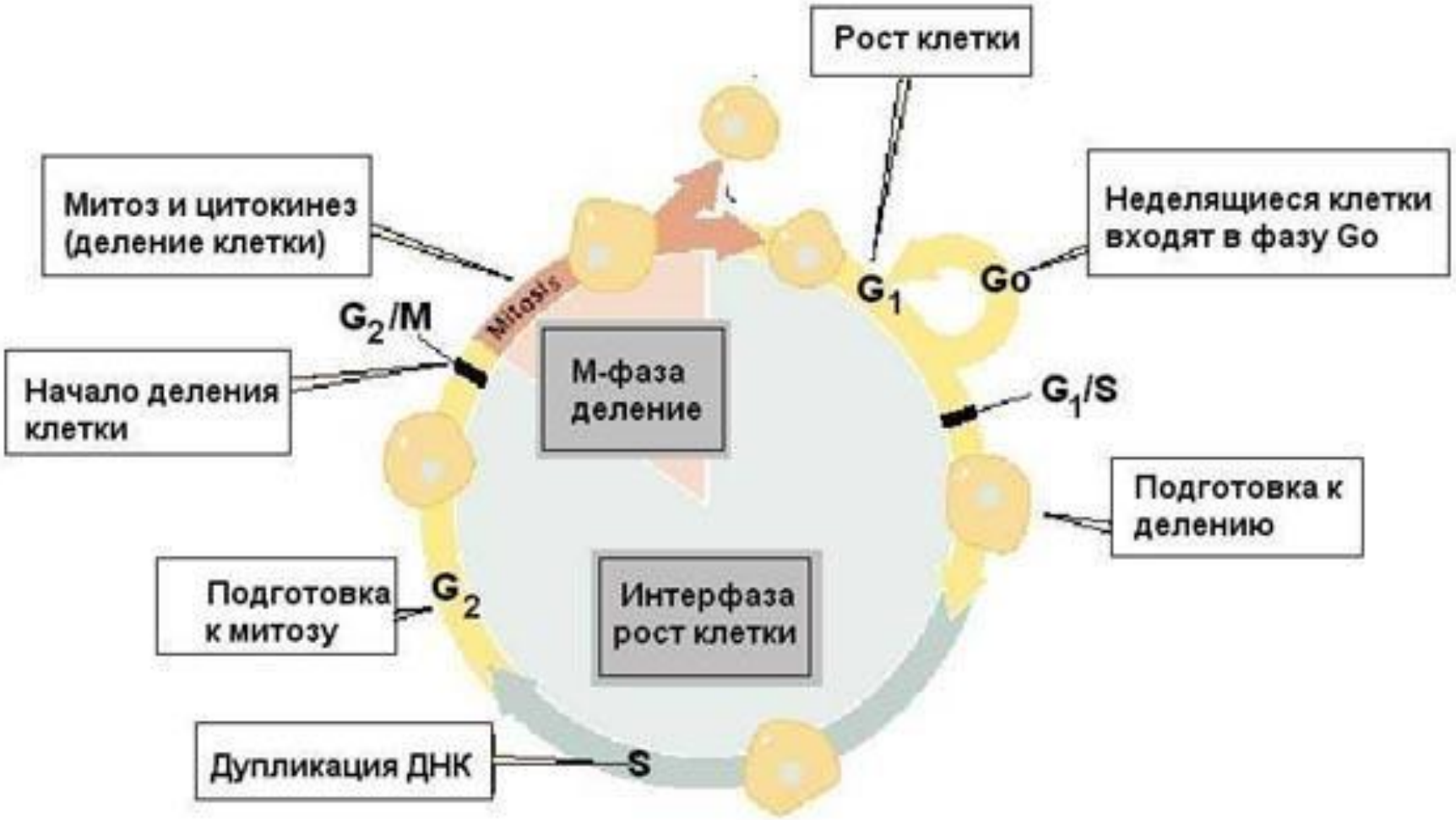
Временная организация клетки

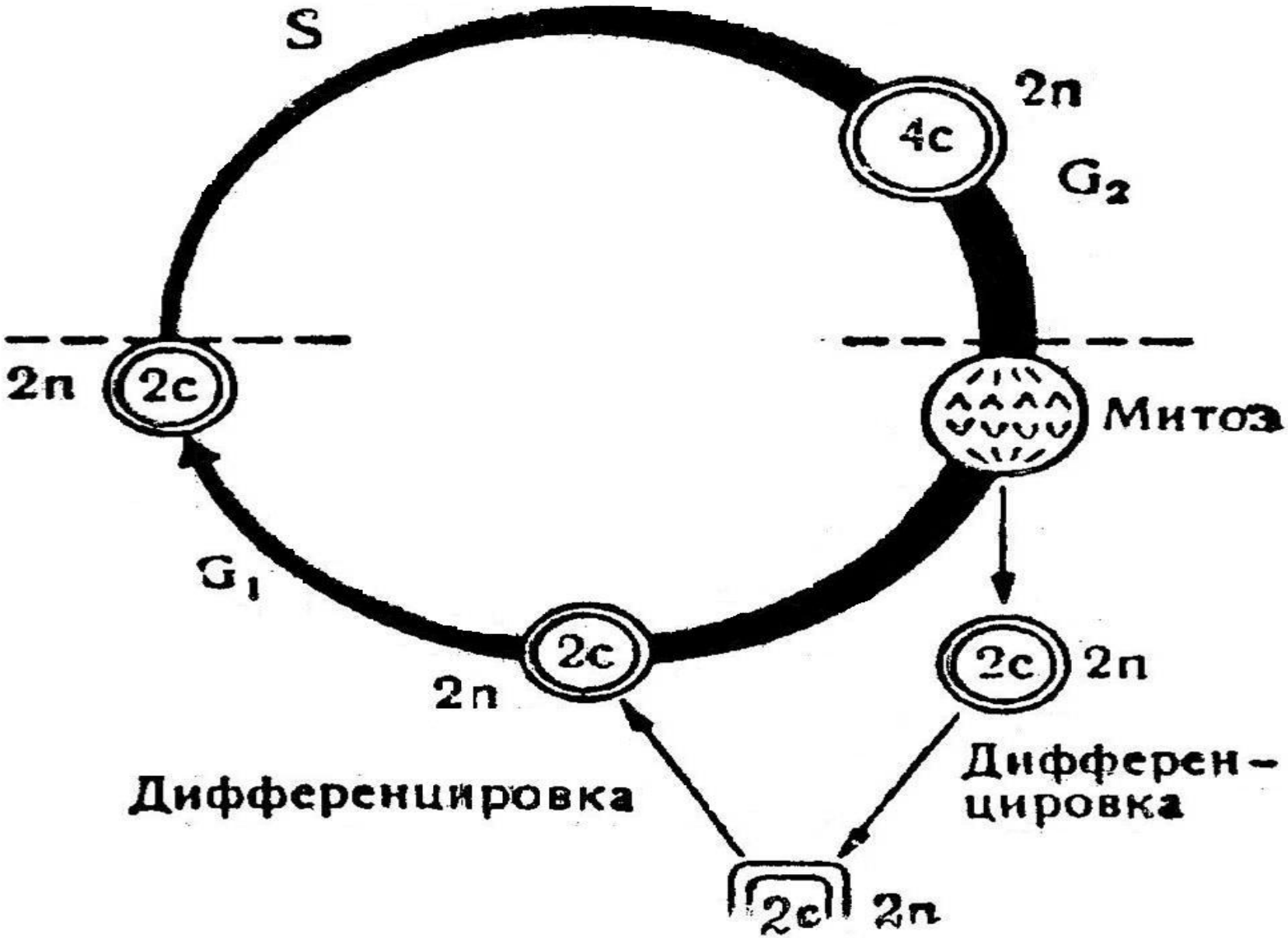
План лекции

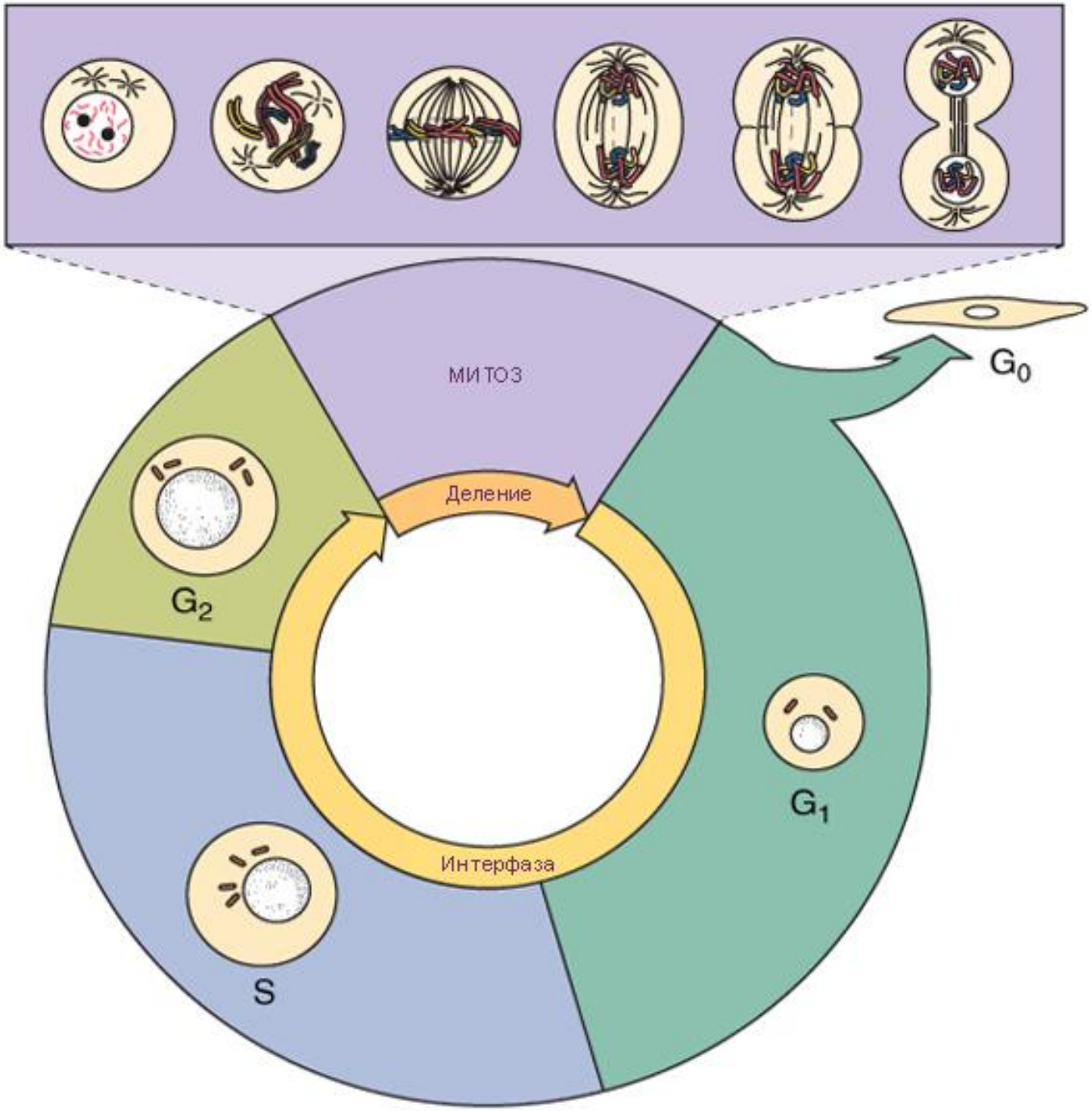
1. **Жизненный цикл клетки, его периодизация.**
2. **Митотический цикл, его периоды, их характеристика.**
3. **Митоз, характеристика его стадий. Регуляция митоза. Биологическое значение митоза.**
4. **Амитоз, его характеристика.**
5. **Понятие мейоза.**
6. **Политения, эндомитоз, их характеристика.**

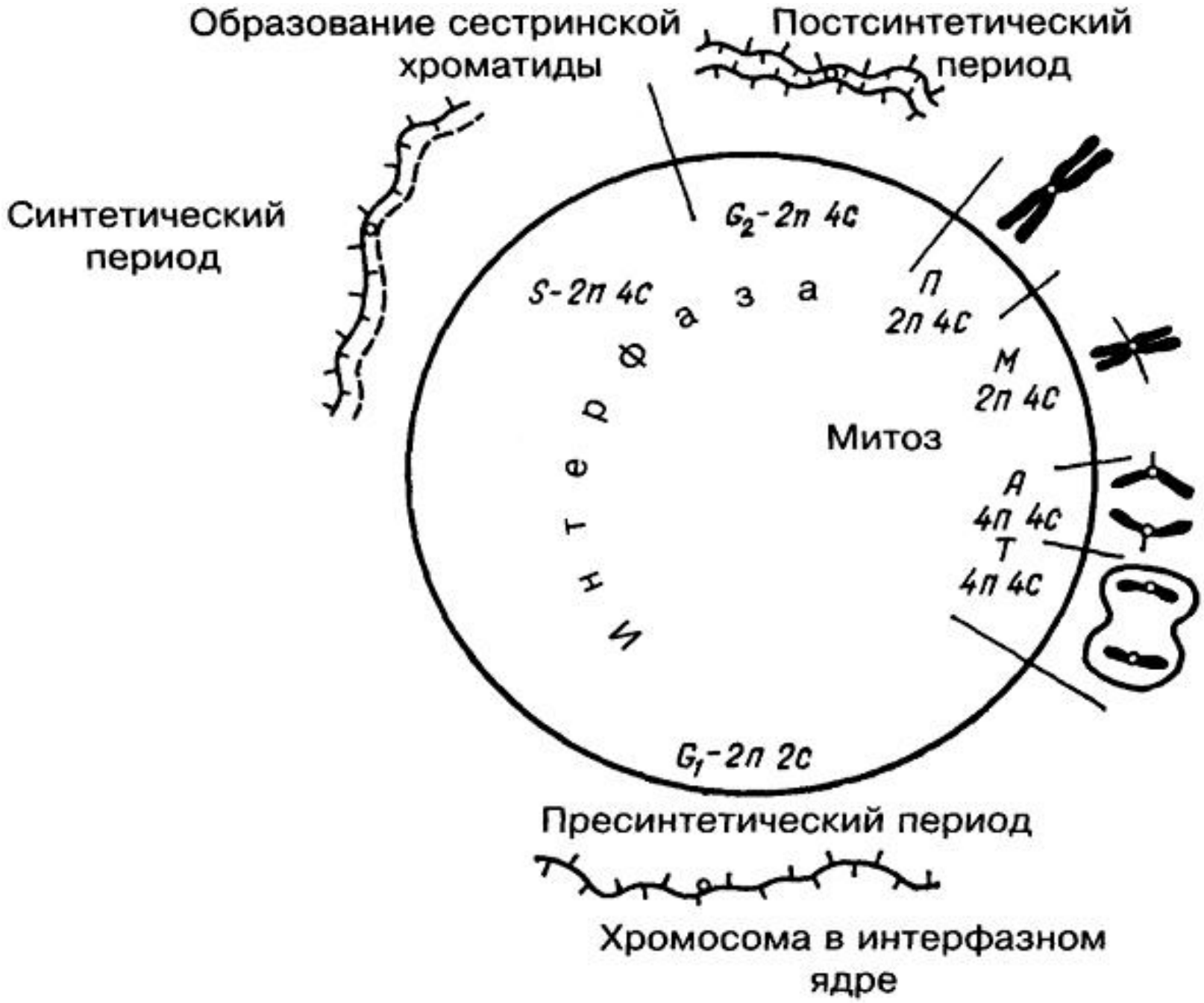


Клеточный цикл

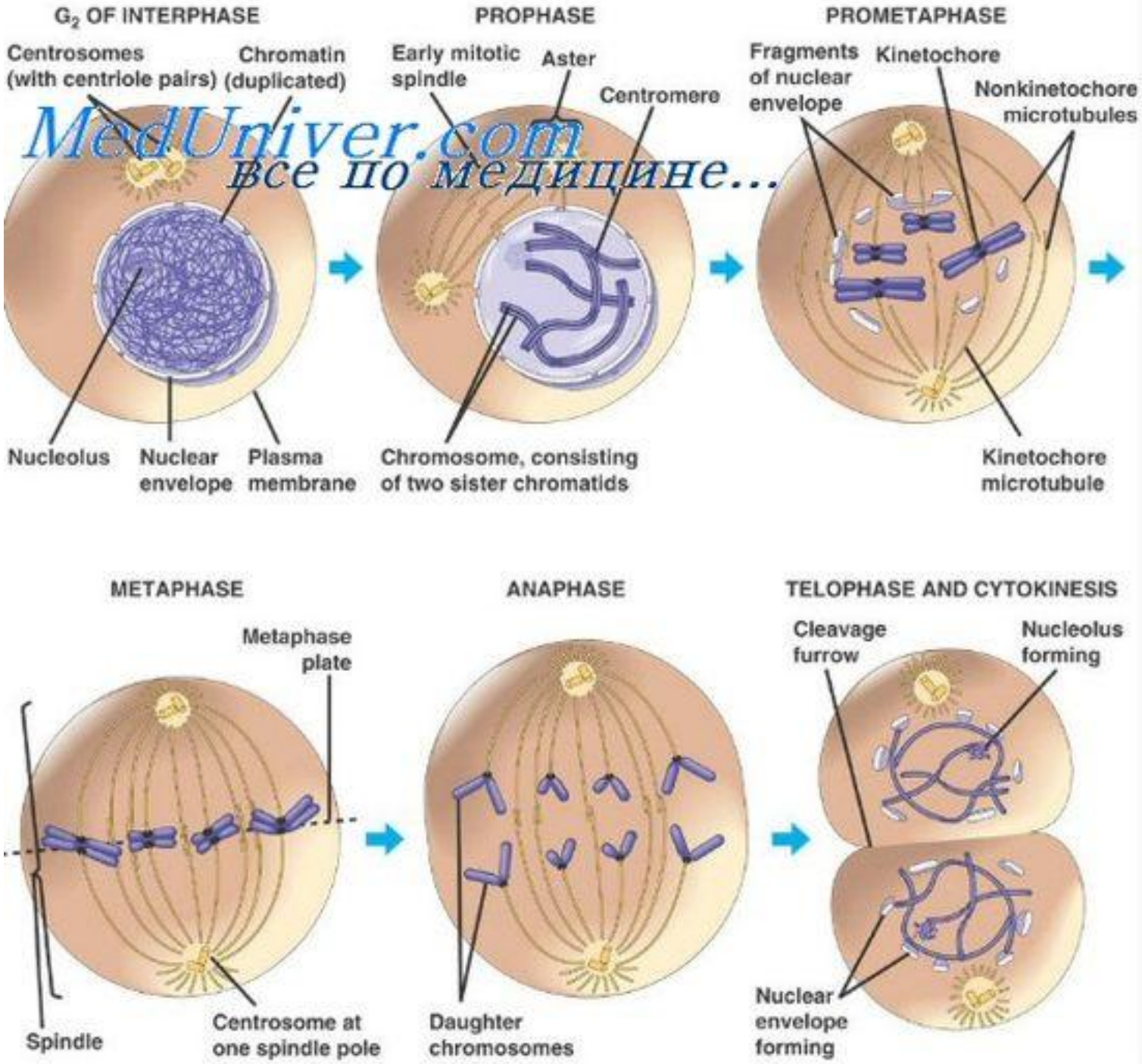
Митотический цикл




МИТОЗ
Деление
Интерфаза
G_0
G_1
S
G_2

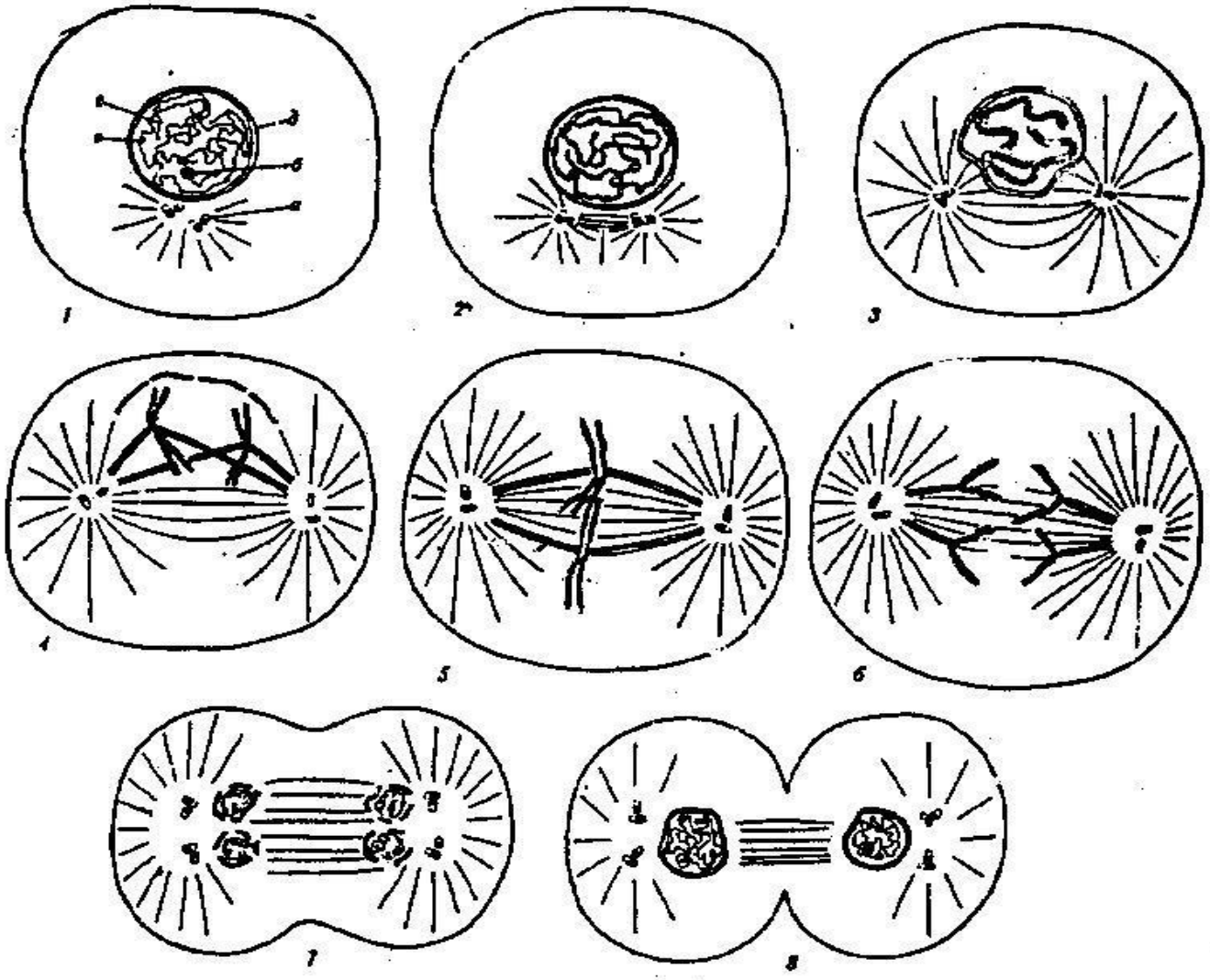

Образование сестринской хроматиды
Постсинтетический период
Синтетический период
G_2-2п 4с
S-2п 4с
Интерфаза
П
2п 4с
М
2п 4с
Митоз
А
4п 4с
Т
4п 4с
G_1-2п 2с
Пресинтетический период
Хромосома в интерфазном ядре

МИТОЗ

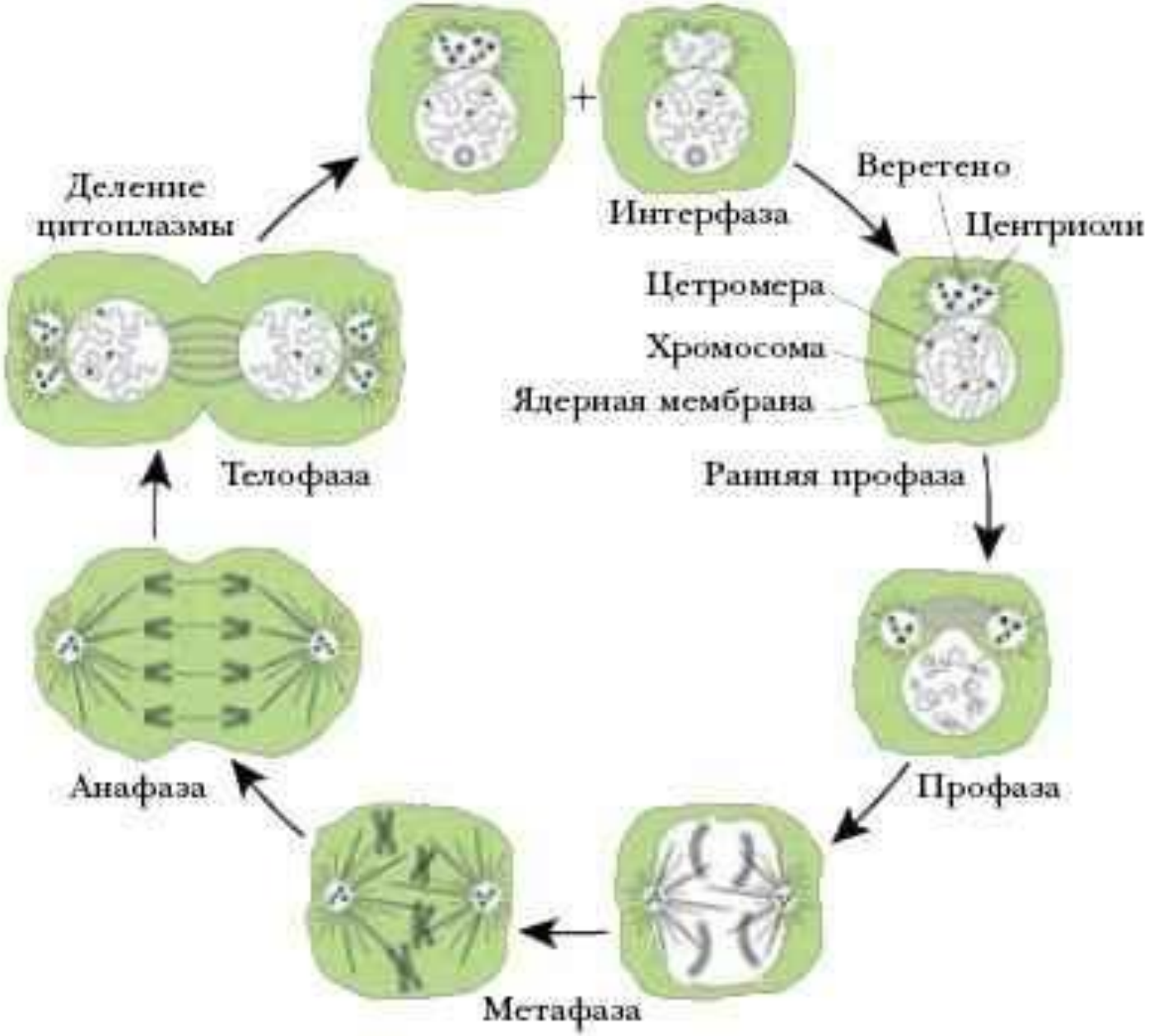


MedUniver.com
Все по медицине...

Схема митоза в животной клетки



Митоз


Интерфаза
Веретено
Центриоли
Цетромера
Хромосома
Ядерная мембрана
Ранняя профаза
Профаза
Метафаза
Анафаза
Телофаза
Деление
цитоплазмы

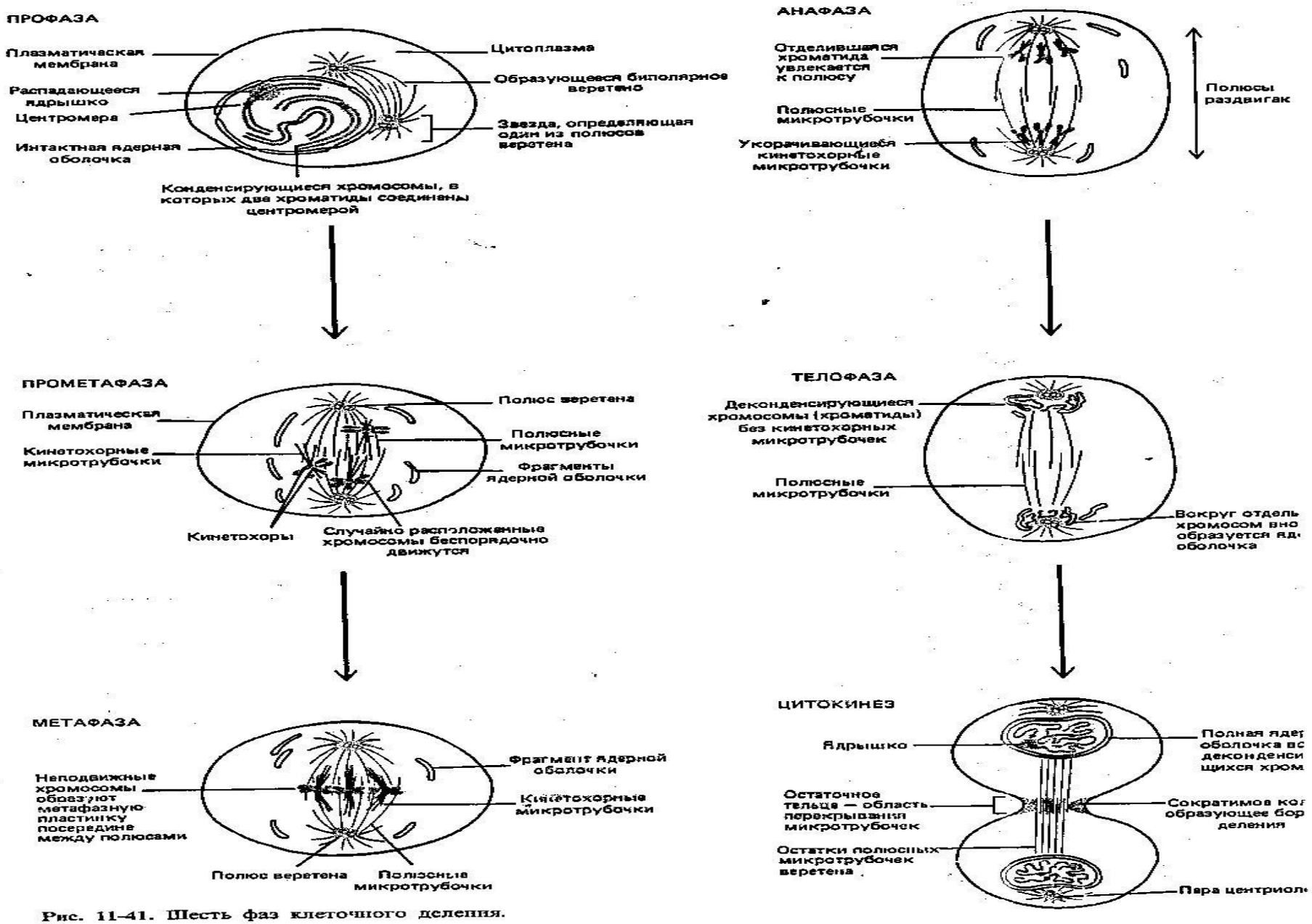
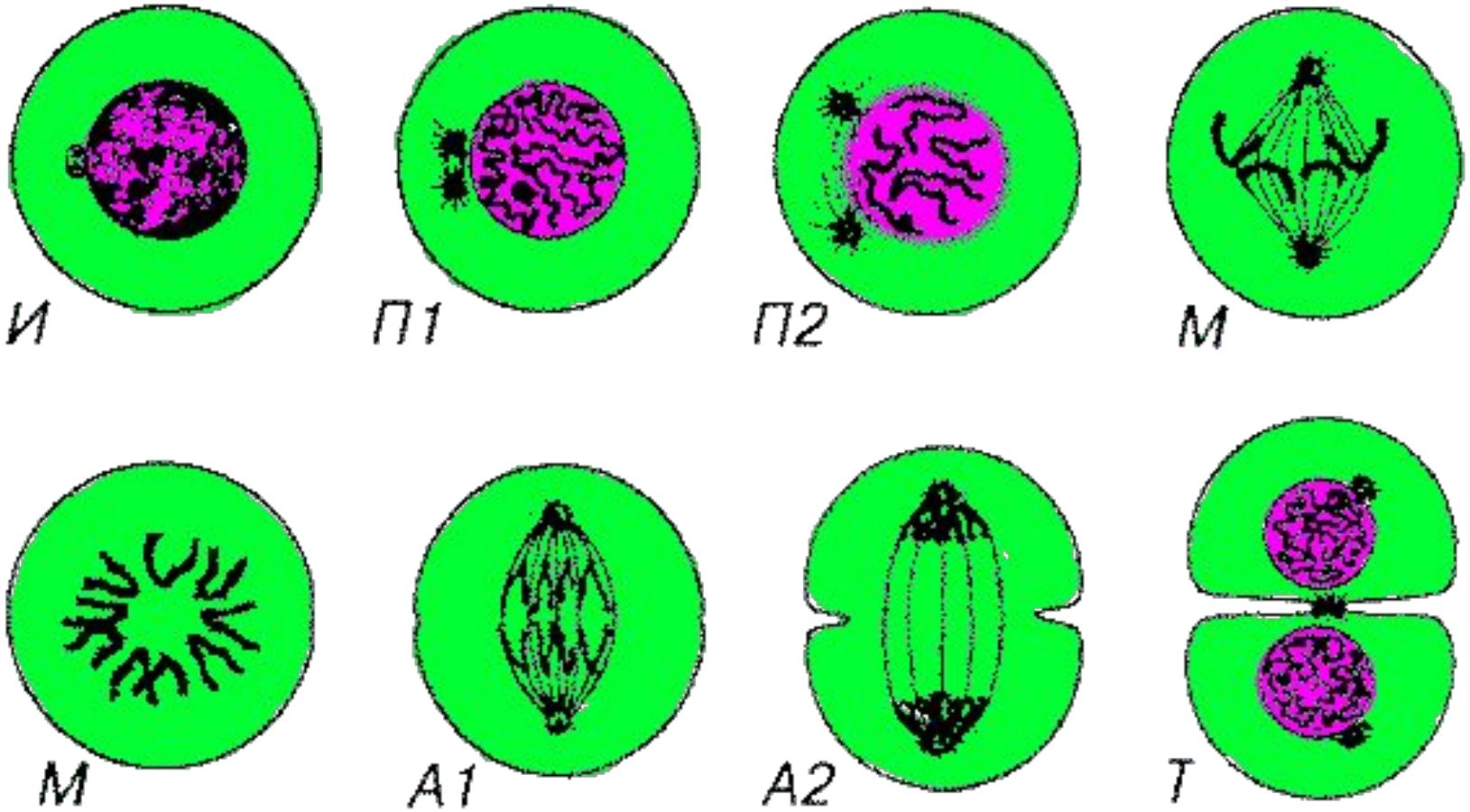


Рис. 11-41. Шесть фаз клеточного деления.

АНАФАЗА МИТОЗА

В КЛЕТКЕ ЖИВОТНЫХ


И
П1
П2
М
М
А1
А2
Т

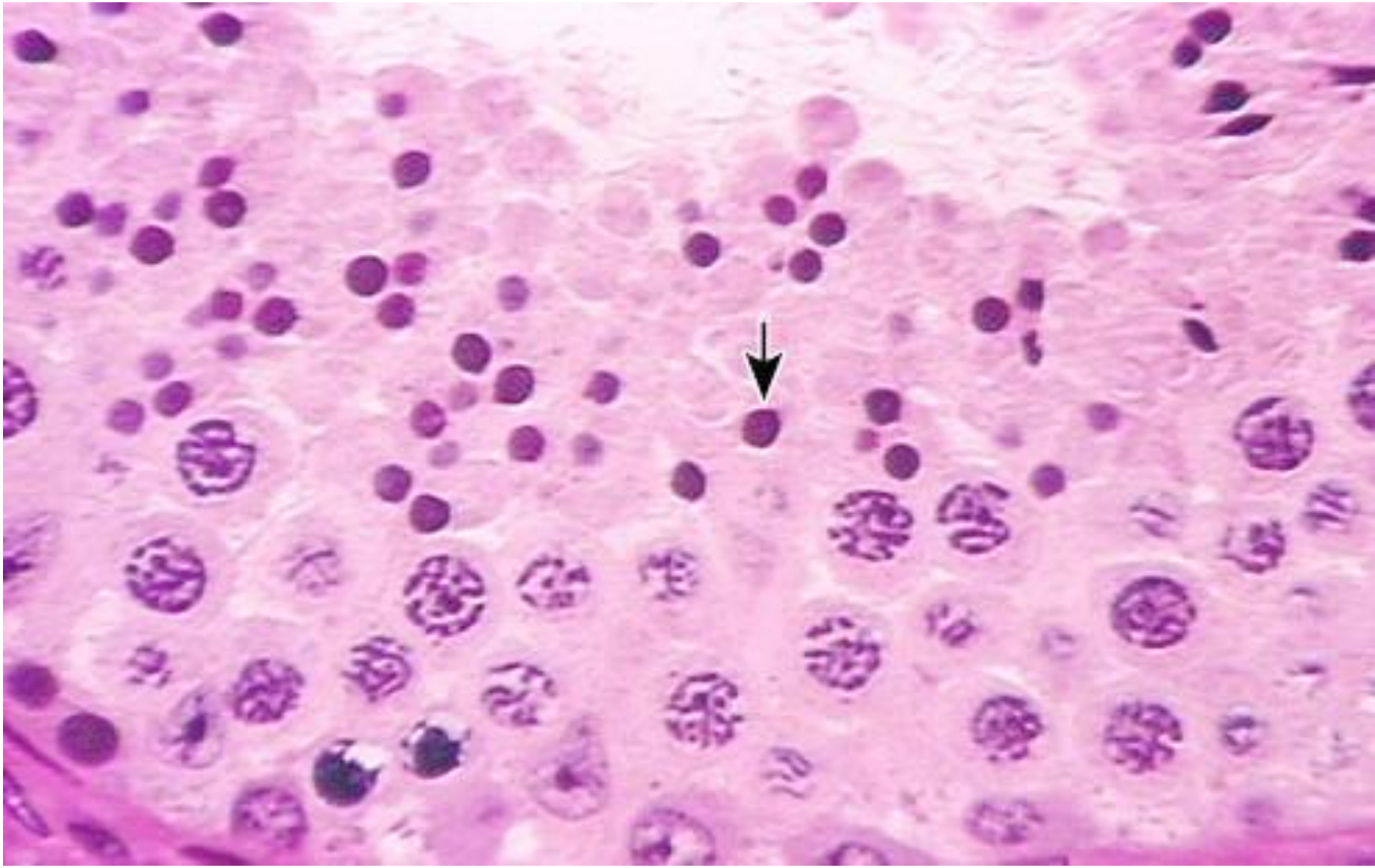
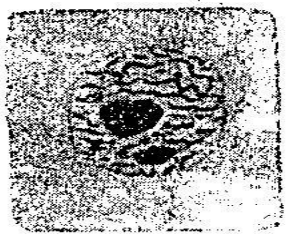


СХЕМА МИТОЗА

В КЛЕТКЕ РАСТЕНИЙ



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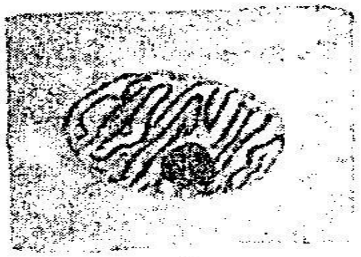
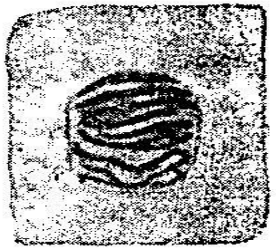
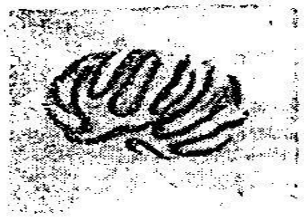


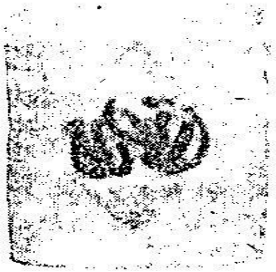
Б



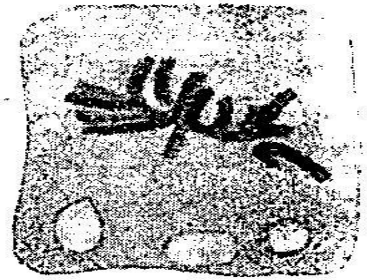
В



Г



Д

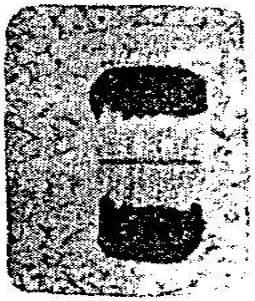


Е

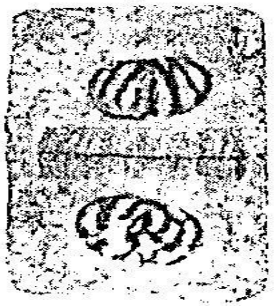
Ж

З

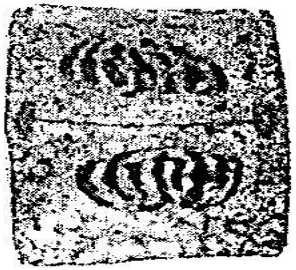
И



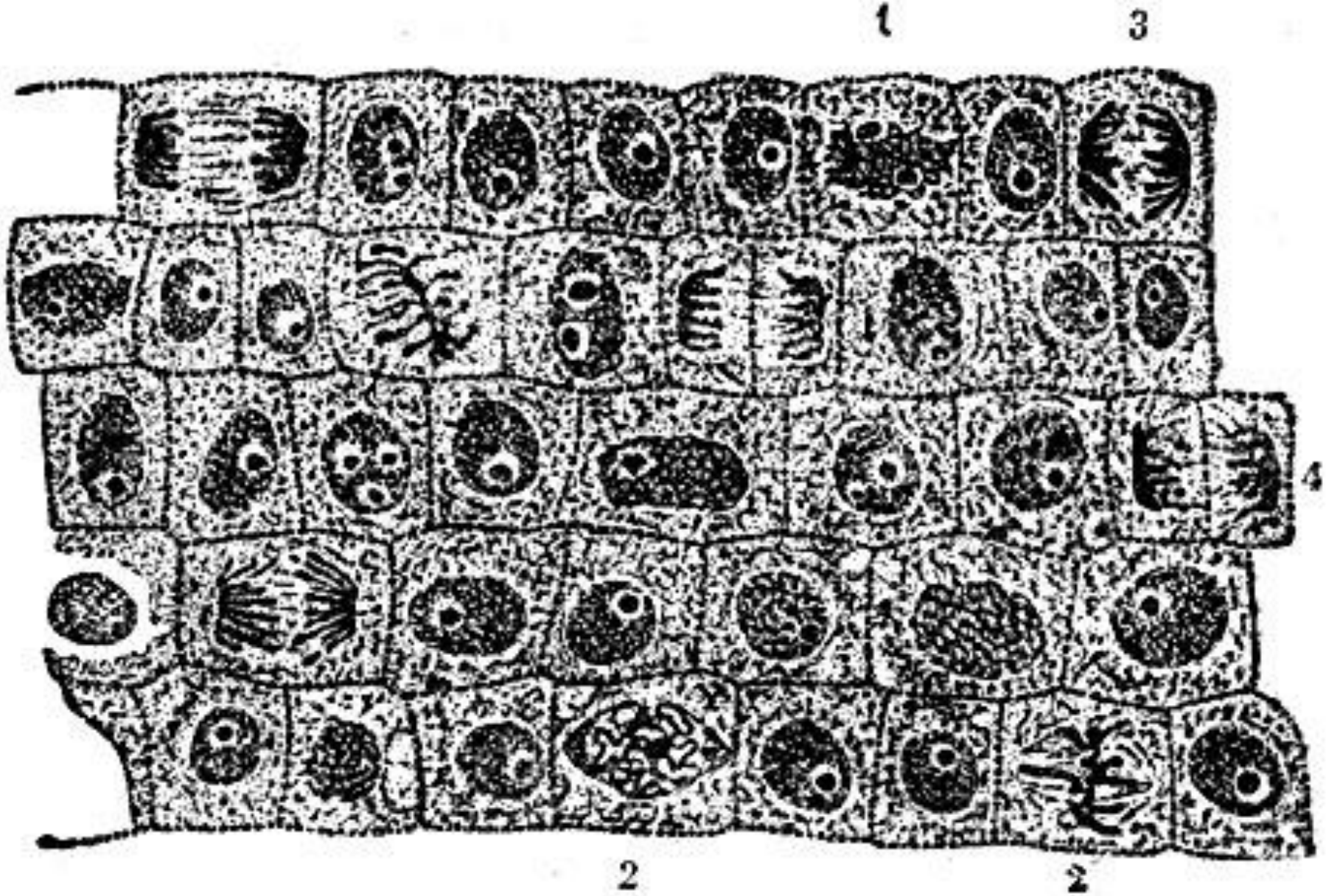
К

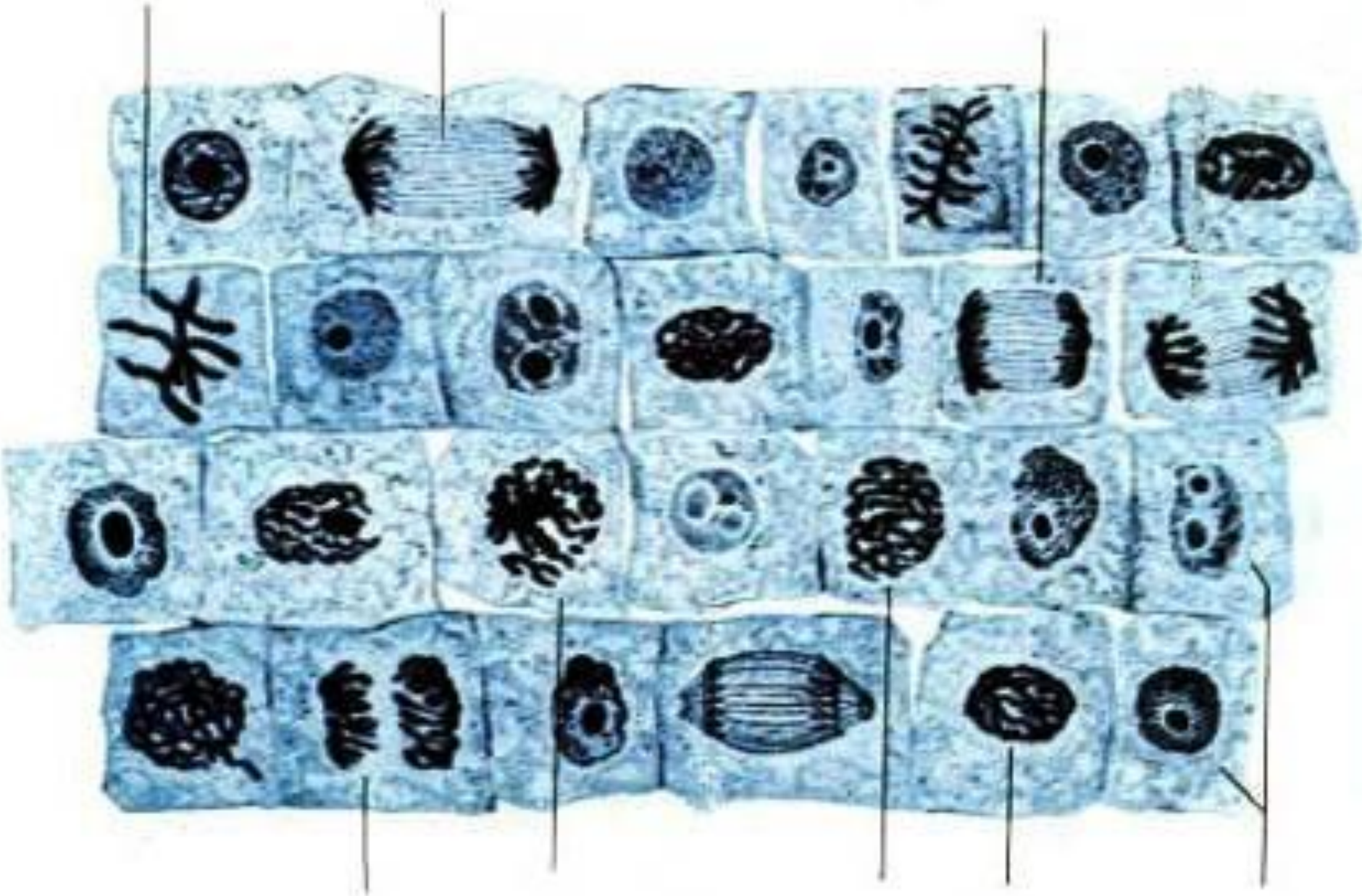


Л



М


1
3
4
2
2

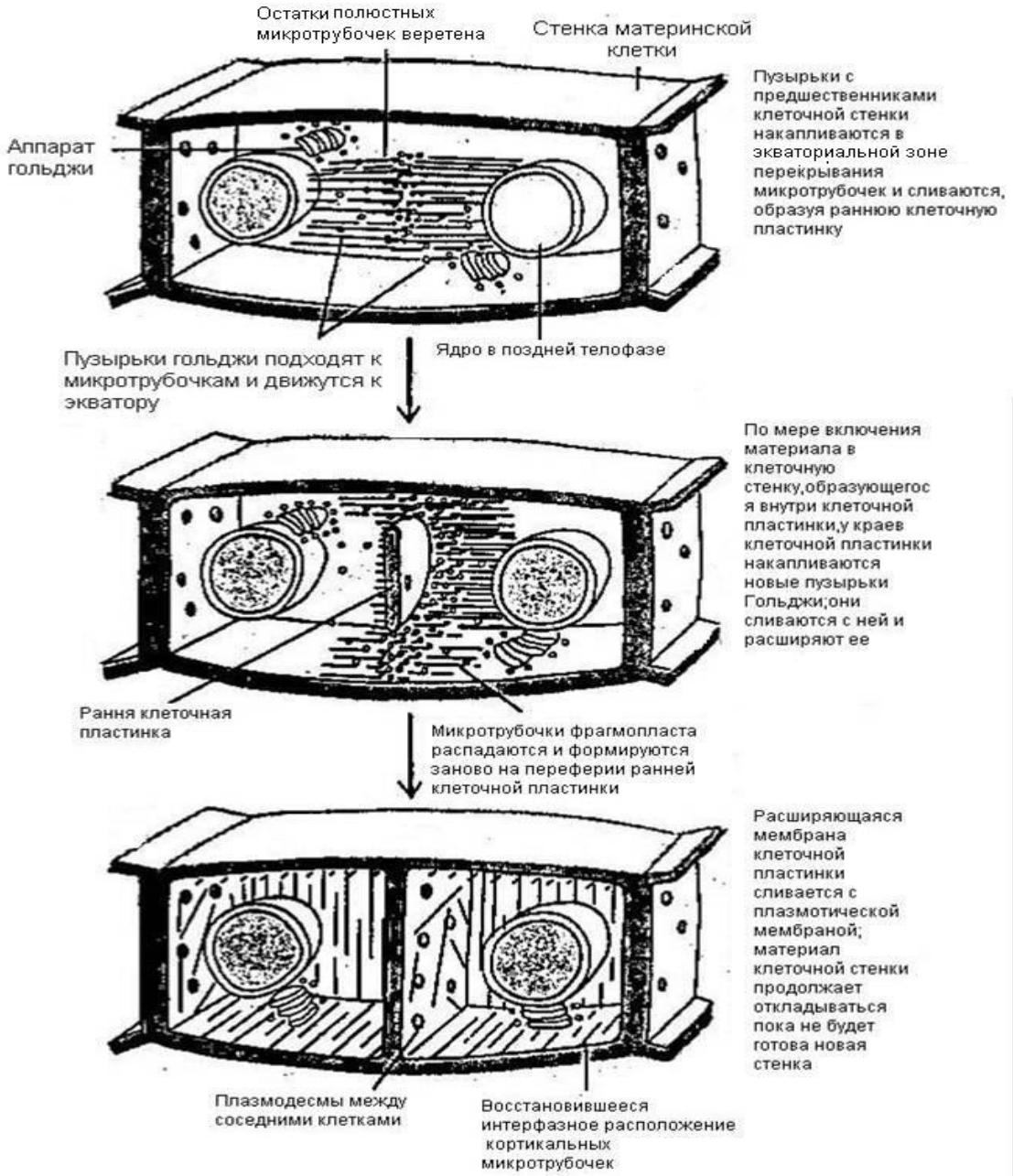


ТЕЛОФАЗА МИТОЗА

В КЛЕТКЕ РАСТЕНИЙ

Молекулярная организация клетки

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



ЗНАЧЕНИЕ

МИТОЗА

1
2
3
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5
6
7
8
9
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11
12
13
14
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16
17
18
X
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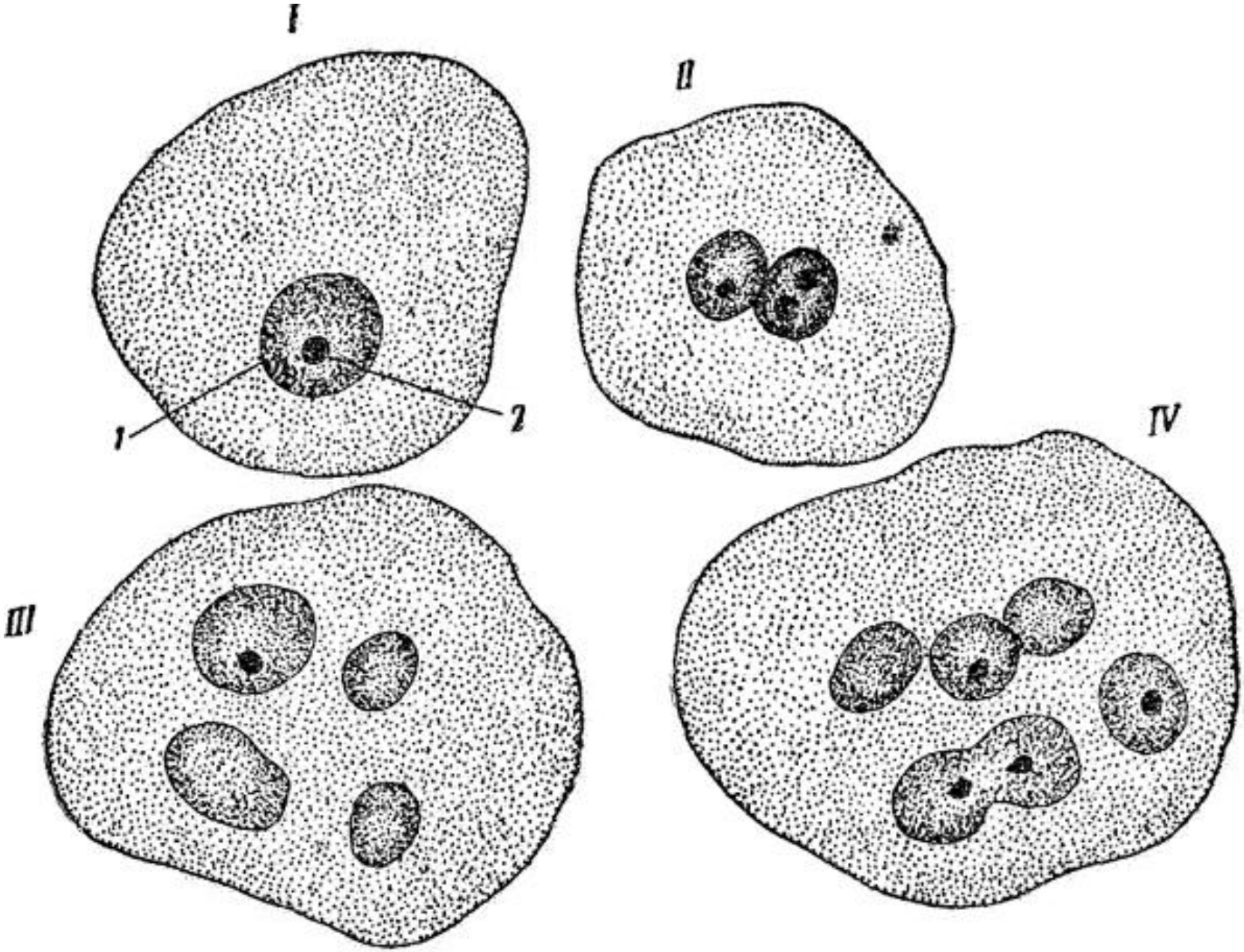
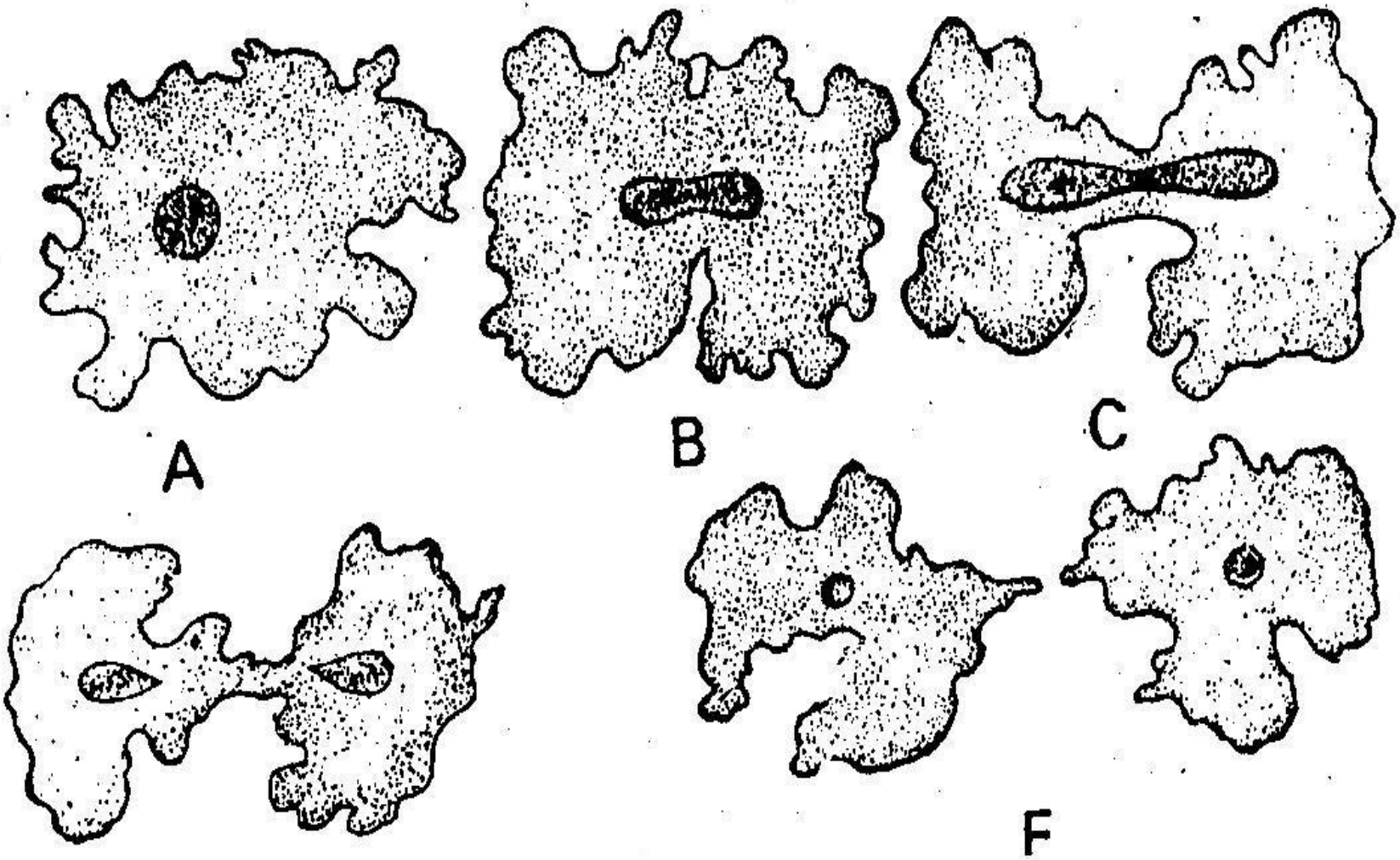
21
22

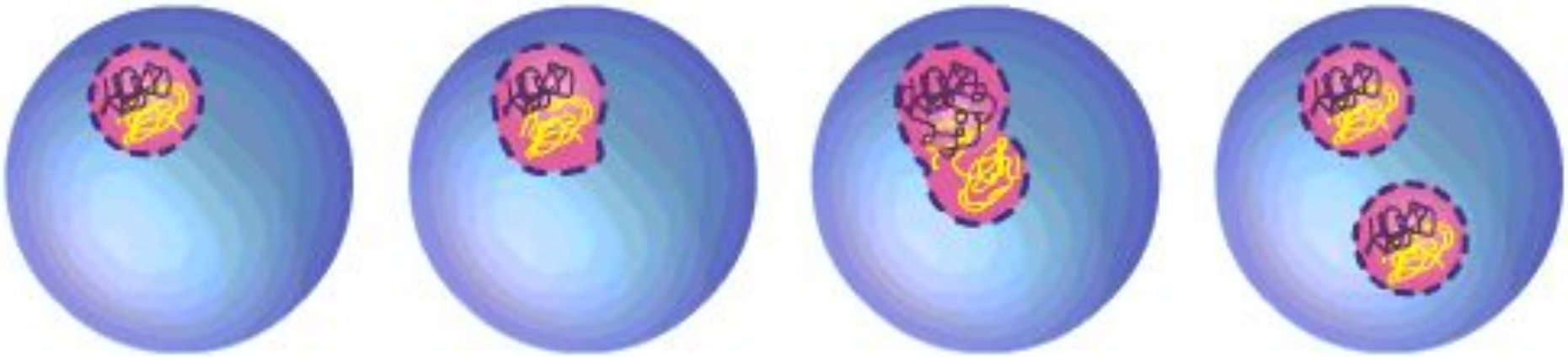
ШИЗОГОНИЯ

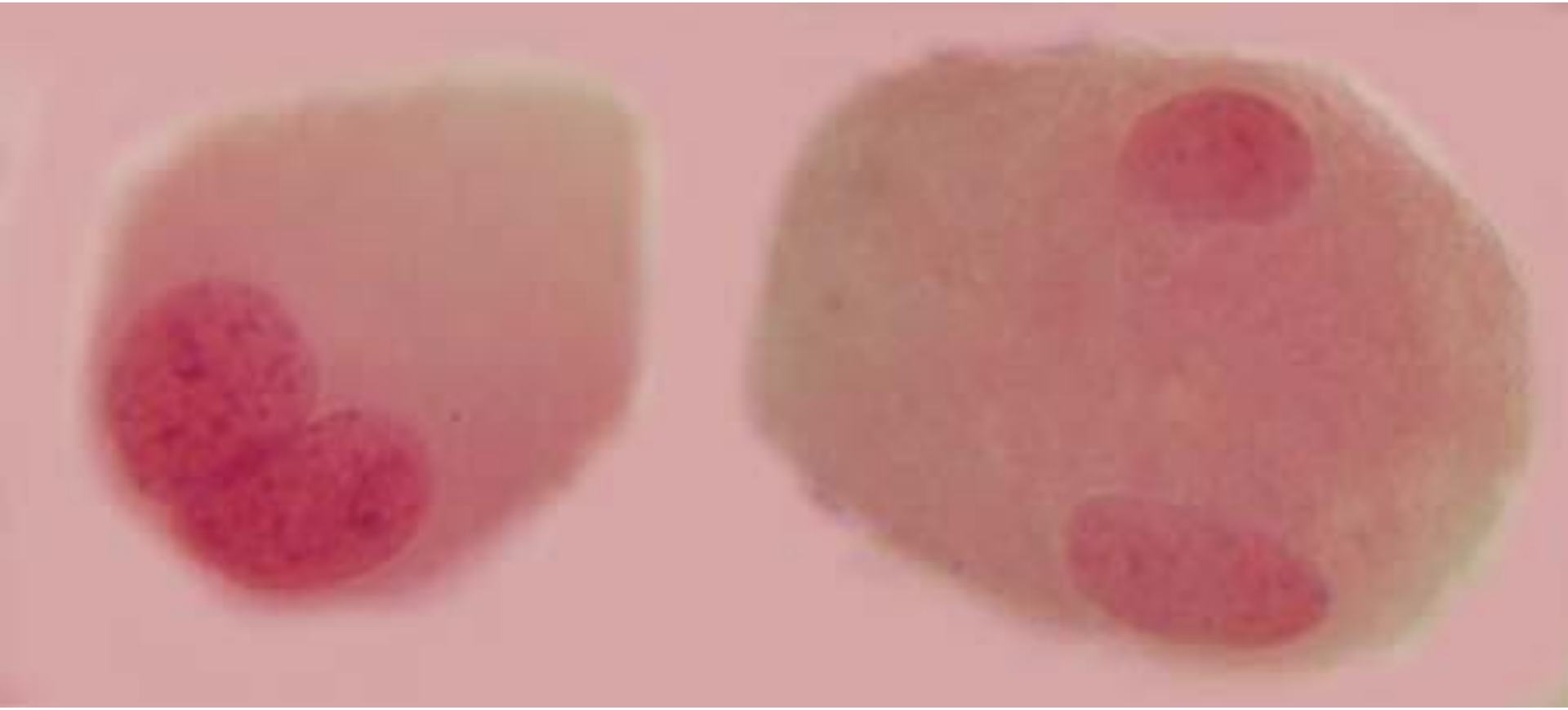

I
II
III
IV
1
2

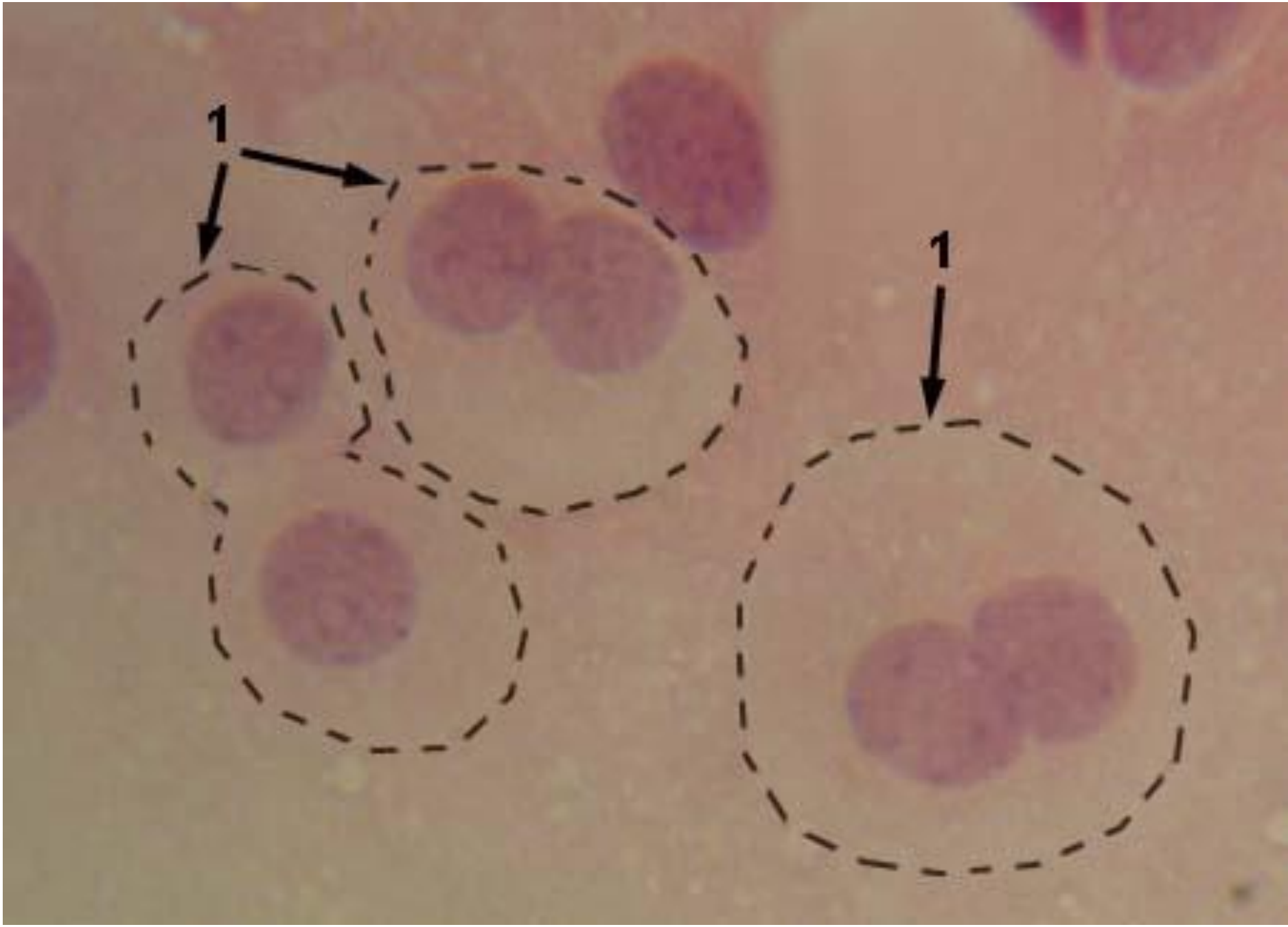
АМИТОЗ

Амитоз





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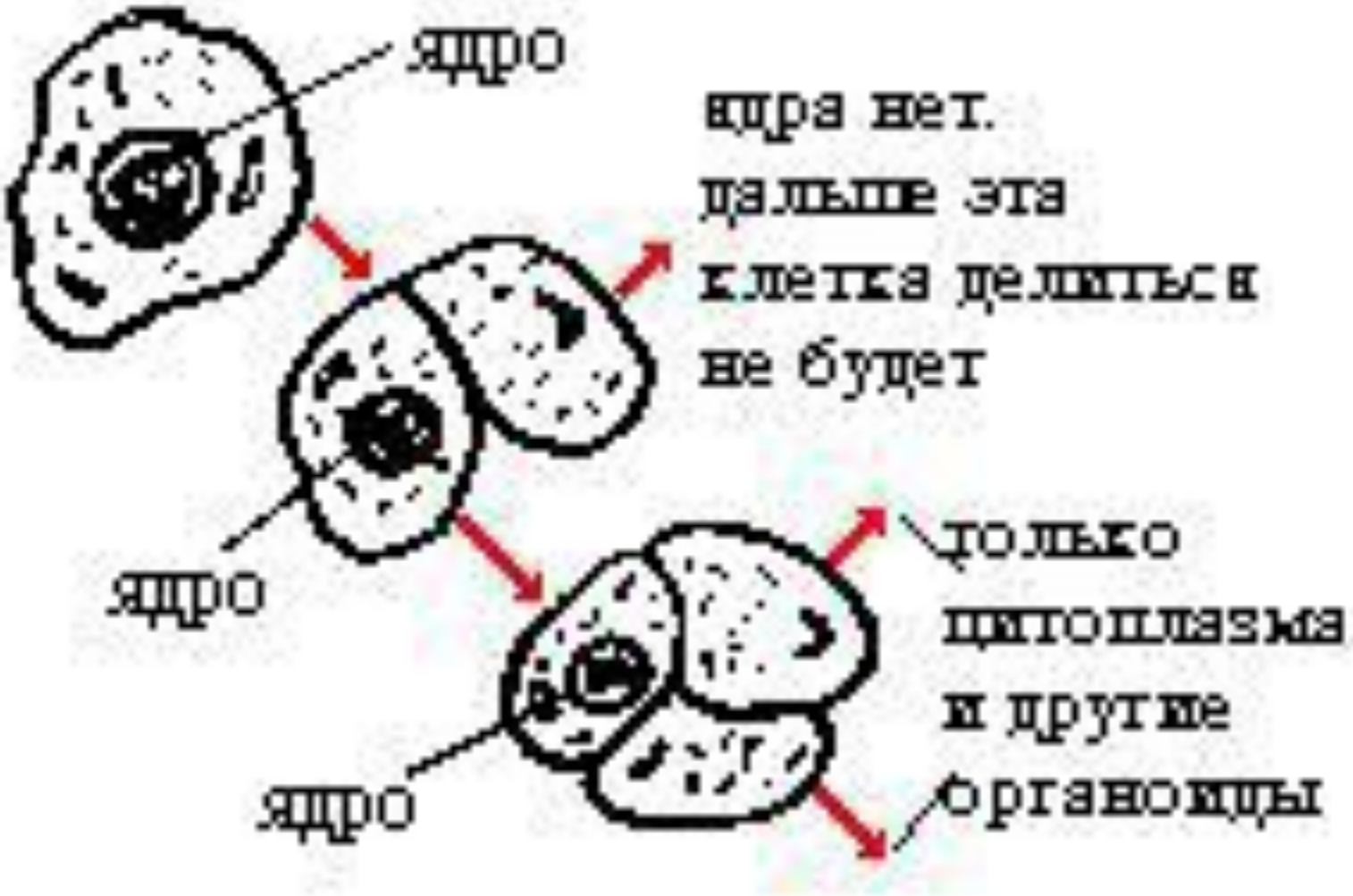
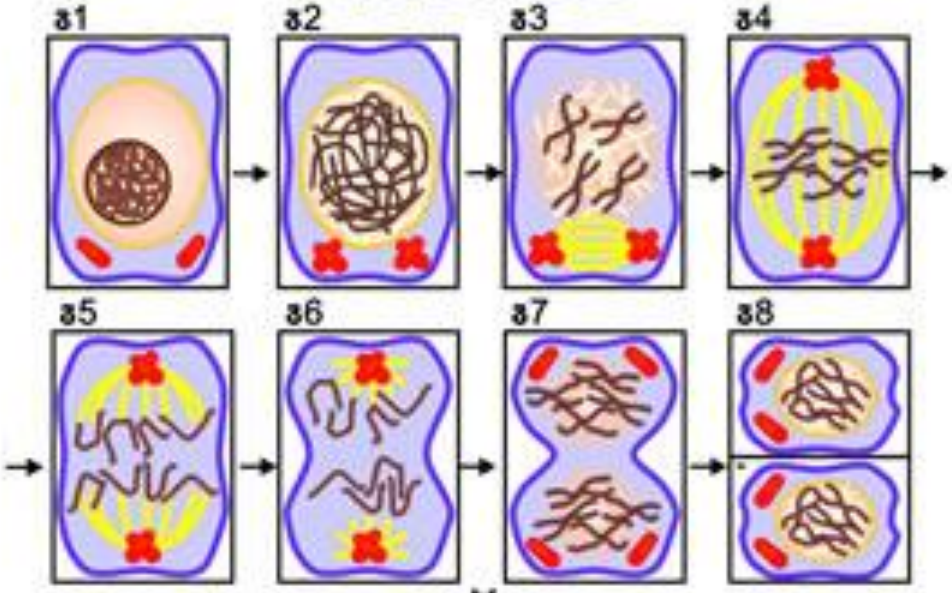

ядро
ядра нет.
дальше эта
клетка делиться
не будет
ядро
только
цитоплазма
и другие
органоиды
ядро

МЕЙОЗ

ПОНЯТИЕ МЕЙОЗА. ЕГО СУЩНОСТЬ

МИТОЗ



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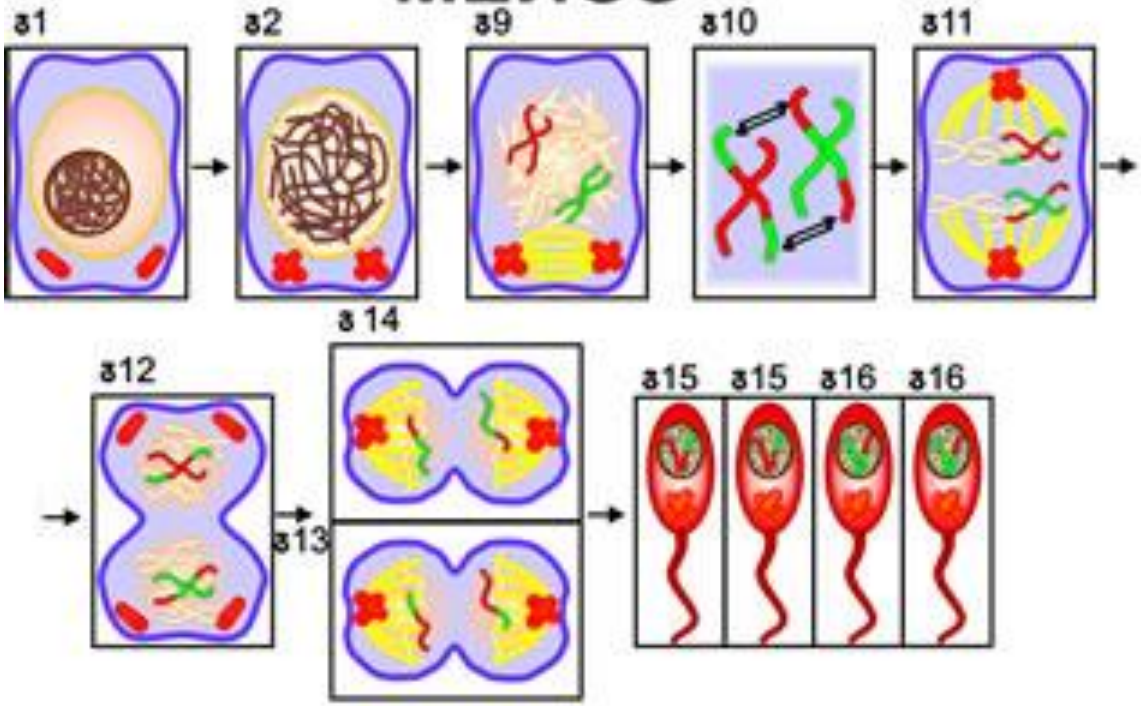

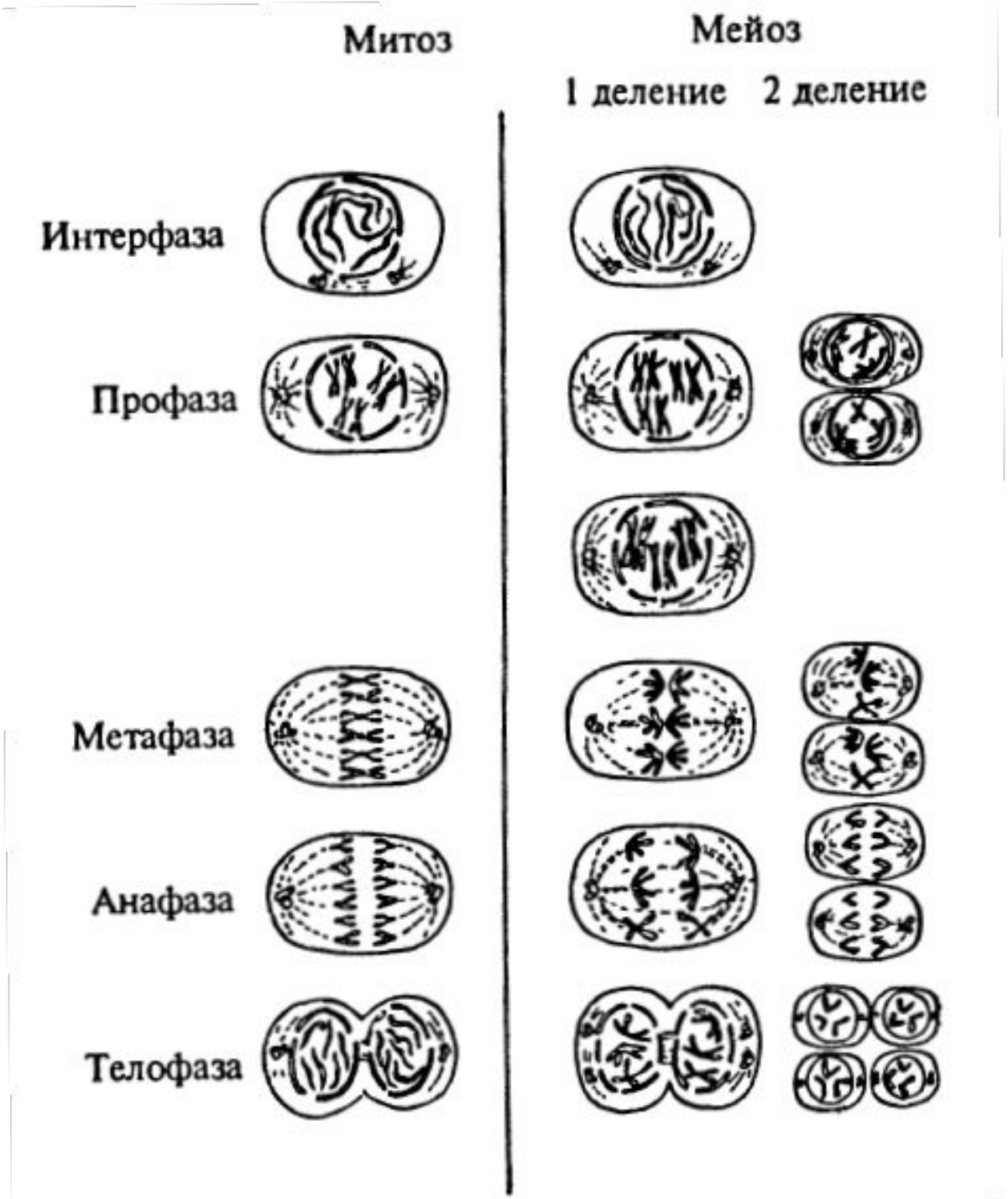
Митоз
Мейоз
1 деление
2 деление
Интерфаза
Профаза
Метафаза
Анафаза
Телофаза