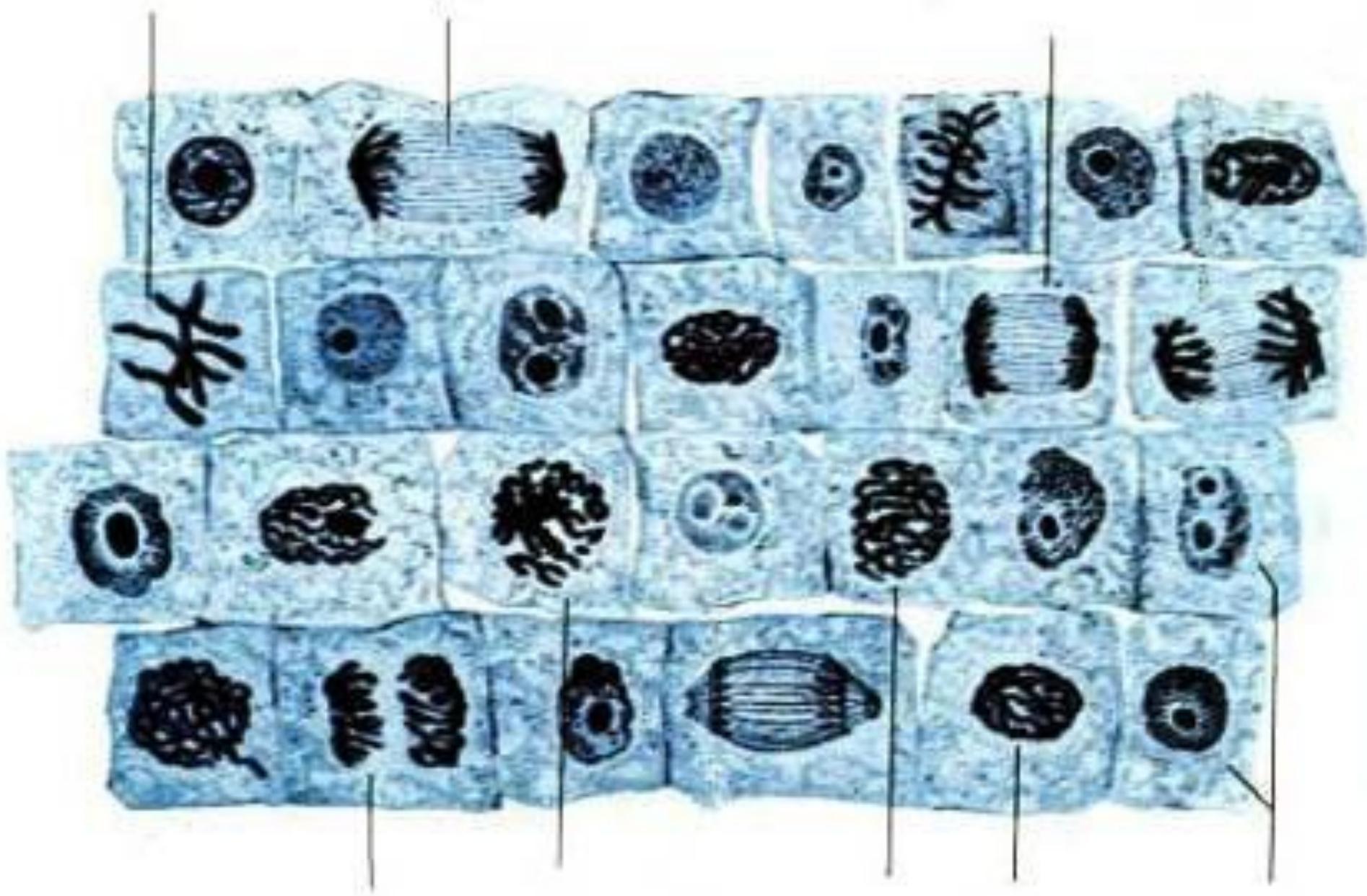
1

3



2

4

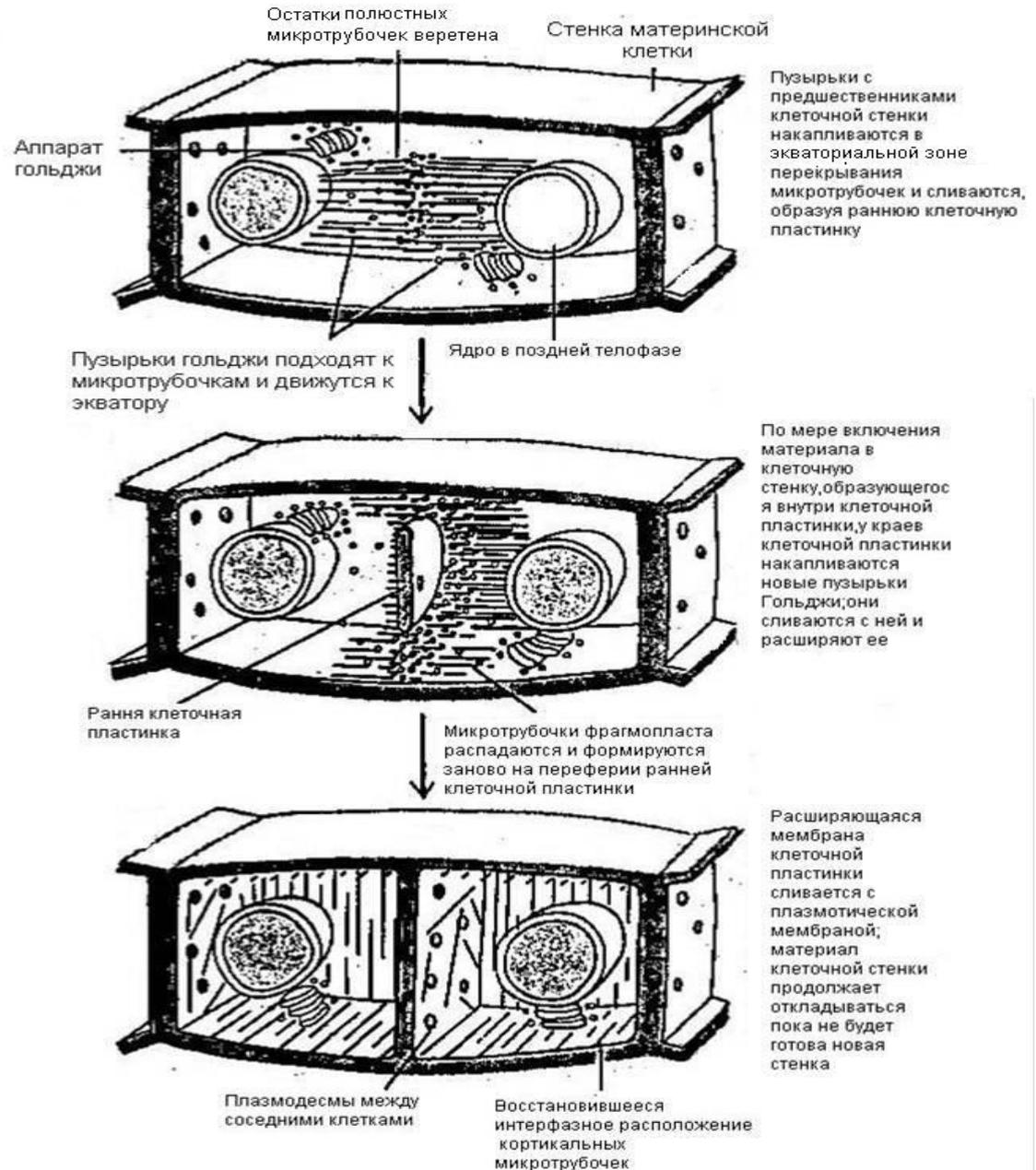


ТЕЛОФАЗА МИТОЗА

**В КЛЕТКЕ
РАСТЕНИЙ**

Молекулярная организация клетки

Здесь схематически представлен ход цитокинеза в клетках высших растений, имеющих жесткую клеточную стенку



ЗНАЧЕНИЕ

МИТОЗА



1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16



17



18



X



19



20



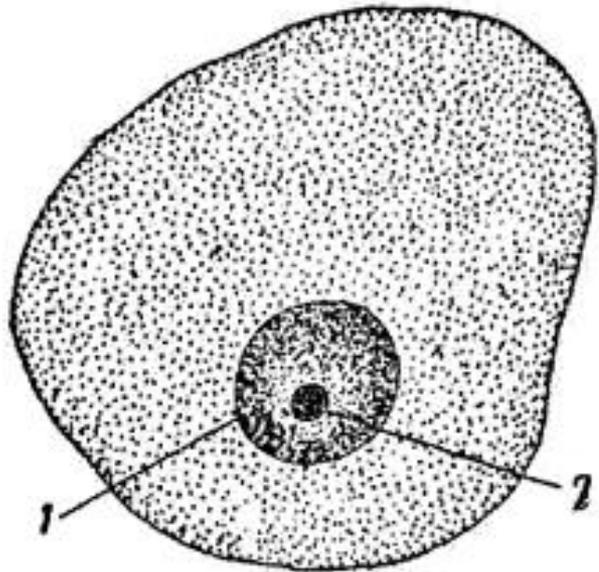
21



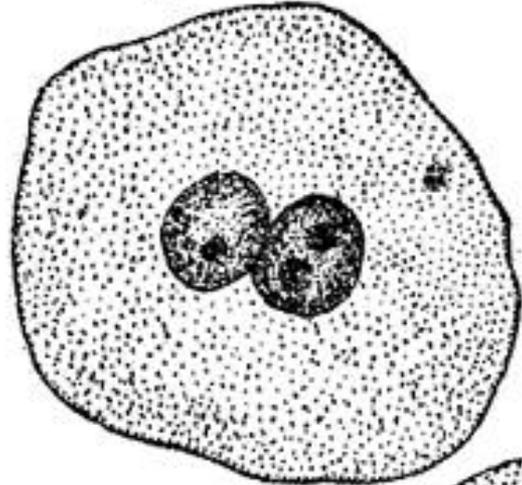
22

ШИЗОГОНИЯ

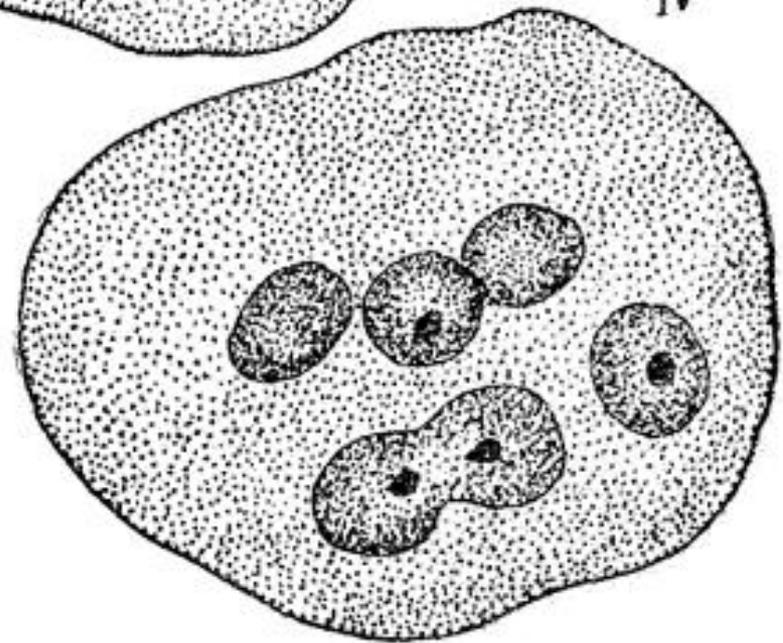
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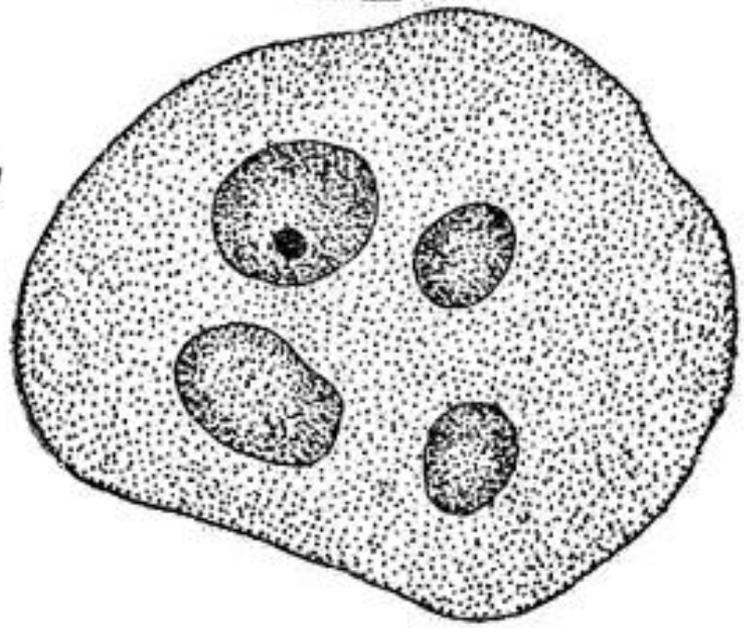
II



IV

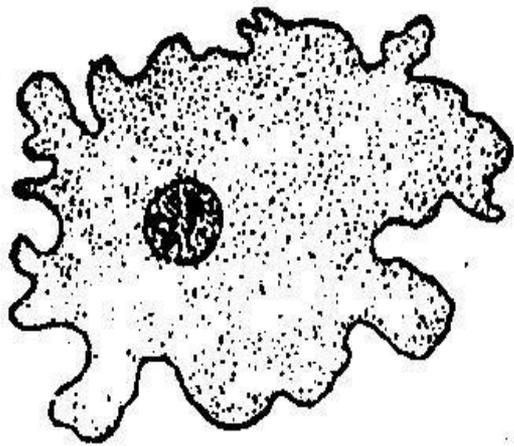


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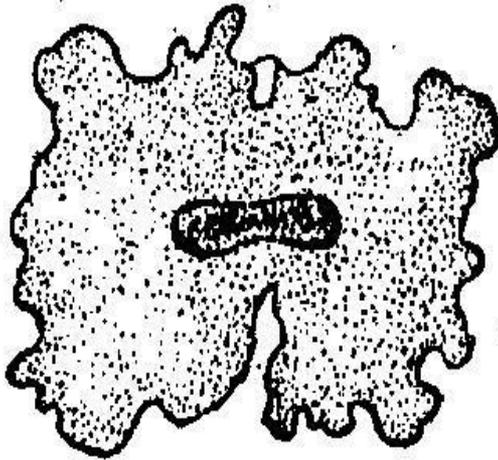


АМИТОЗ

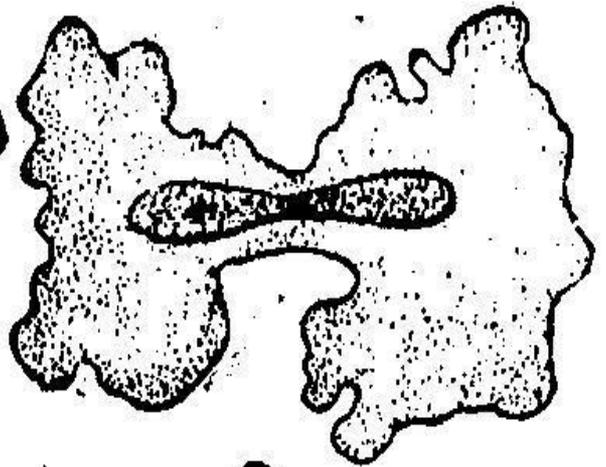
АМИТОЗ



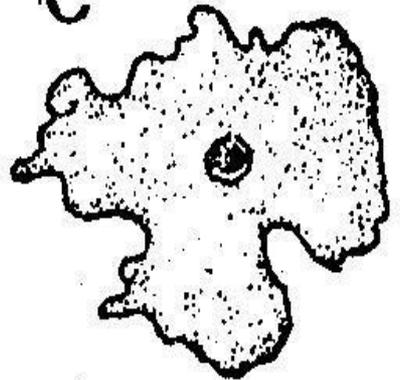
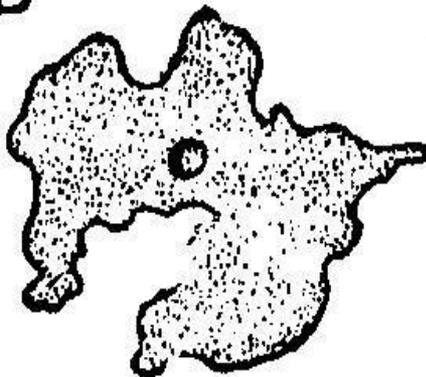
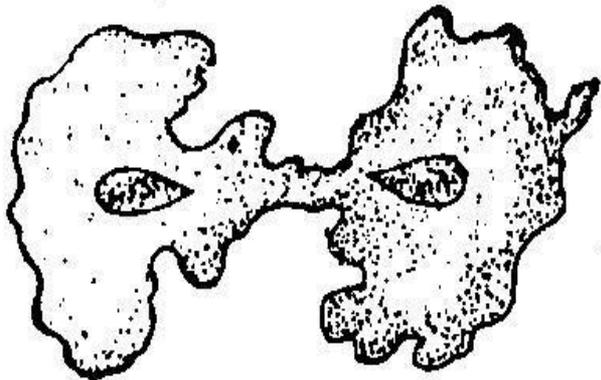
A



B

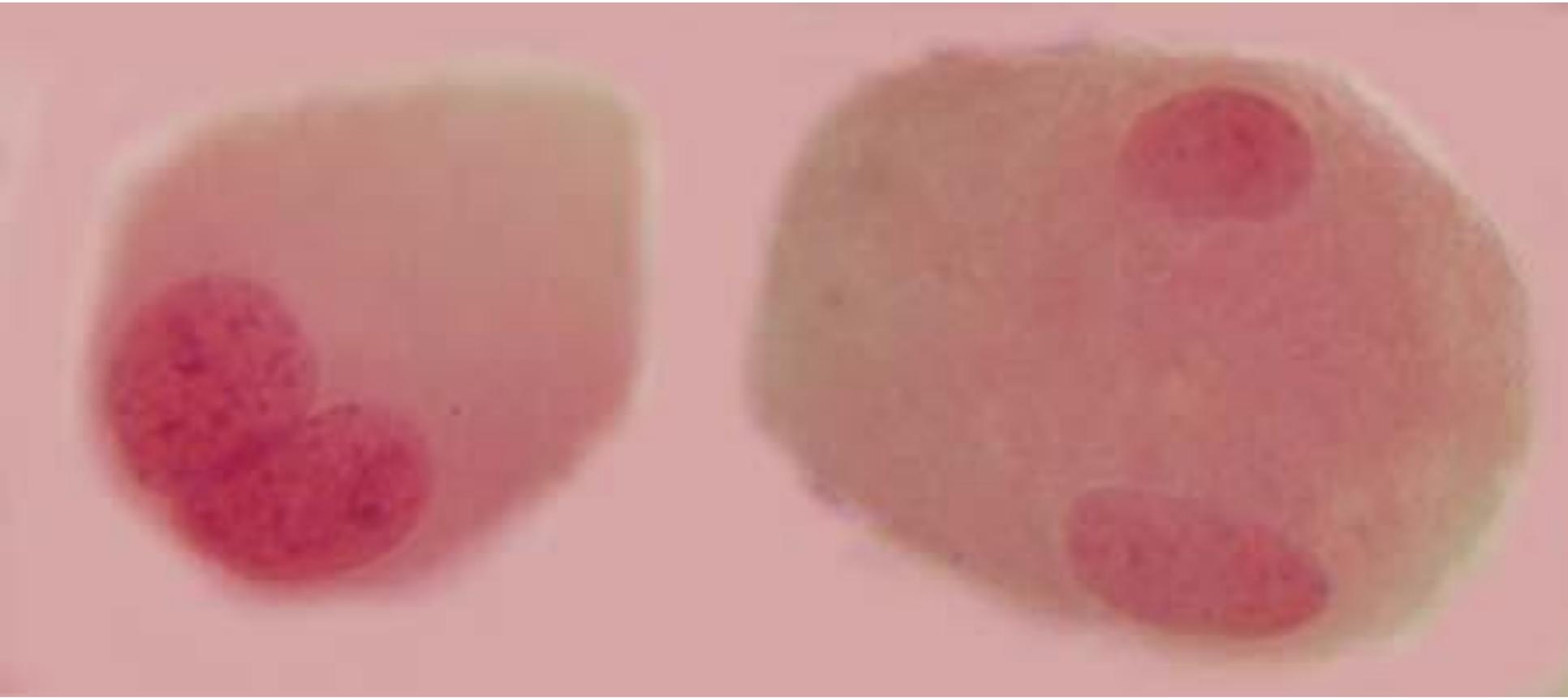


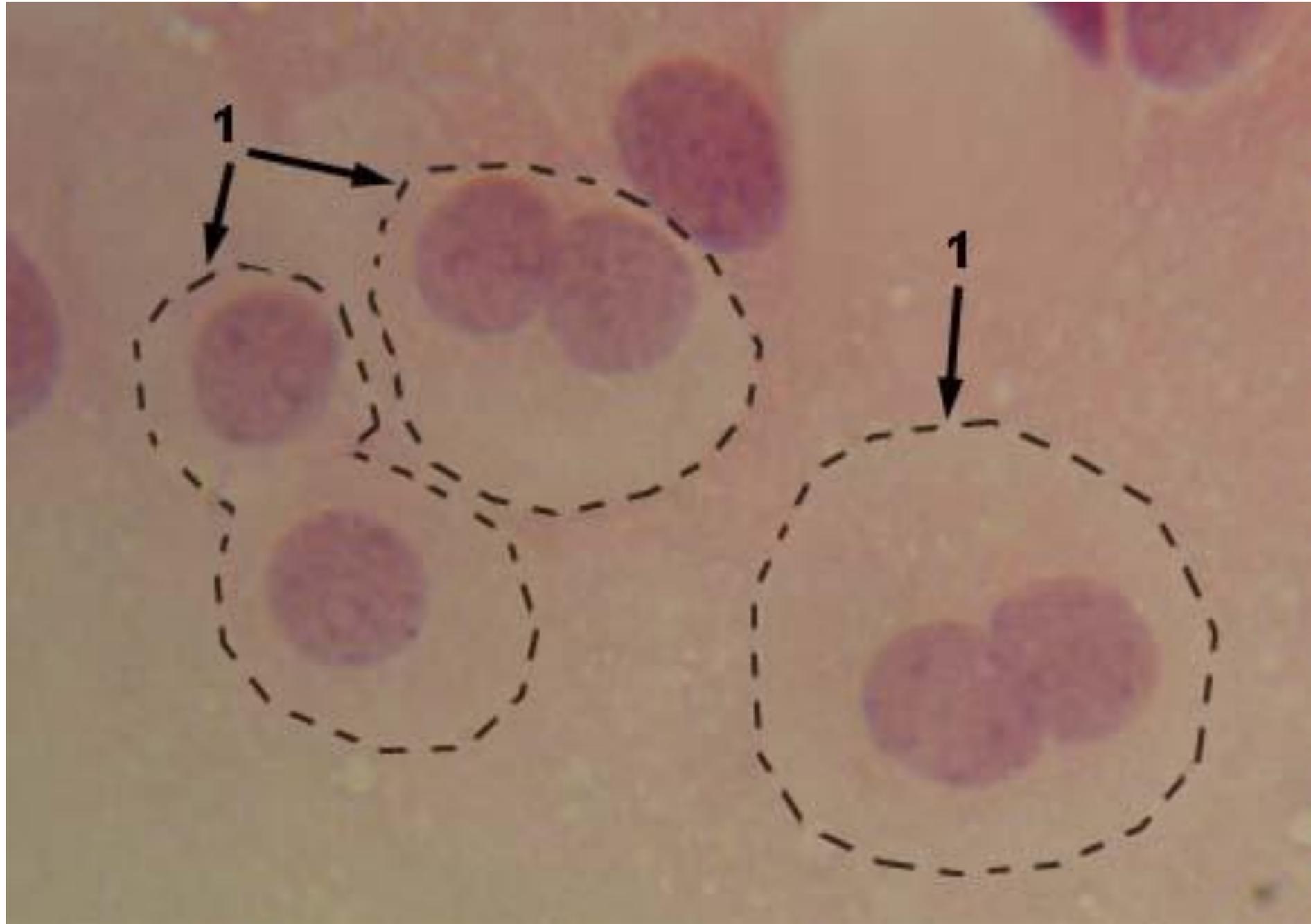
C



F

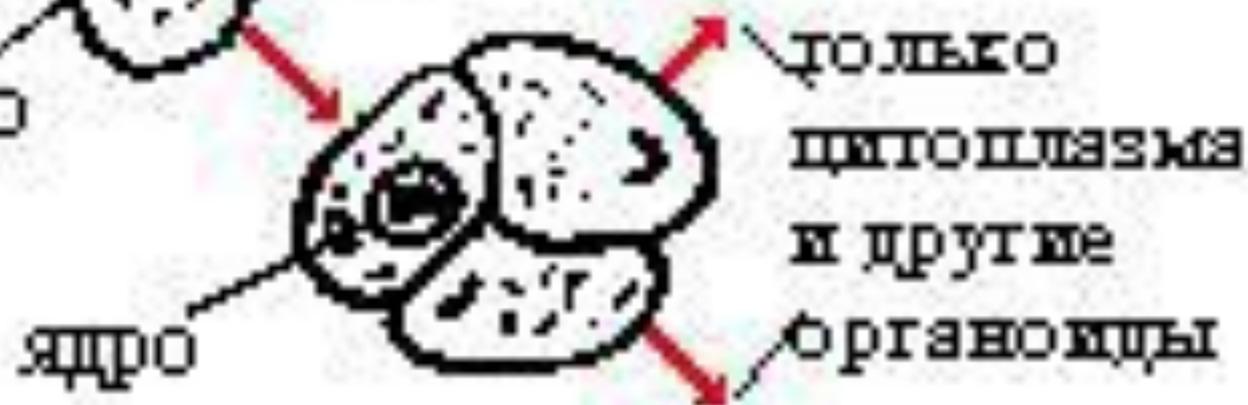








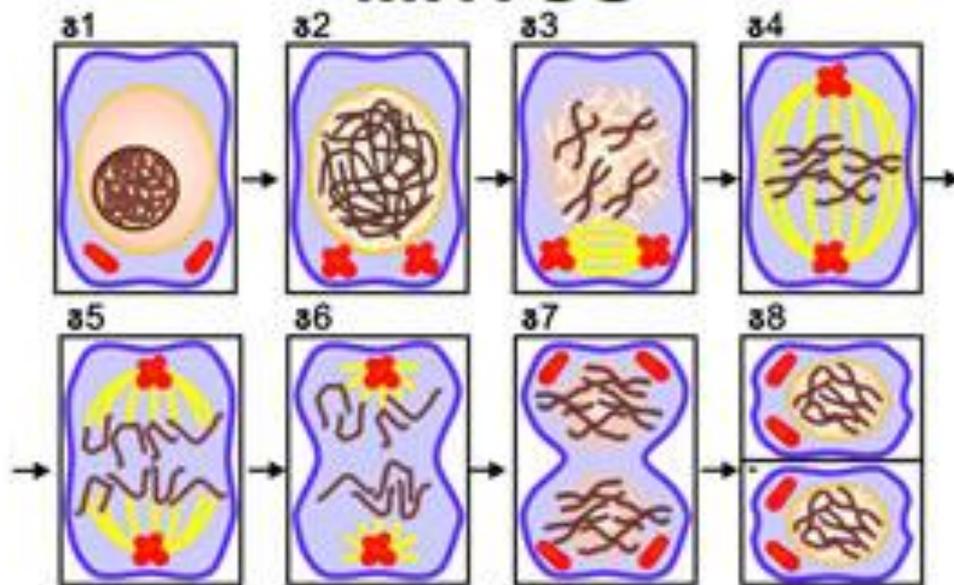
вира нет.
дальше эта
клетка делиться
не будет



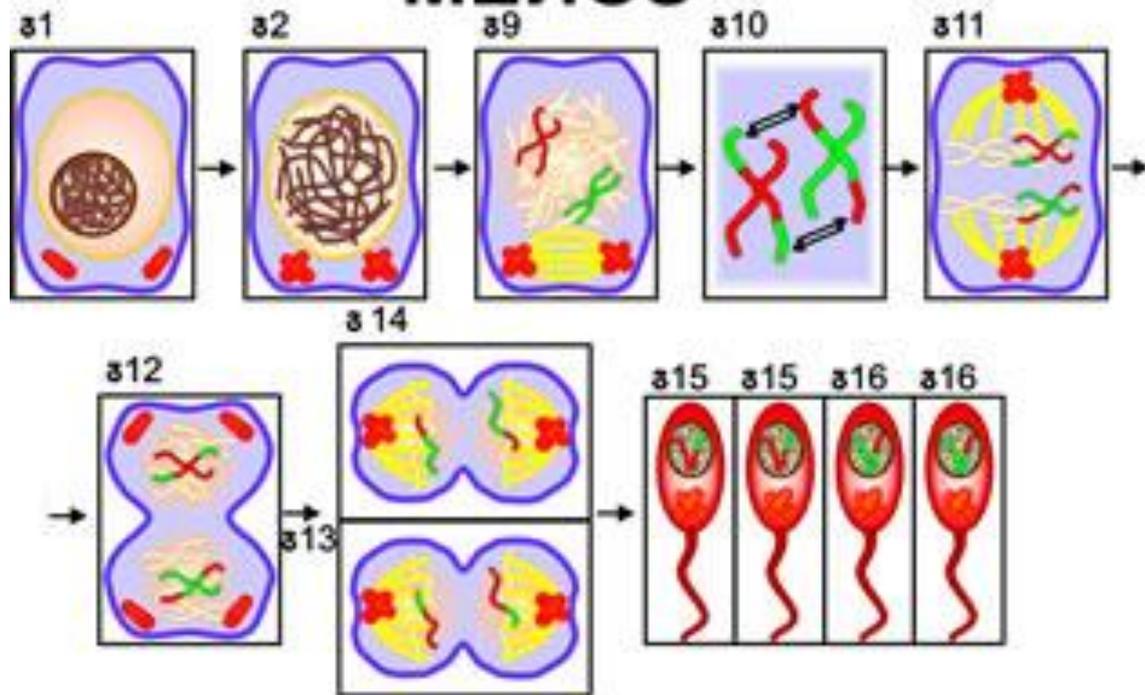
МЕЙОЗ

ПОНЯТИЕ МЕЙОЗА.
ЕГО СУЩНОСТЬ

МИТОЗ



МЕЙОЗ



Митоз

Мейоз

1 деление 2 деление

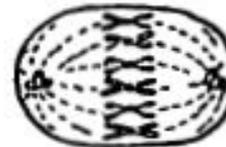
Интерфаза



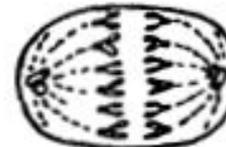
Профаза



Метафаза



Анафаза



Телофаза

