

15 минут о
жизни вирусов

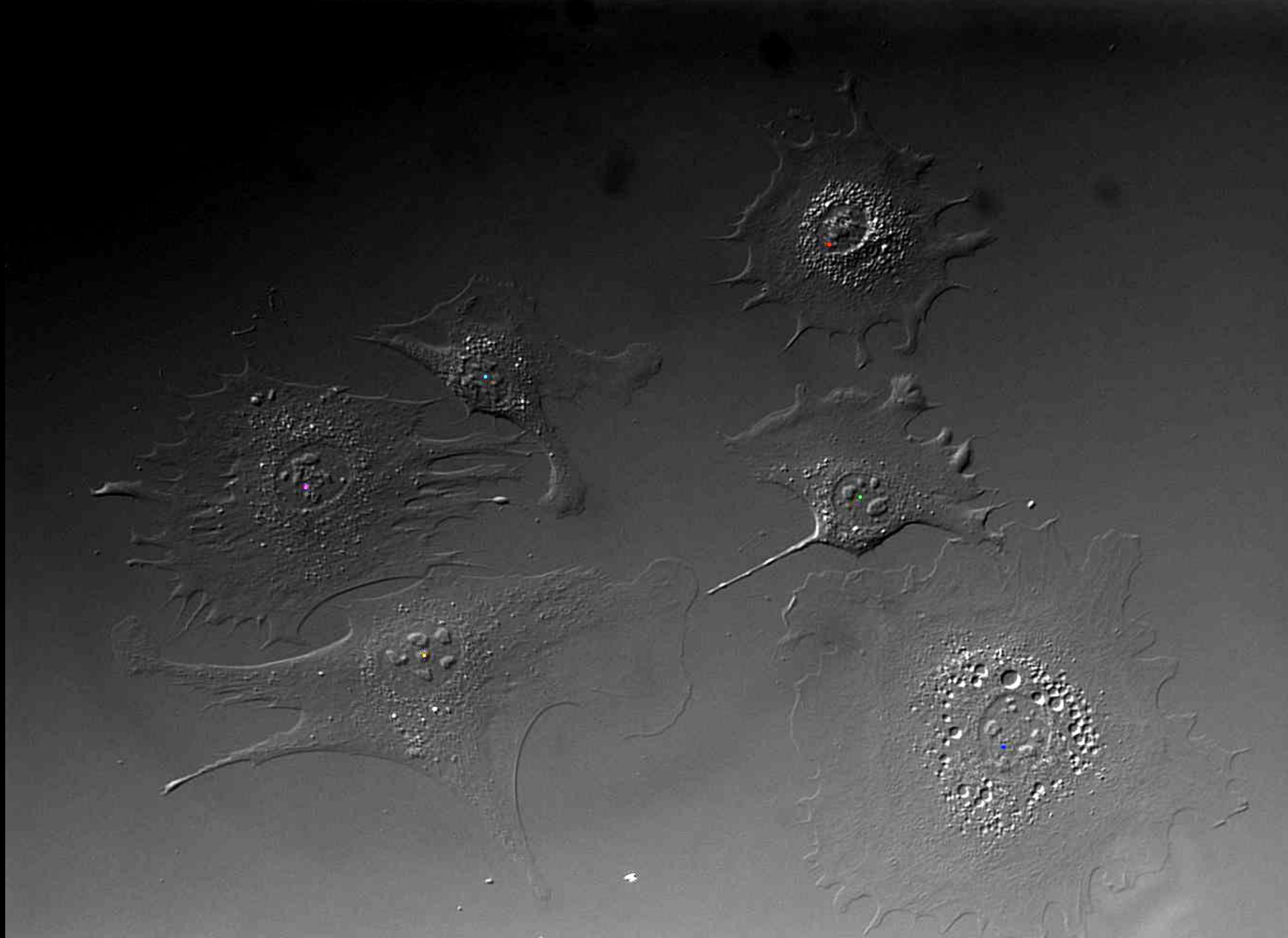
15x4

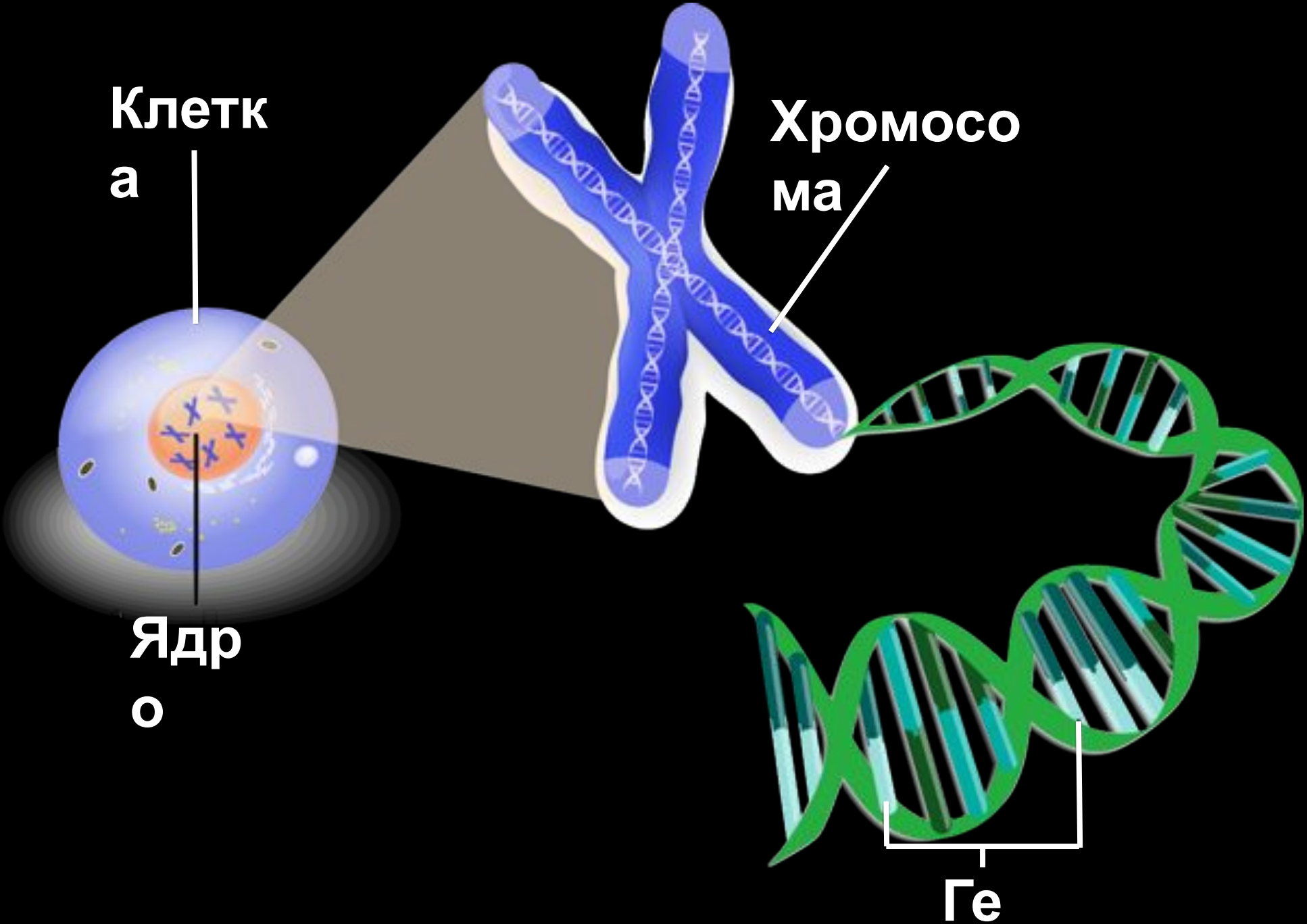
Юлия Евтеева











Клетка

а

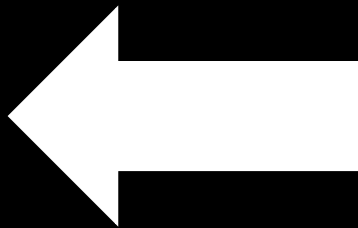
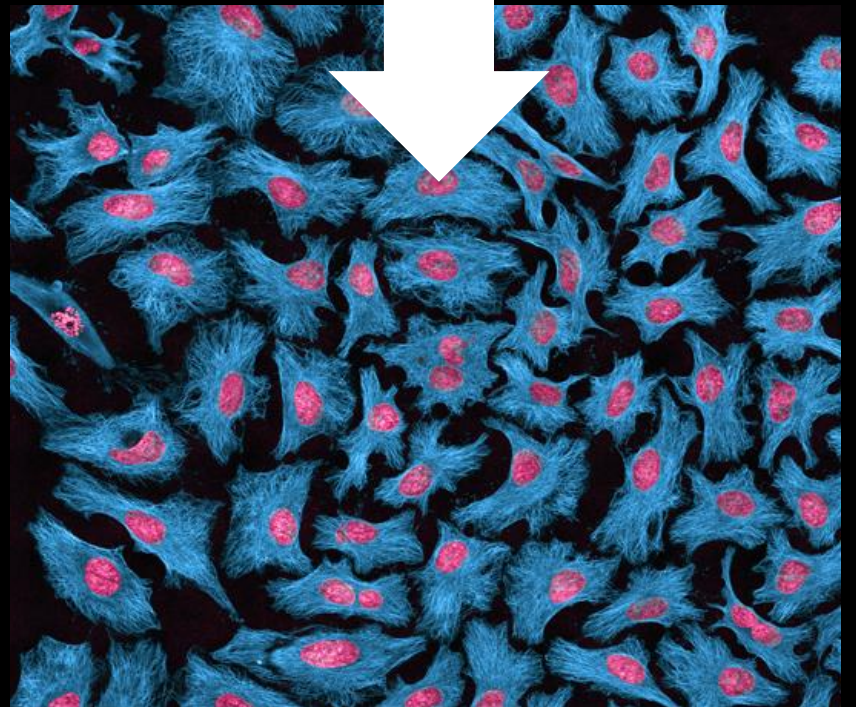
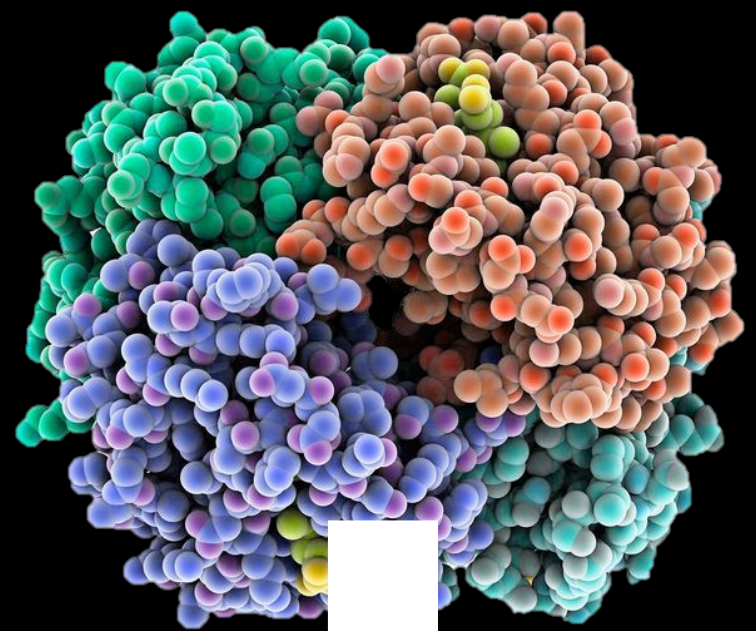
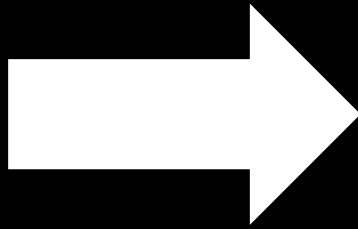
Ядро

о

Хромосома

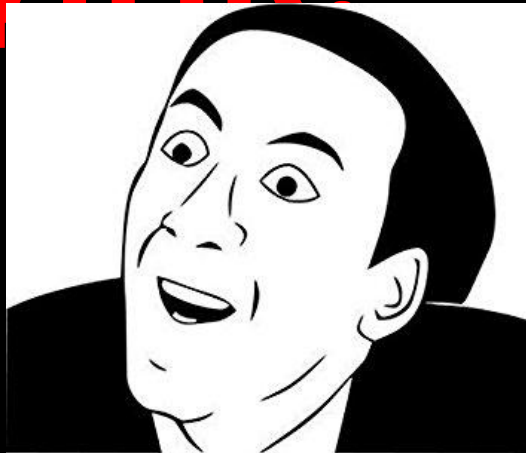
ма

Ген



Из чего состоят хромосомы и гены?

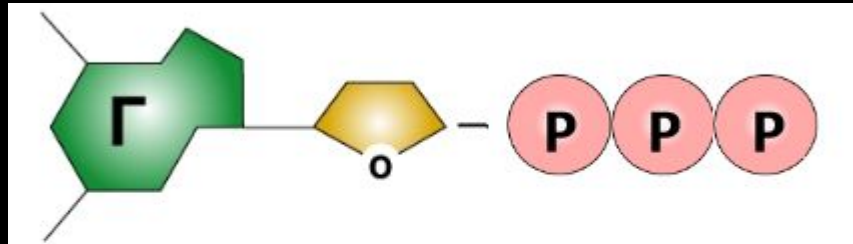
**Из
ДНК!**



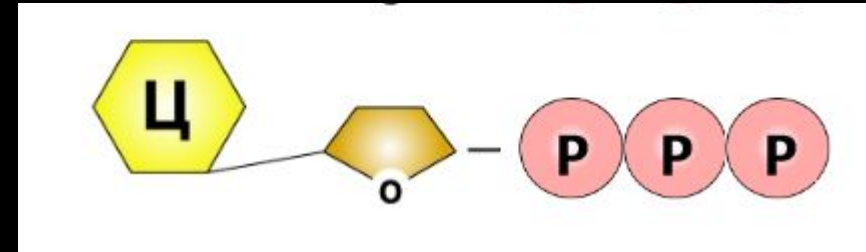


Нуклеотиды

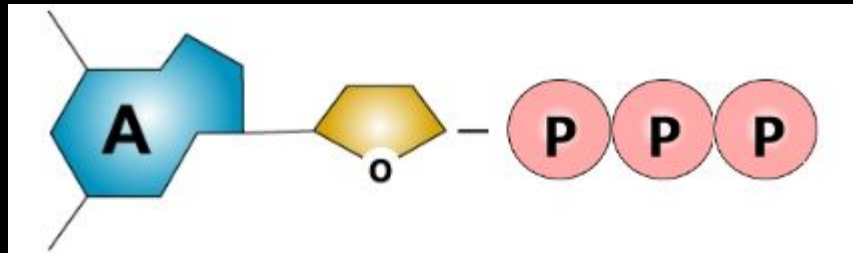
Гуанин



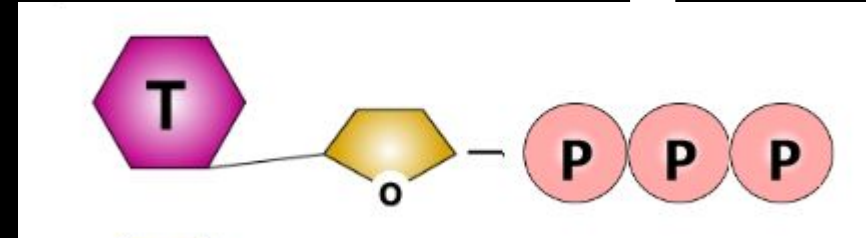
Цитозин



Аденин

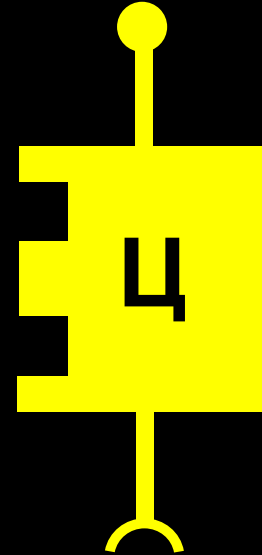
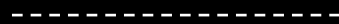


Тимин



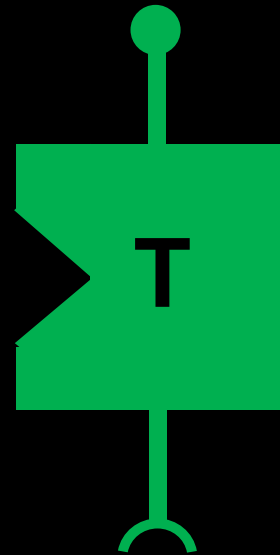
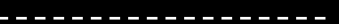
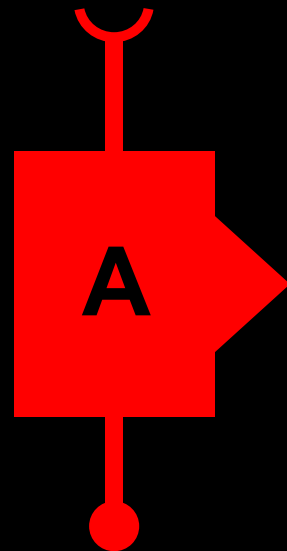
Комплементарно

Гуани
н

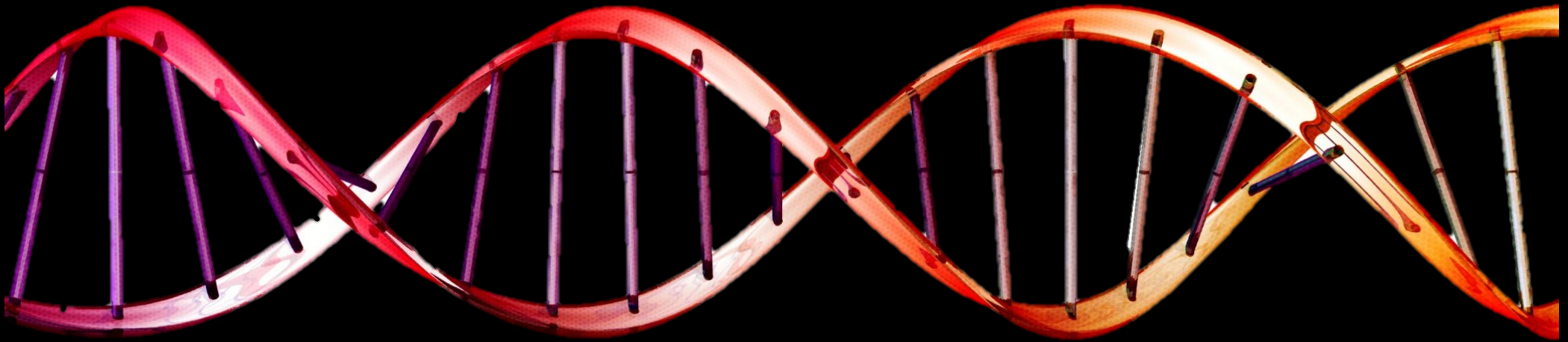
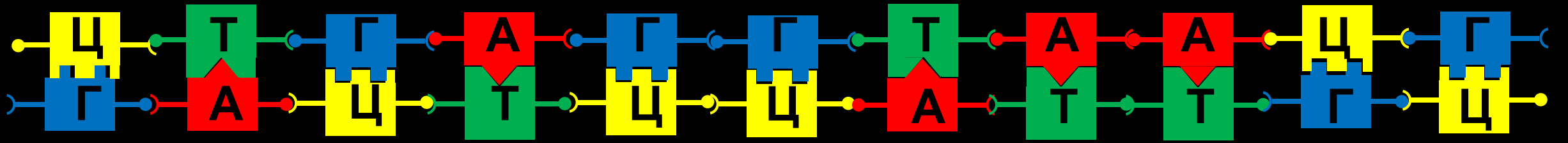


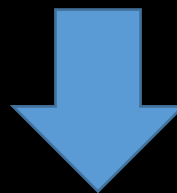
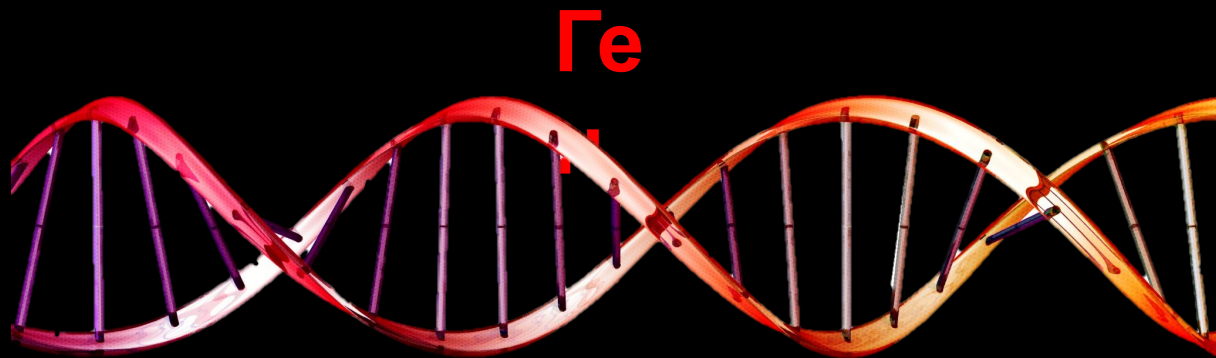
Цитози
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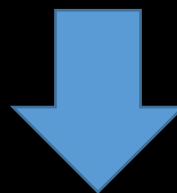


Тими
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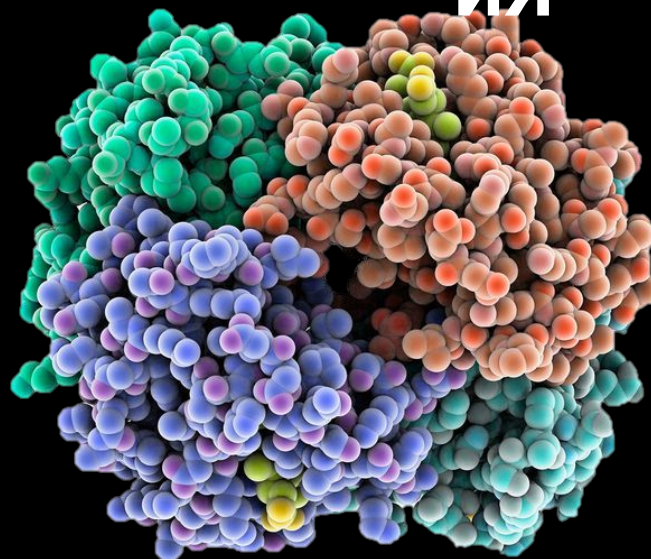




**Транскрипц
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**Трансляц
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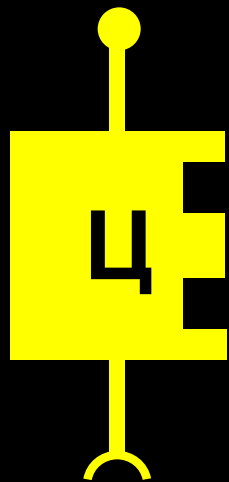
РН
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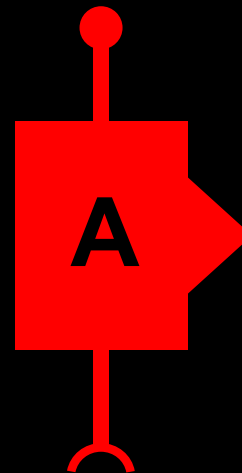
ДН
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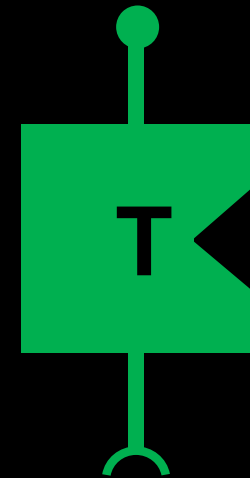
Гуани



Цитозини

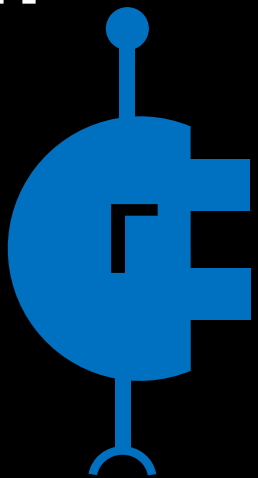


Аденини



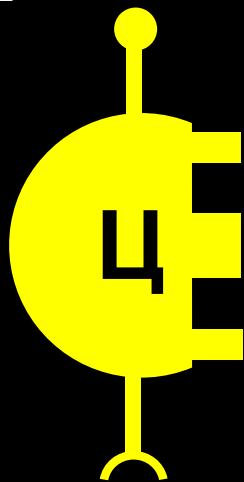
Тими

Н



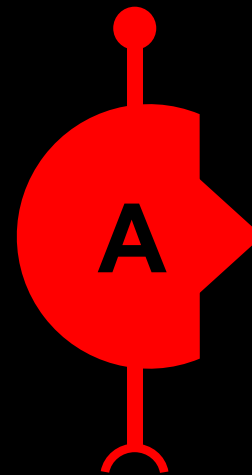
Гуани

Н



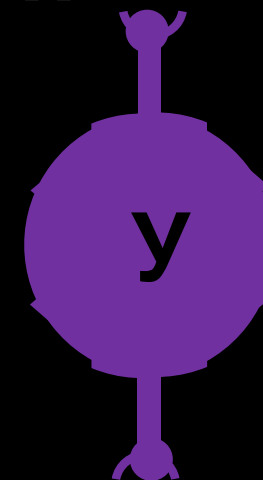
Цитозини

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Аденини

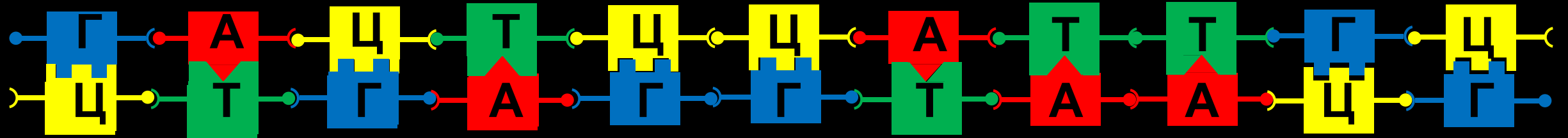
Н



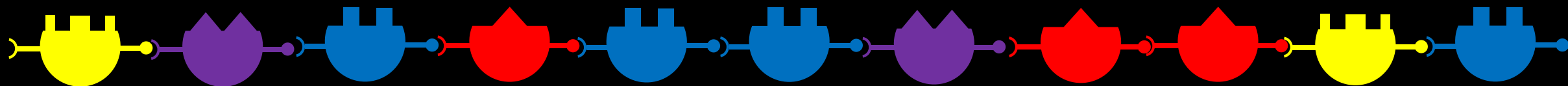
Ураци

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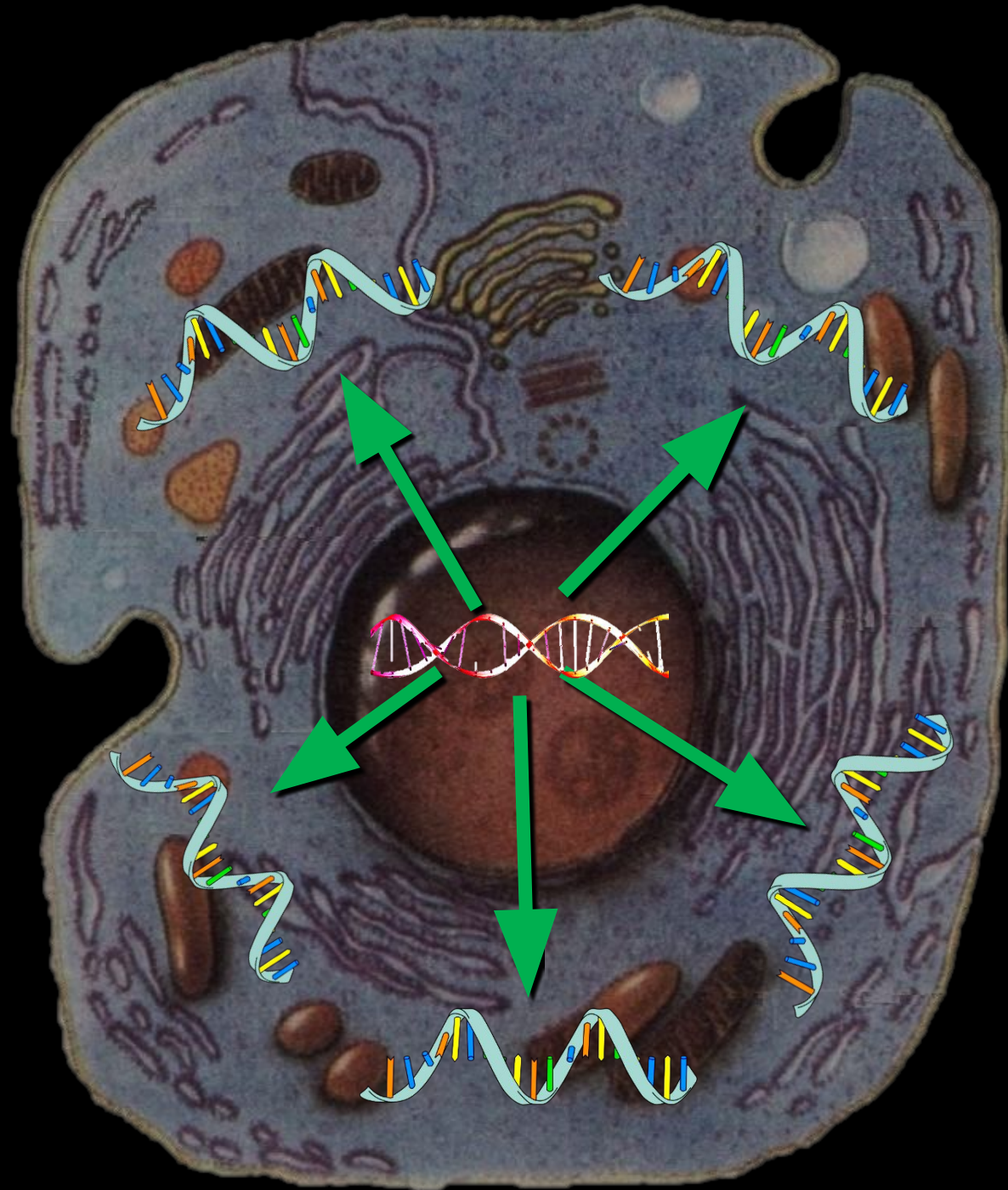
РНК-
полимераза



ДН

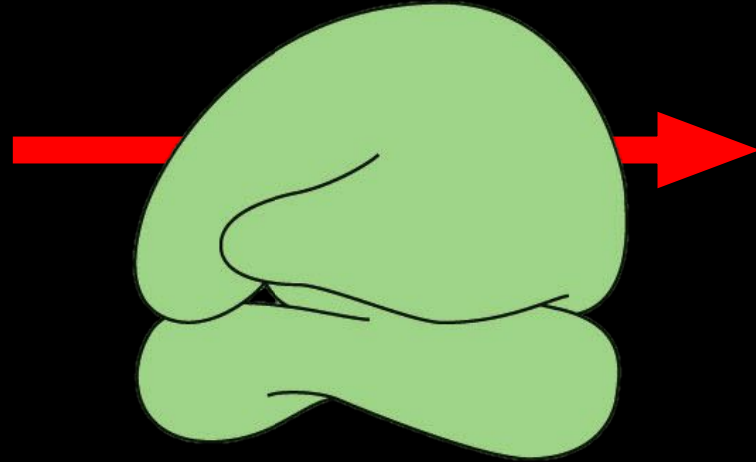
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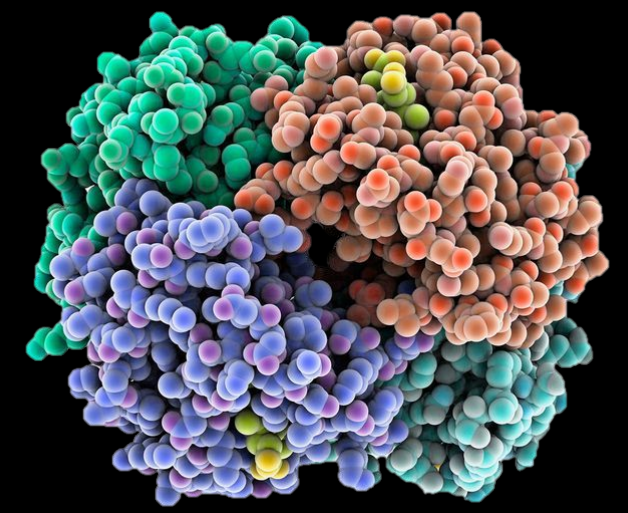
Трансляция

РНК



Рибосома

Белок

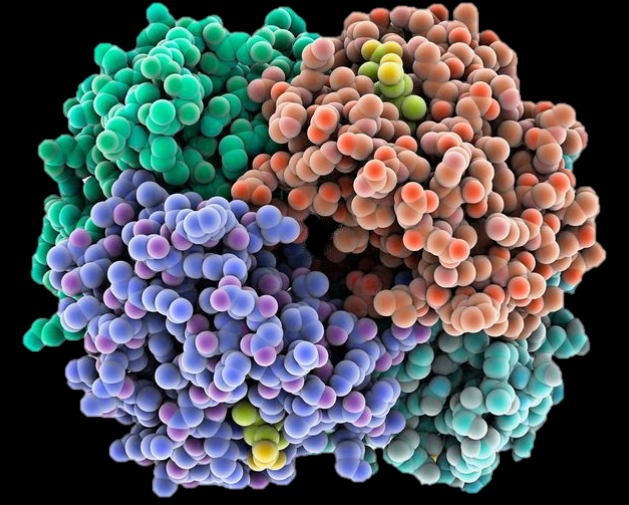




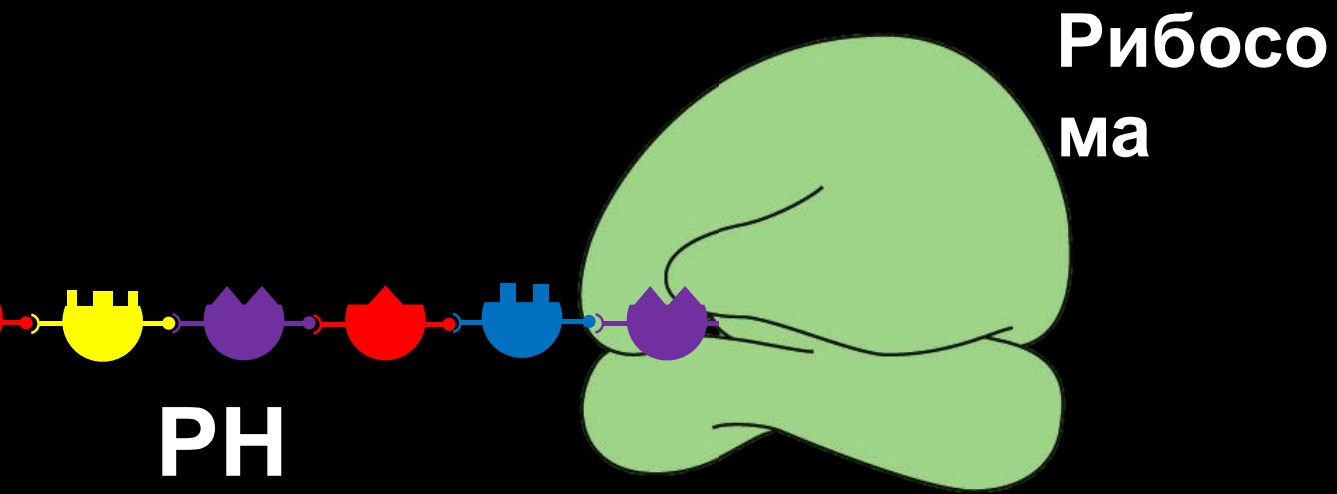
PH
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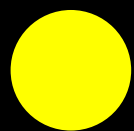
Рибосома



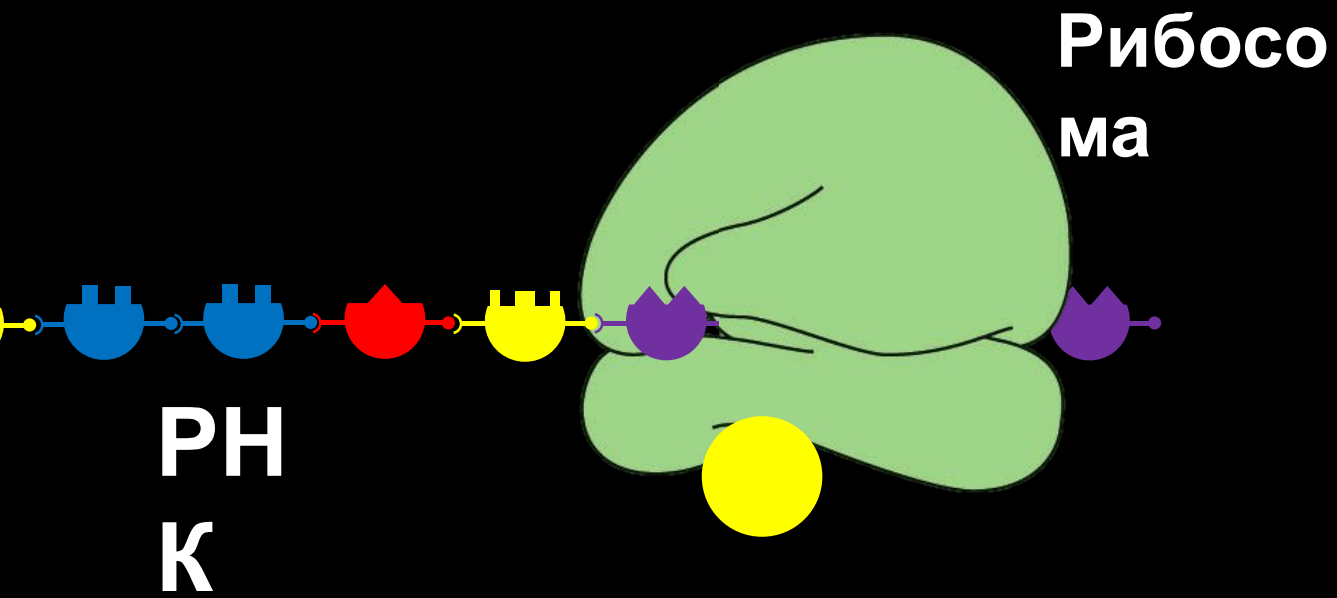
Бело
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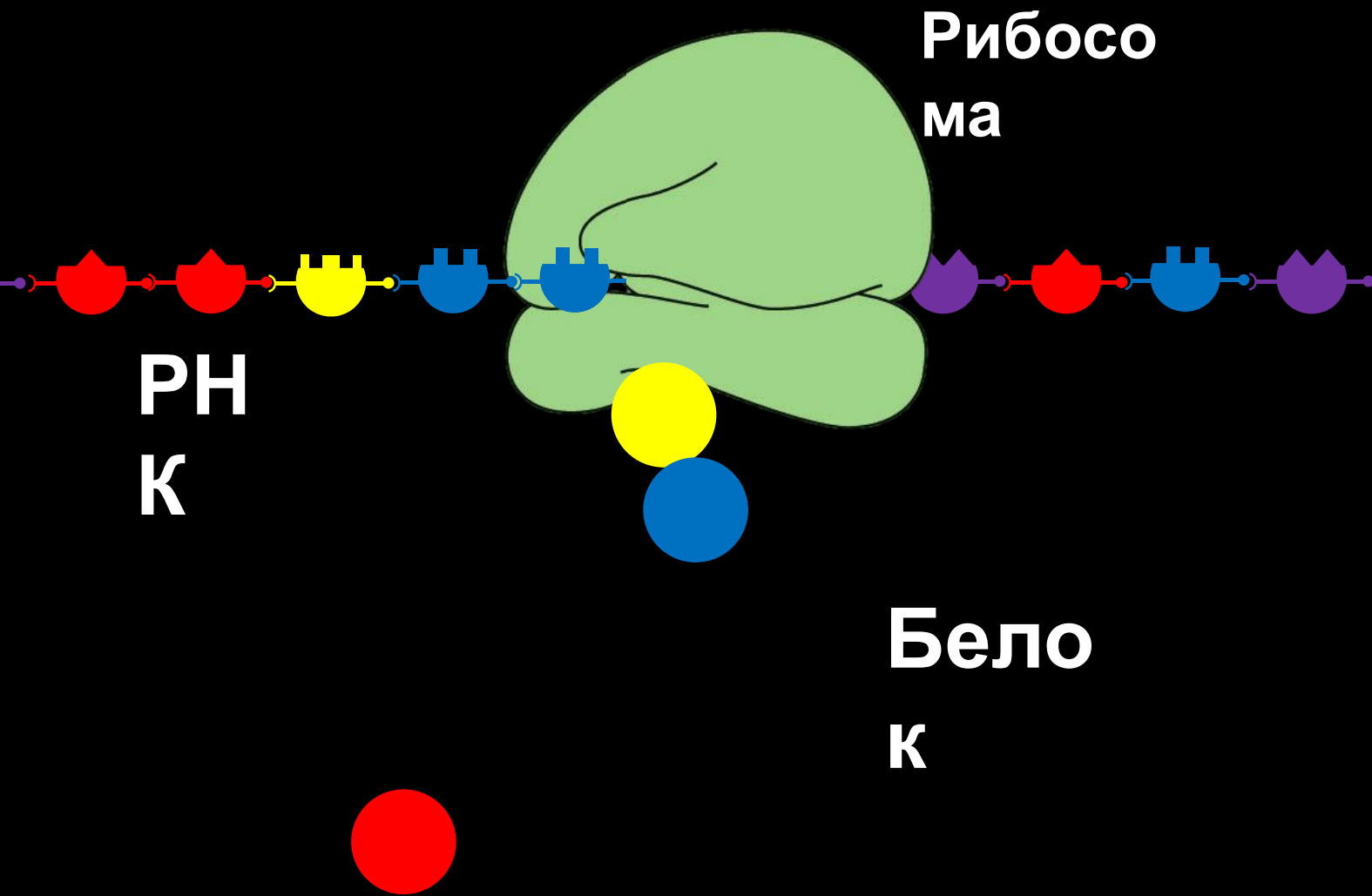


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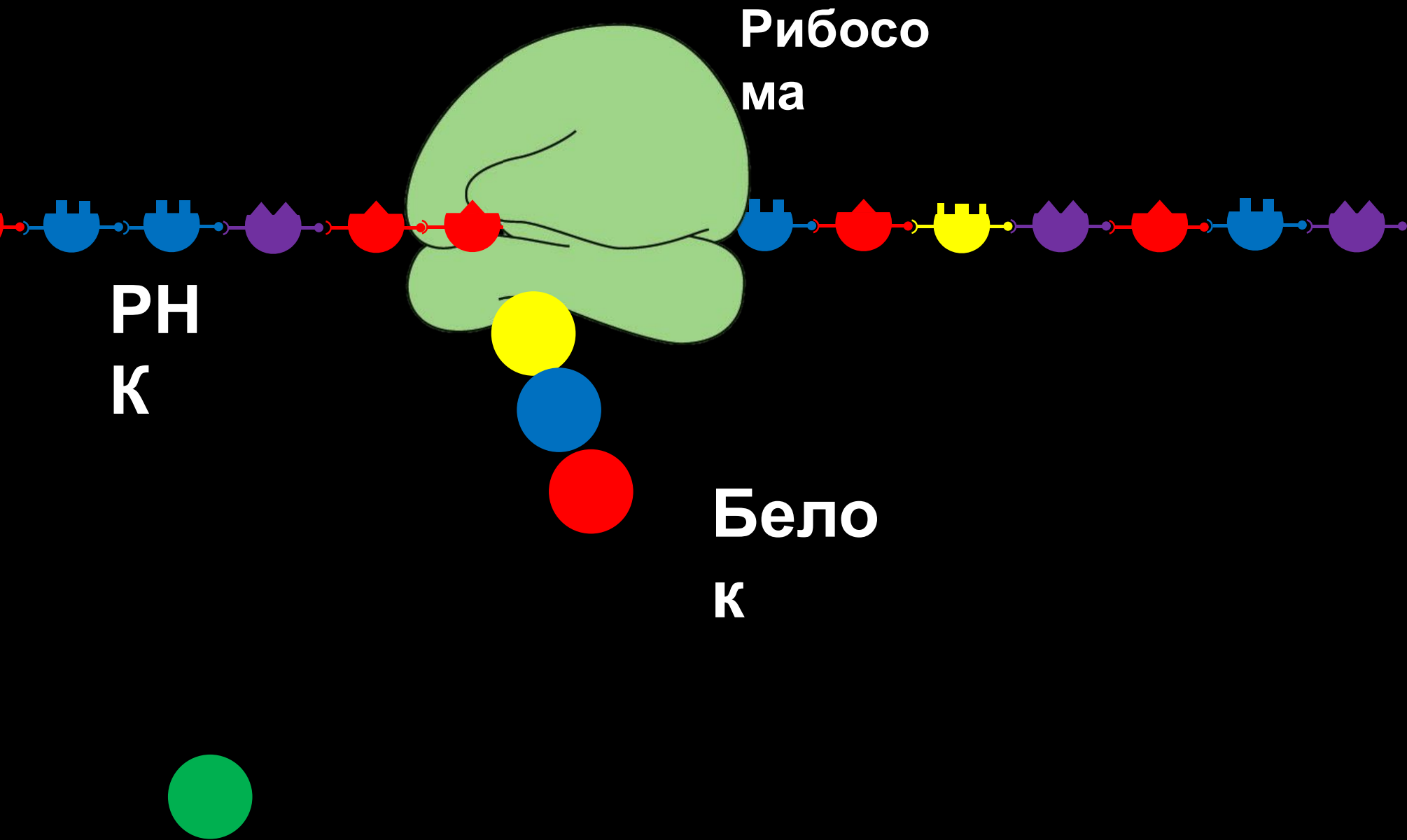




Рибосо
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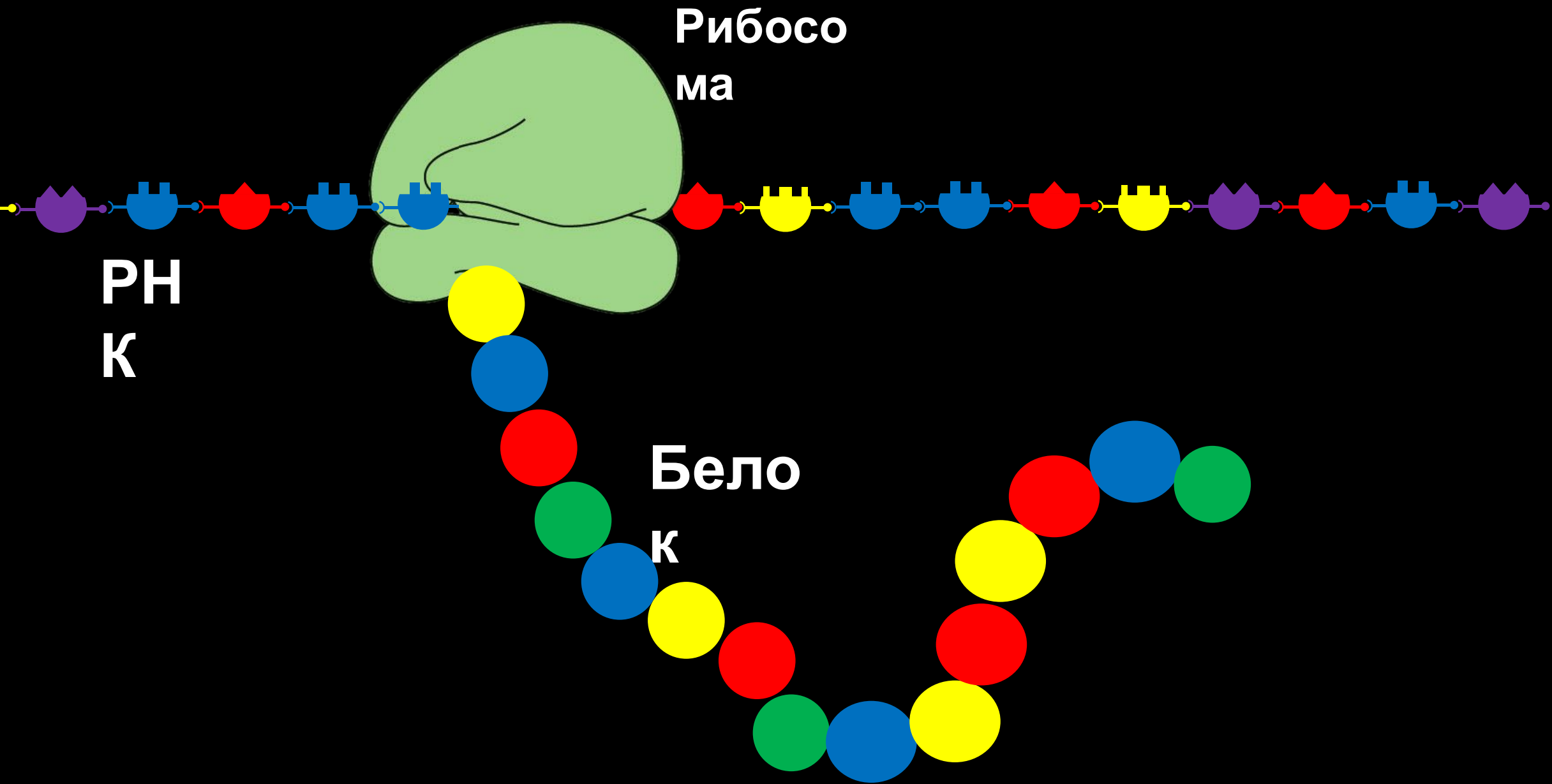


Рибосо
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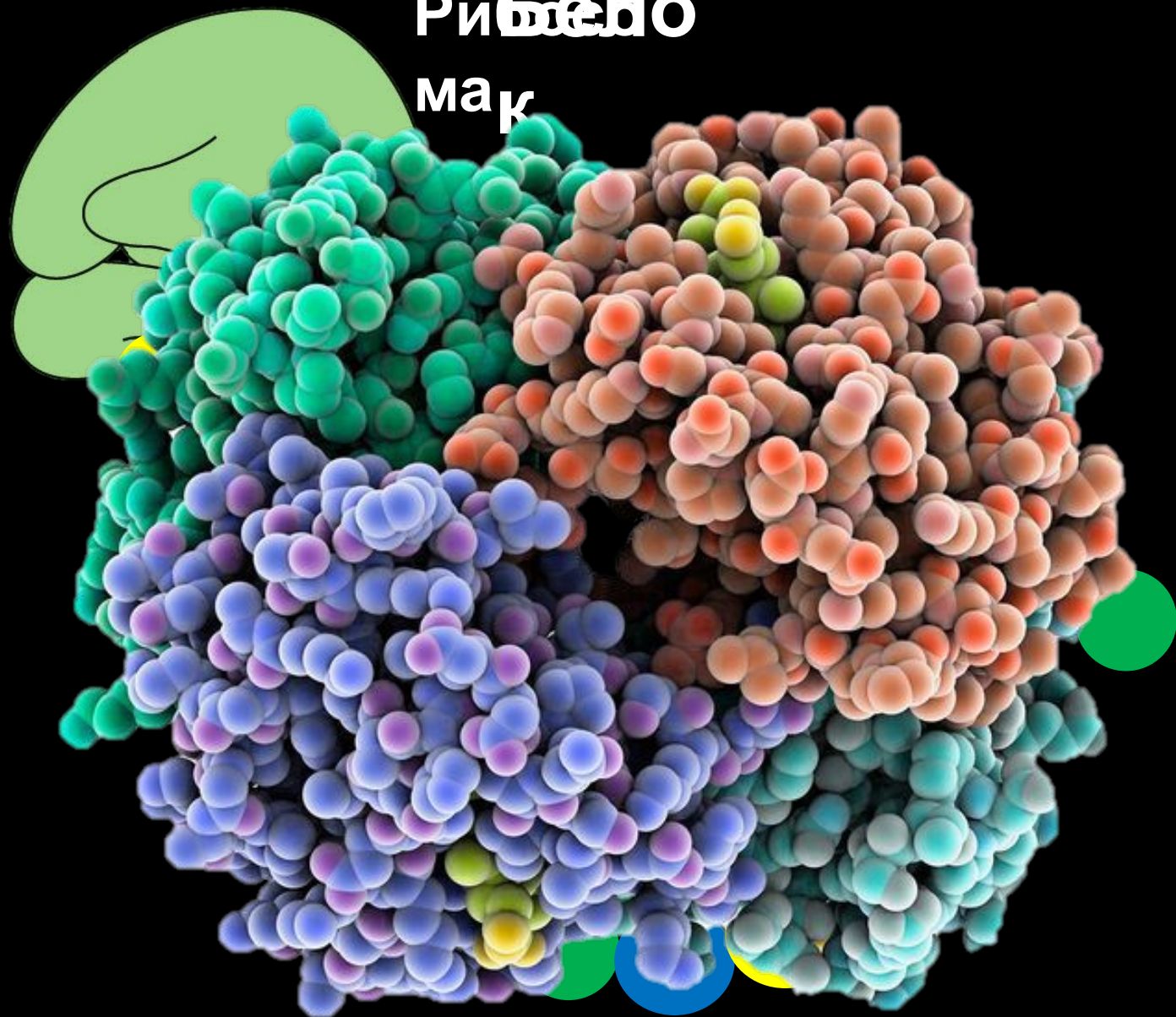
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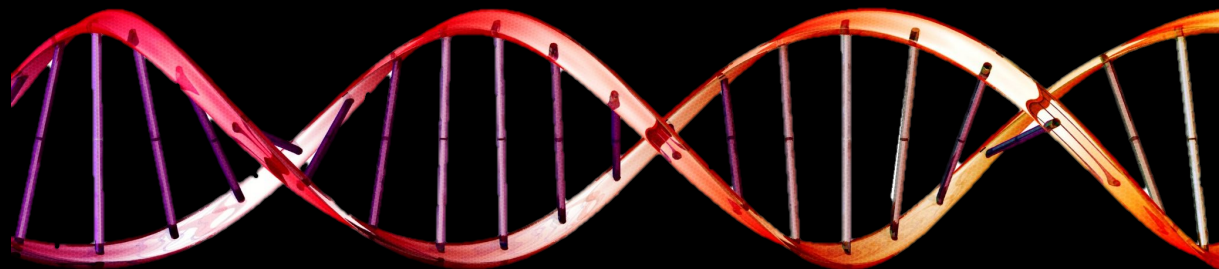
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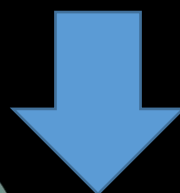


Рибосома

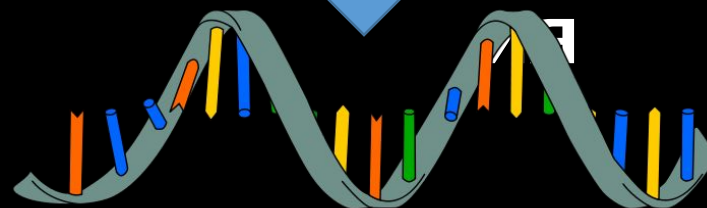




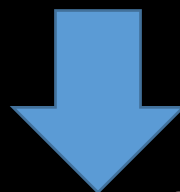
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Транскрипц



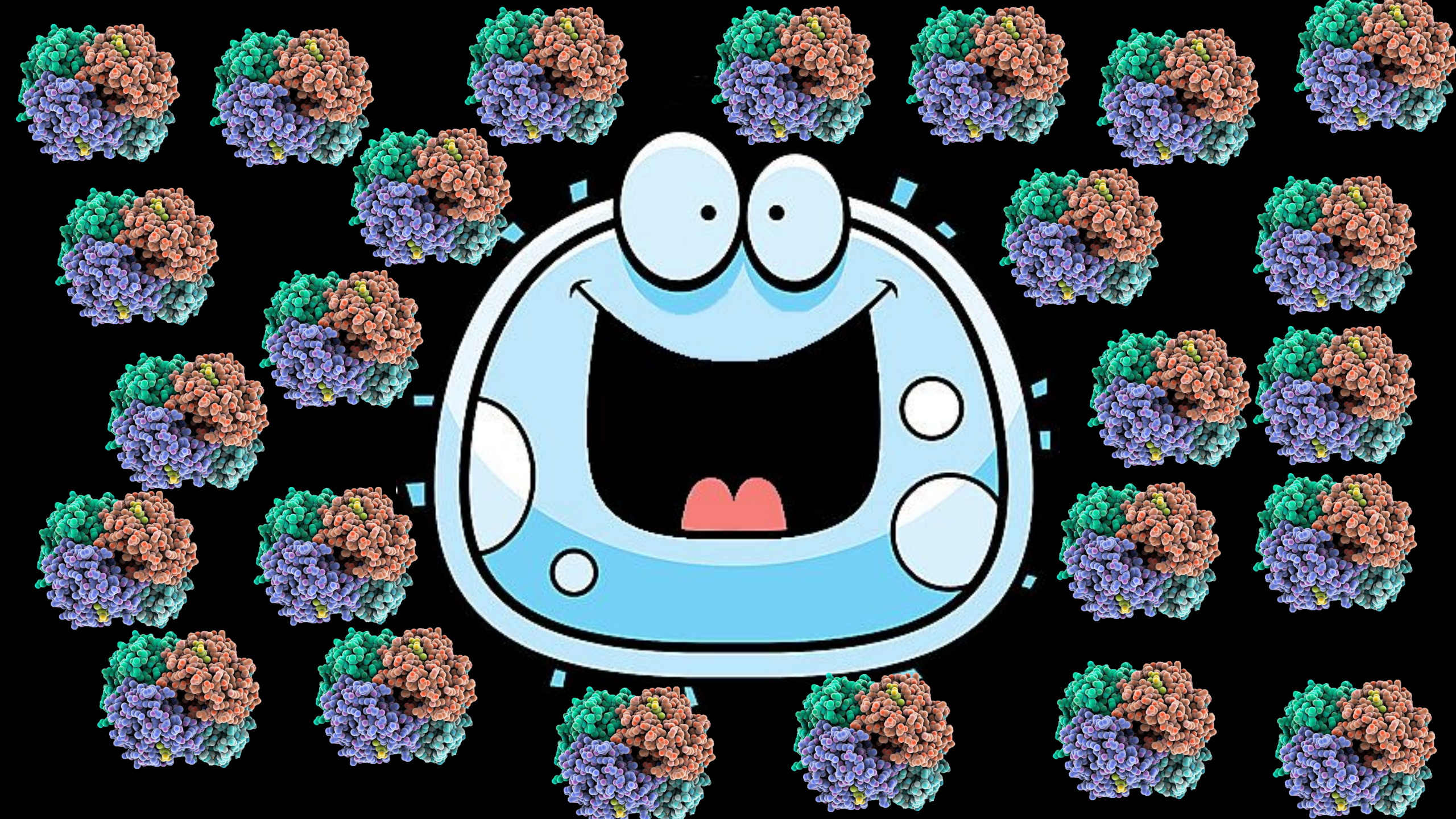
**РН
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Белок

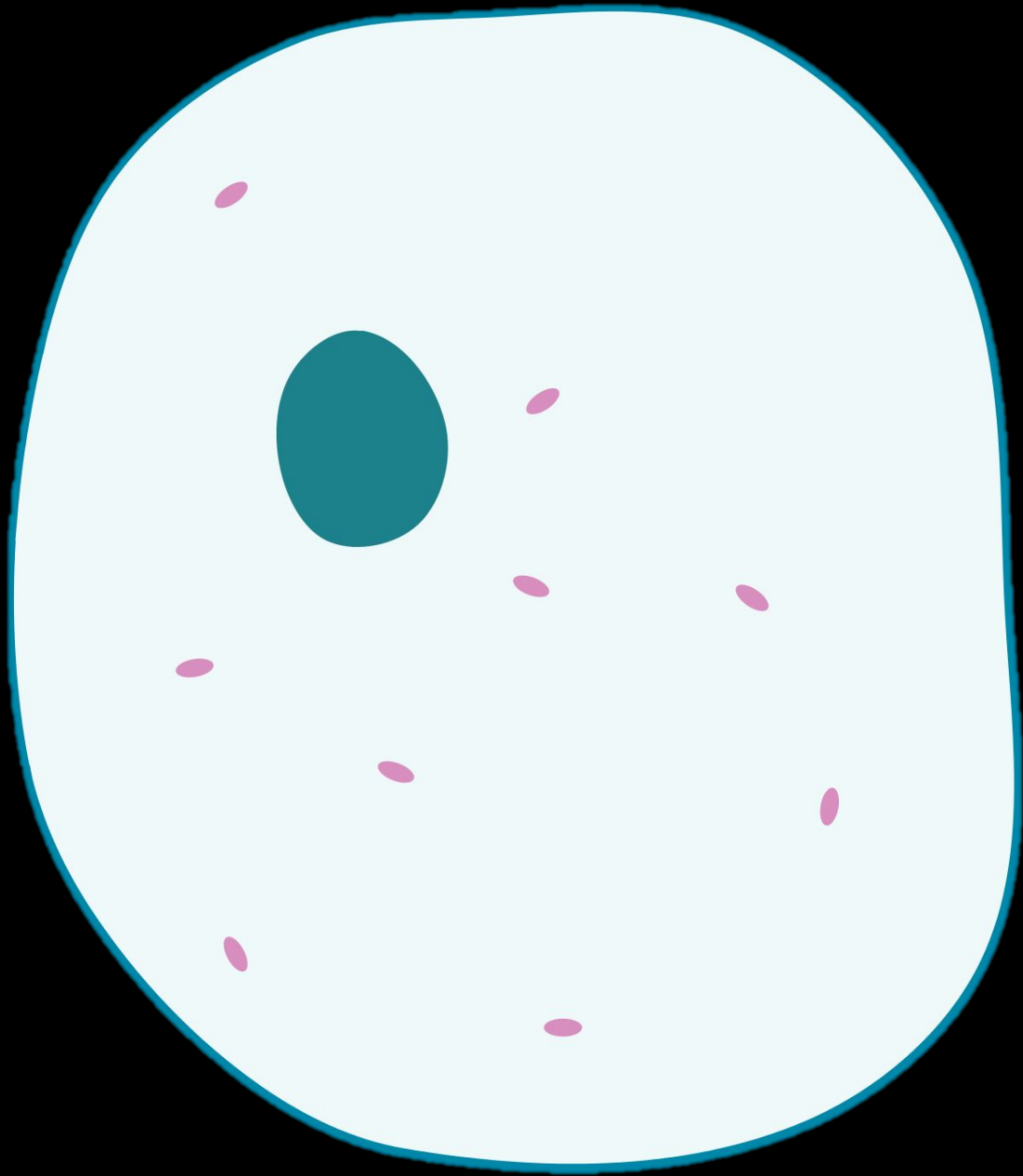
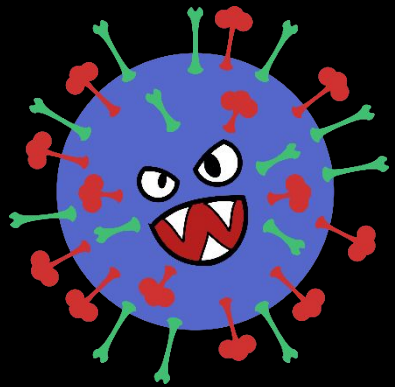


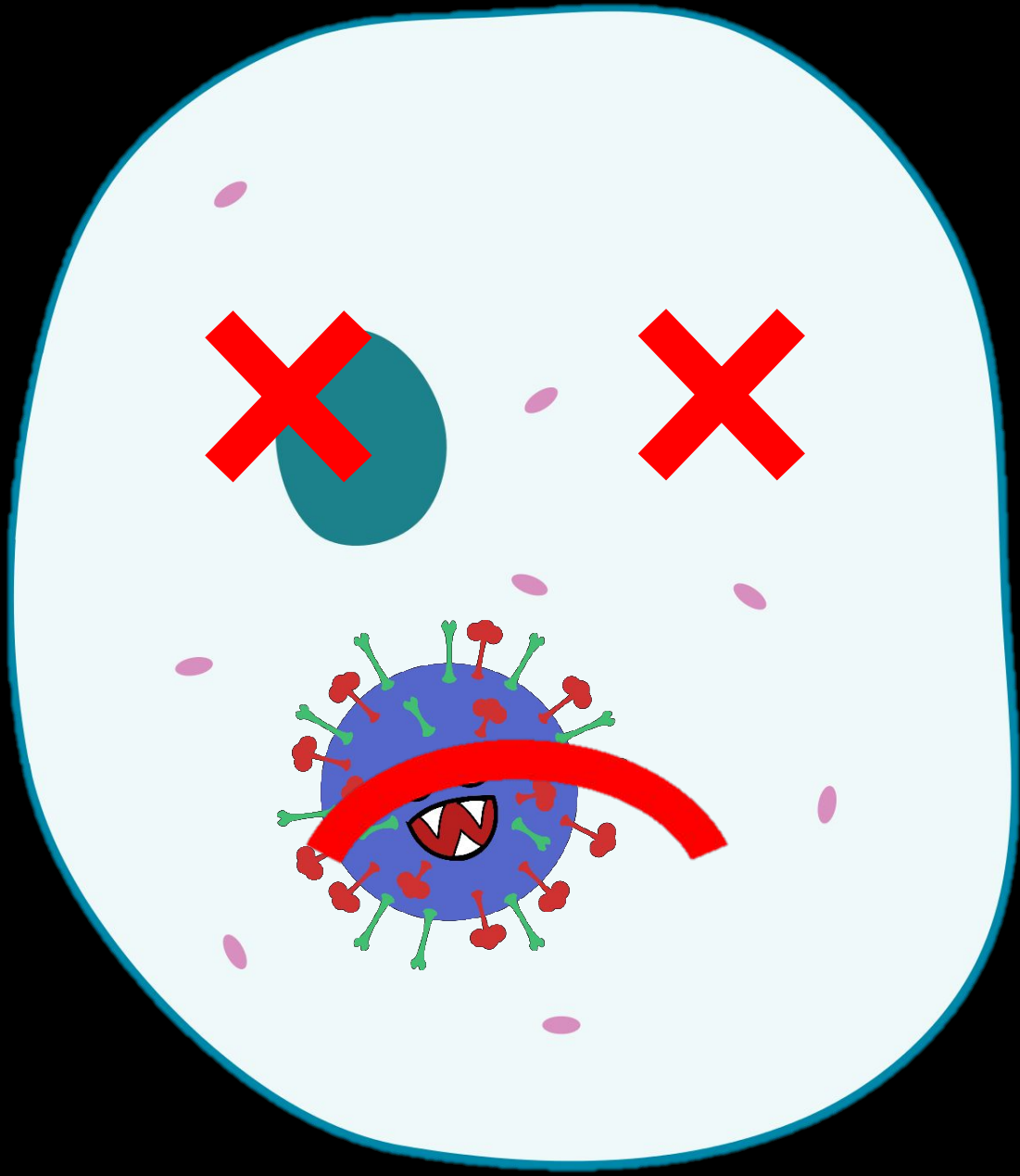
MISS ME?

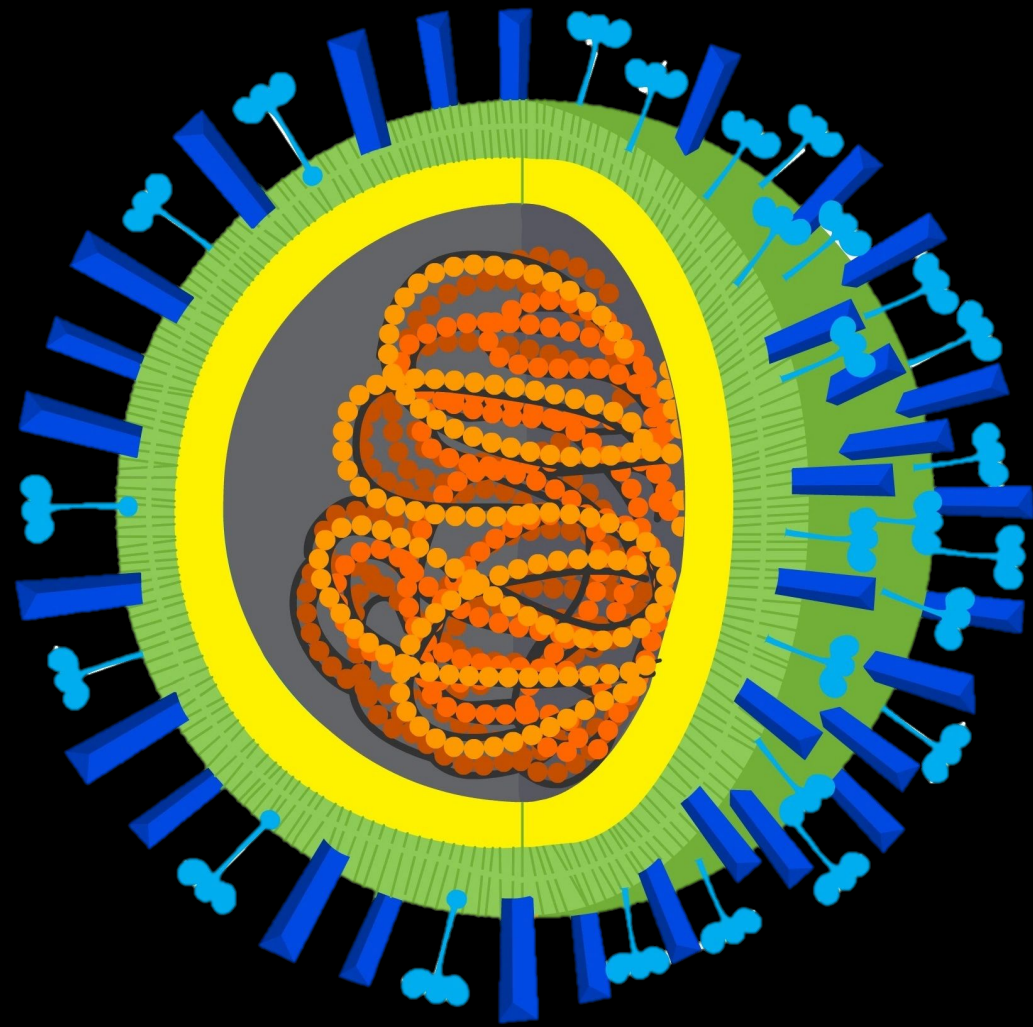


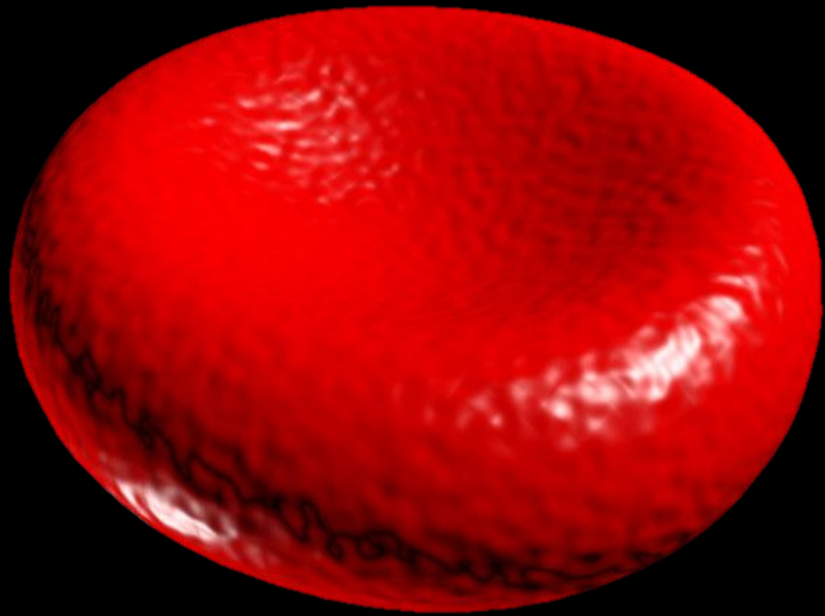




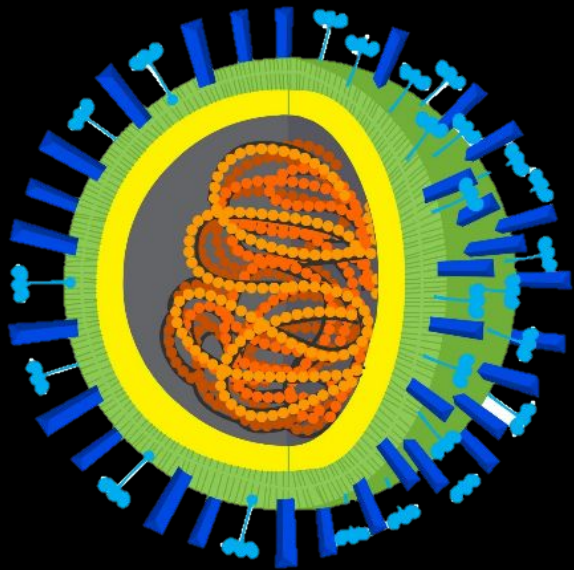






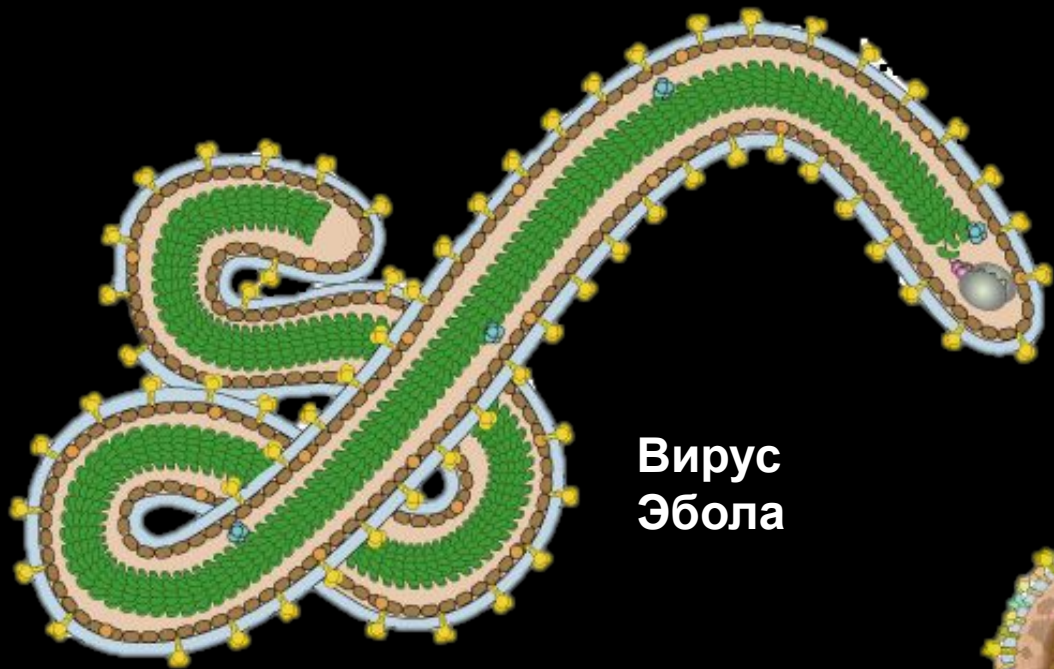


8 МКМ

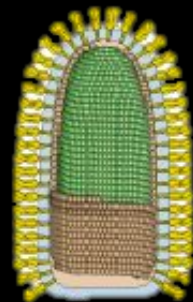


0,02 МКМ

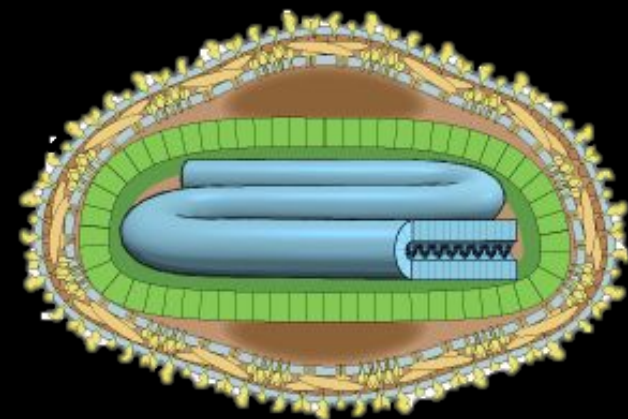




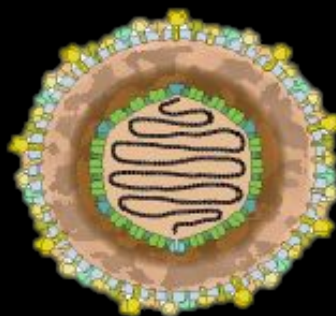
Вирус
Эбола



Вирус
бешенства



Вирус
оспы



Вирус
герпеса



Вирус
кори



ВИ
Ч



Вирус
гриппа



Аденовир
ус



Вирус
Зика



Вирус
гепатита
С



Вирус
полиомиели
та

Строени

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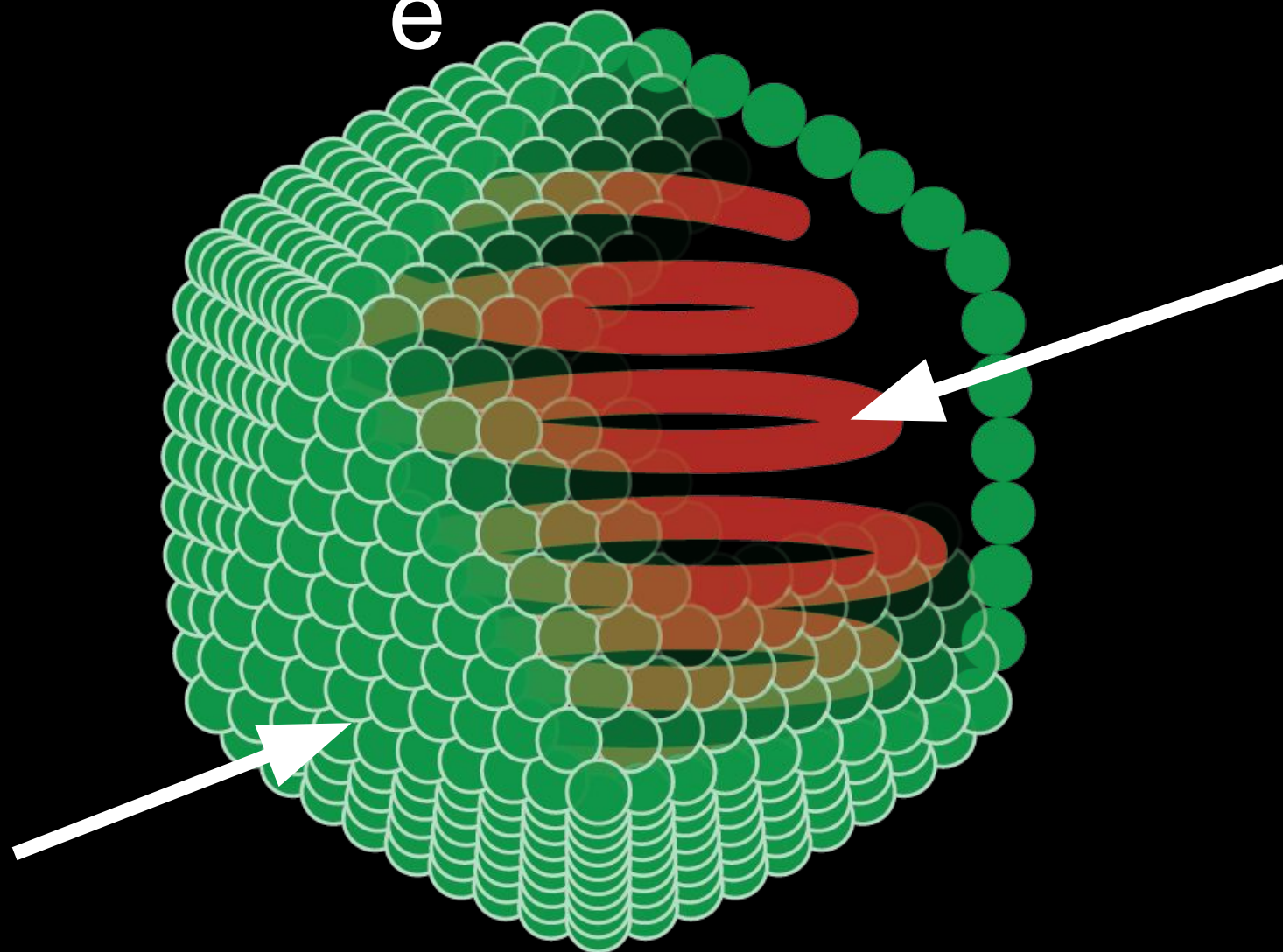
- Простые
- Сложные (с оболочкой)

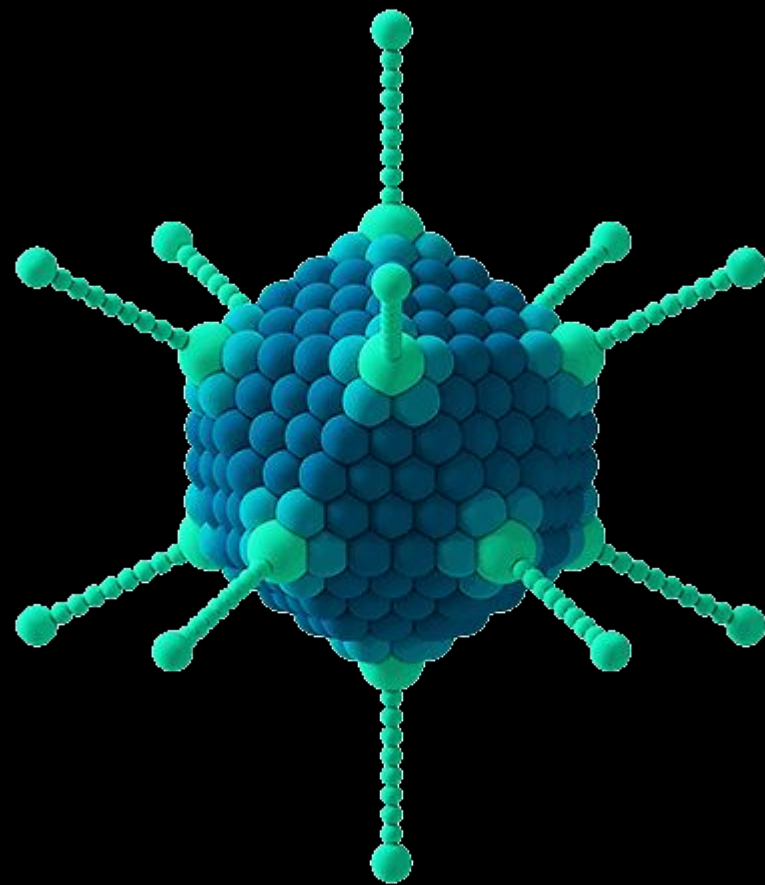
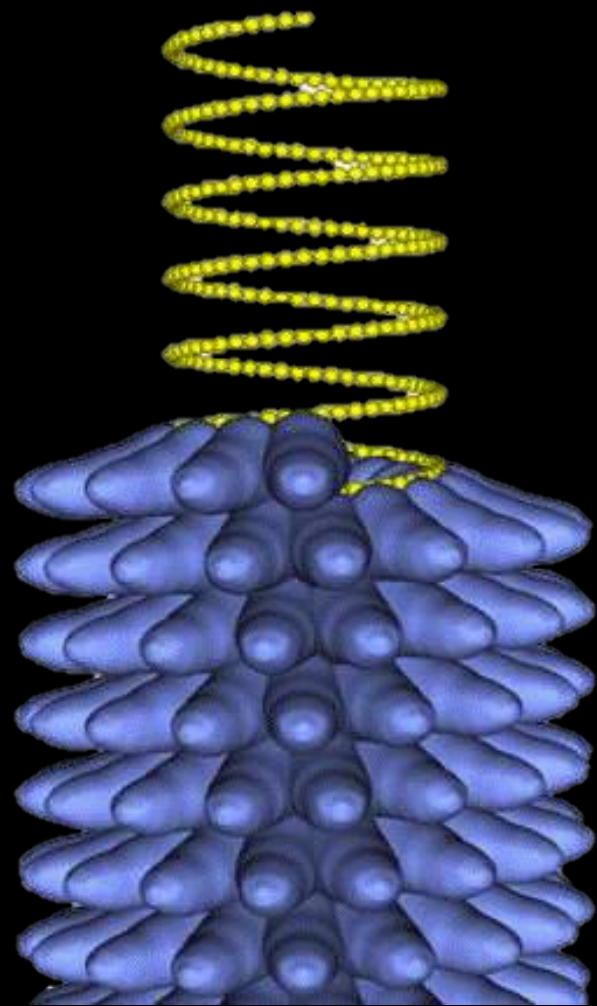
Строени

е

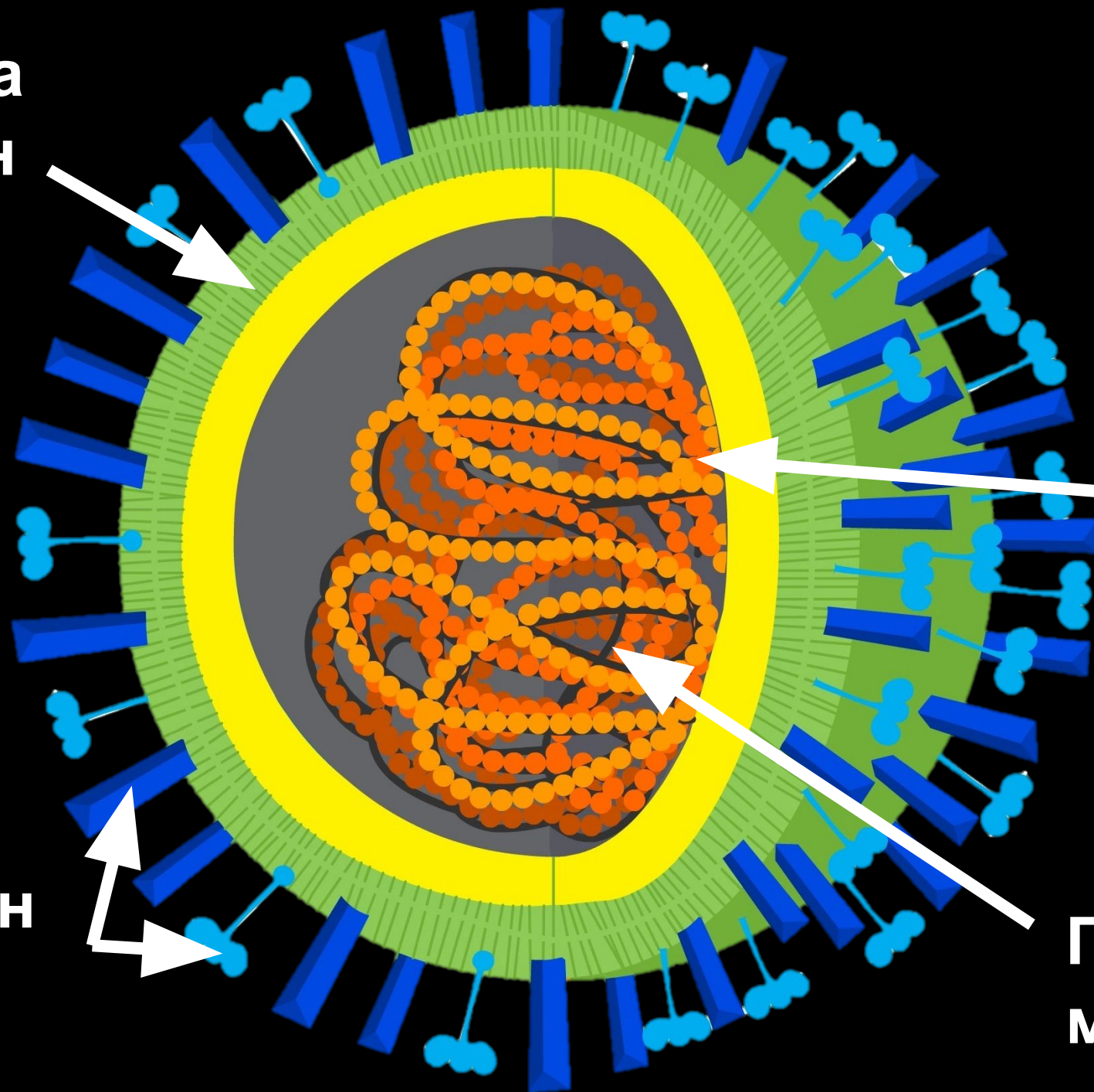
Гено
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Белковый
капсид





Оболочка
(мембрана)
а)



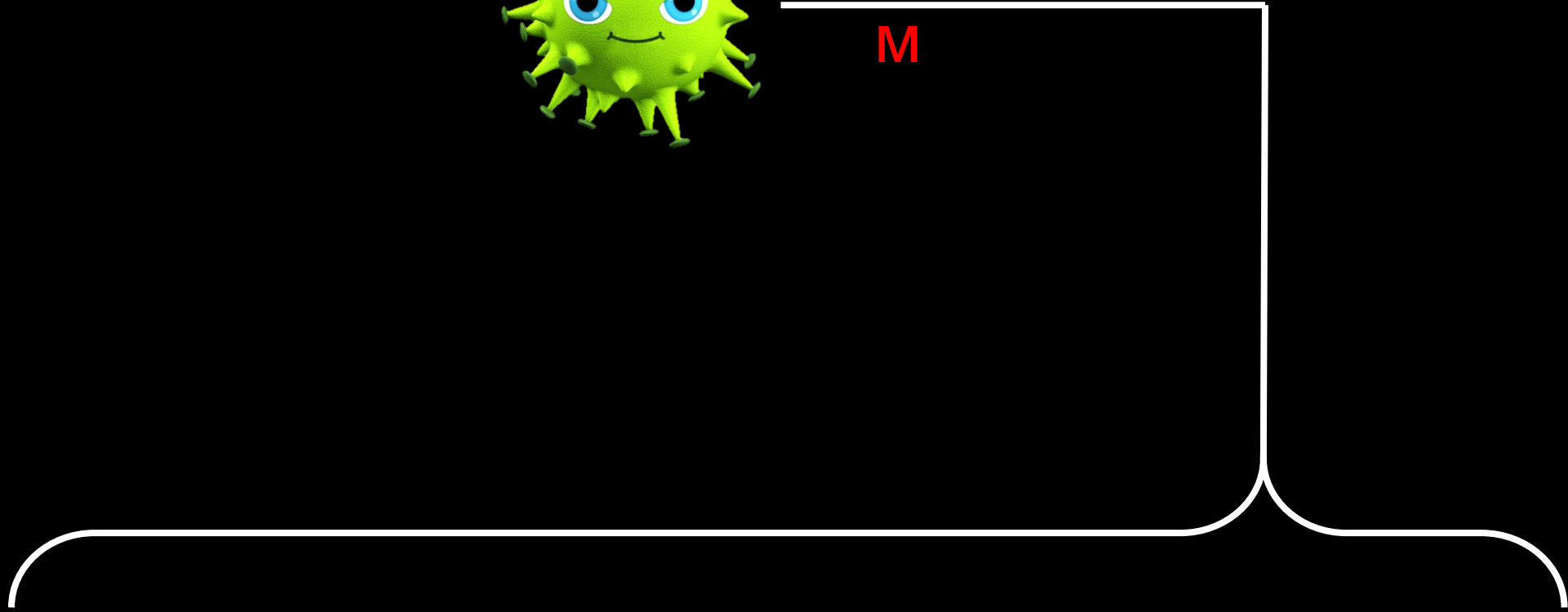
Капси
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Поверхностн
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белки

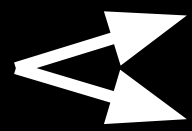
Гено
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Гено
м



- ДНК-вирусы
- РНК-вирусы



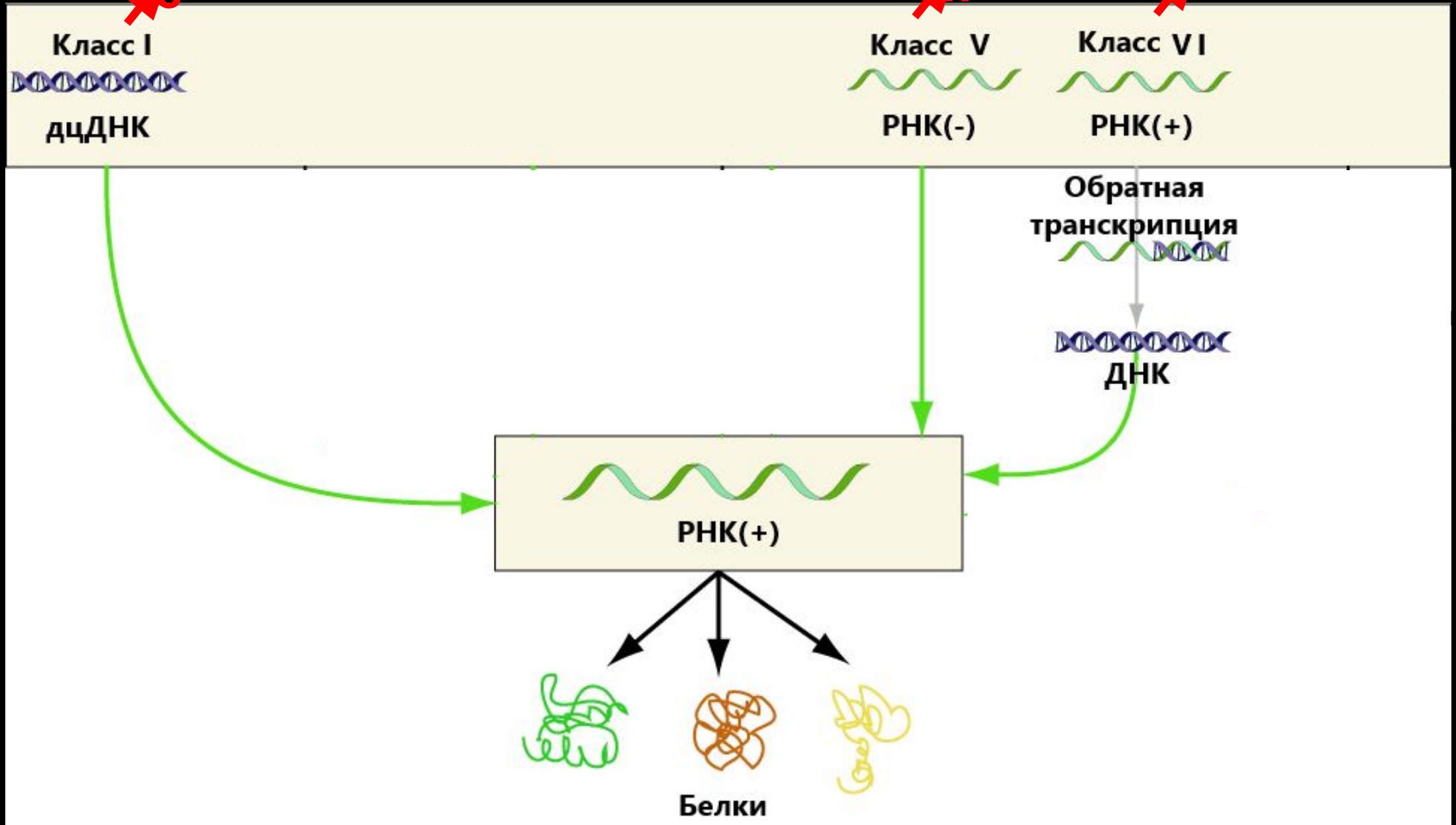
- Собственно РНК-вирусы
- Ретровирусы

Герпе

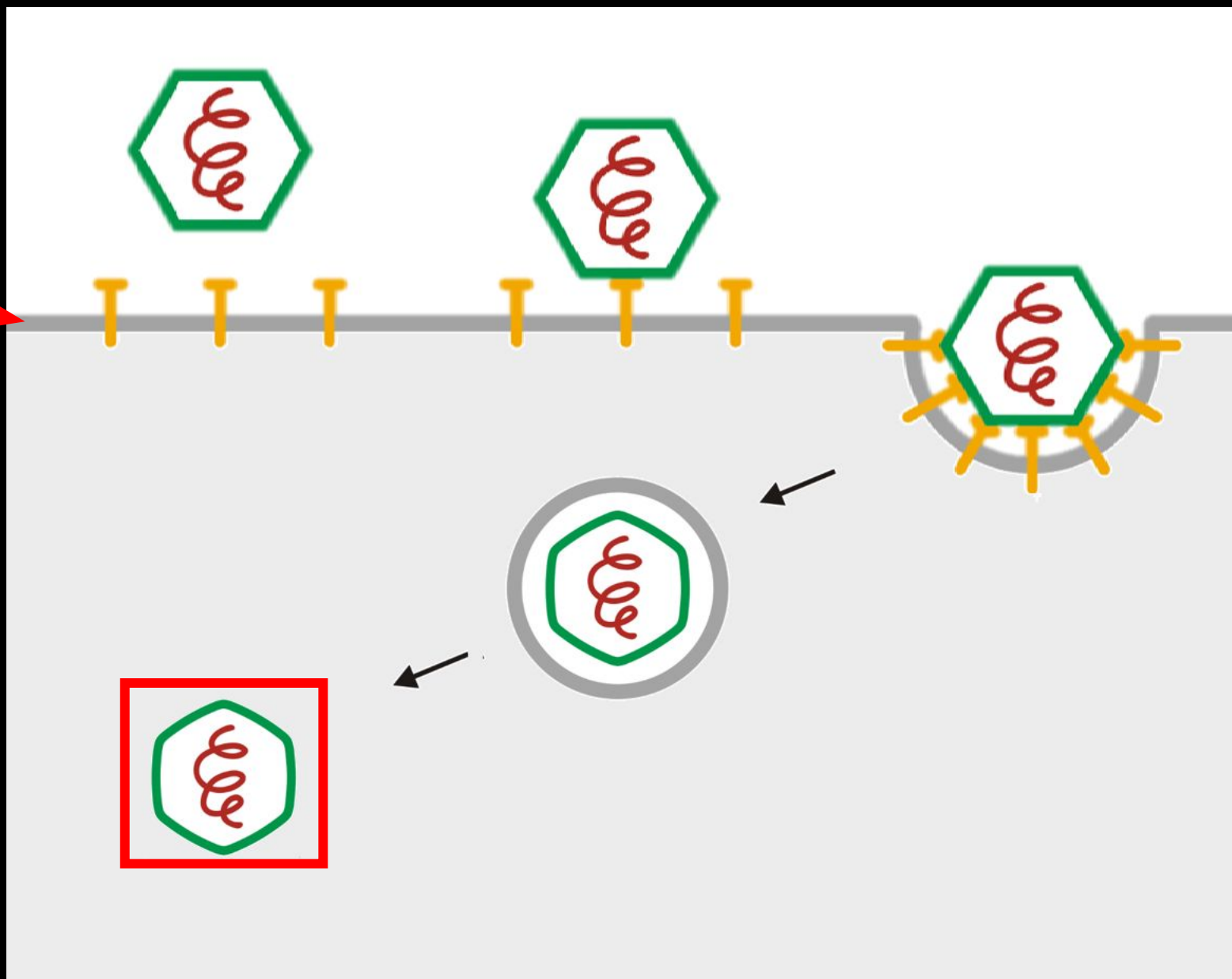
Гено

Грип

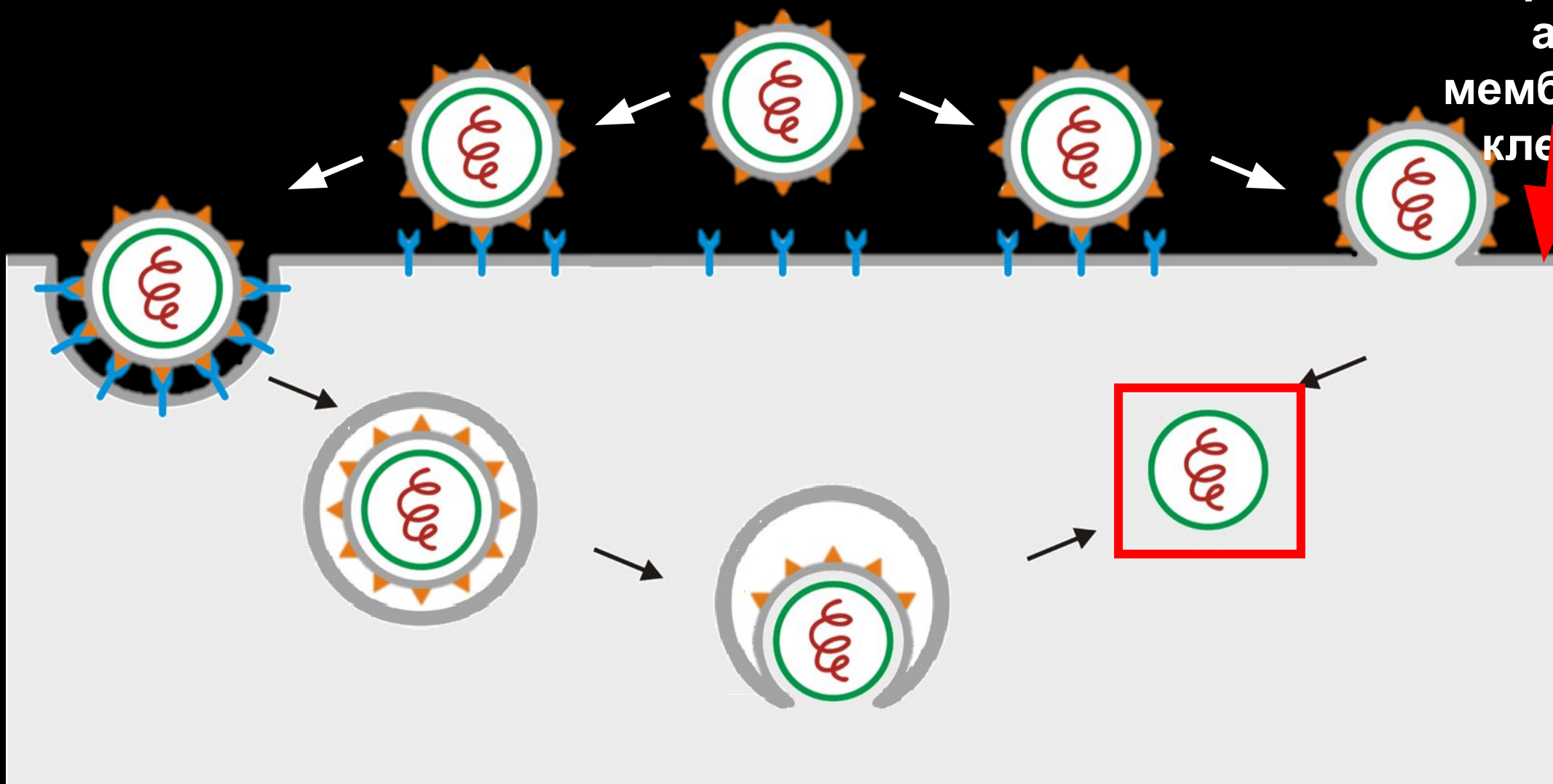
ВИ



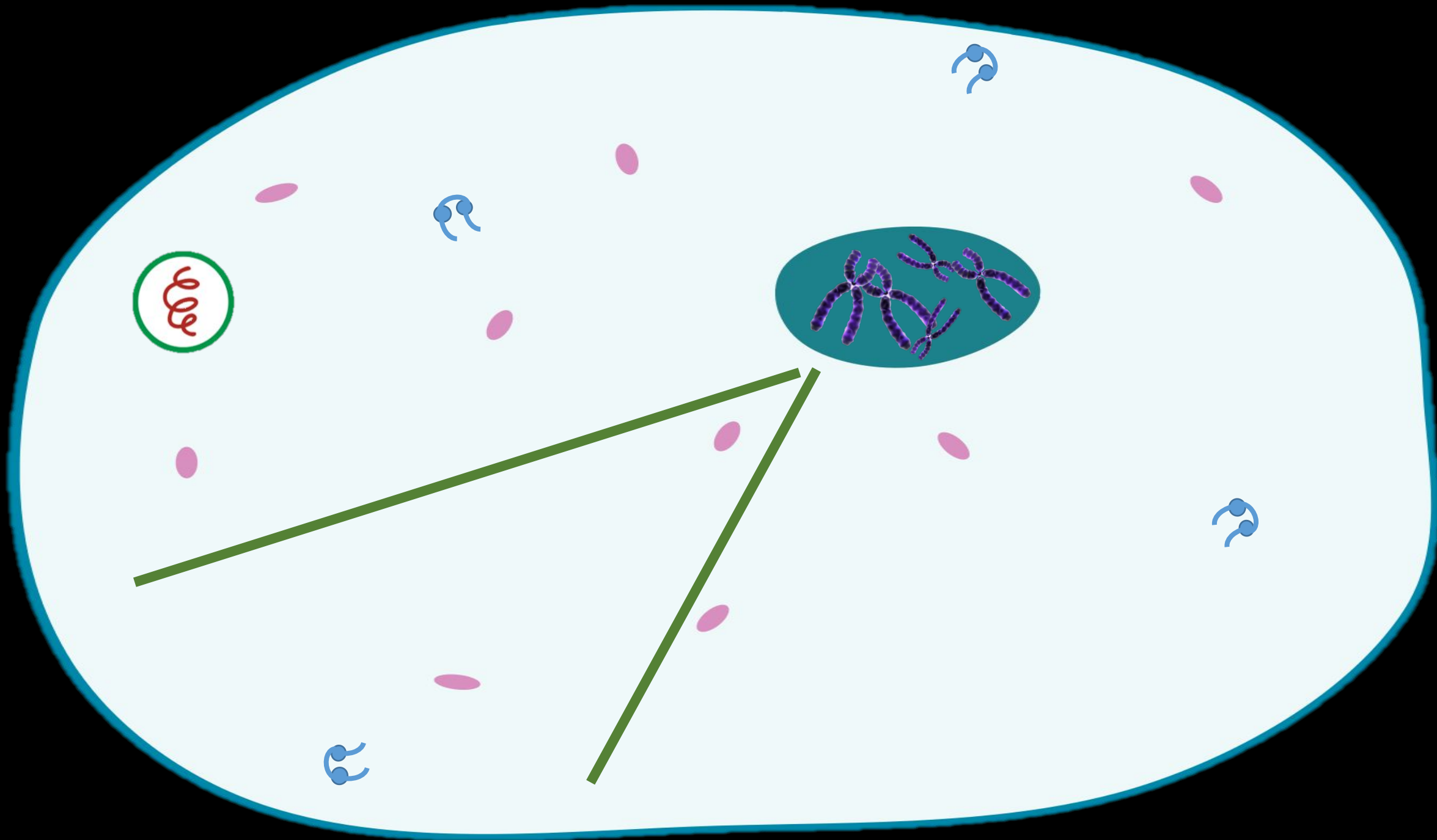
Поверхности
ая
мембрана
клетки

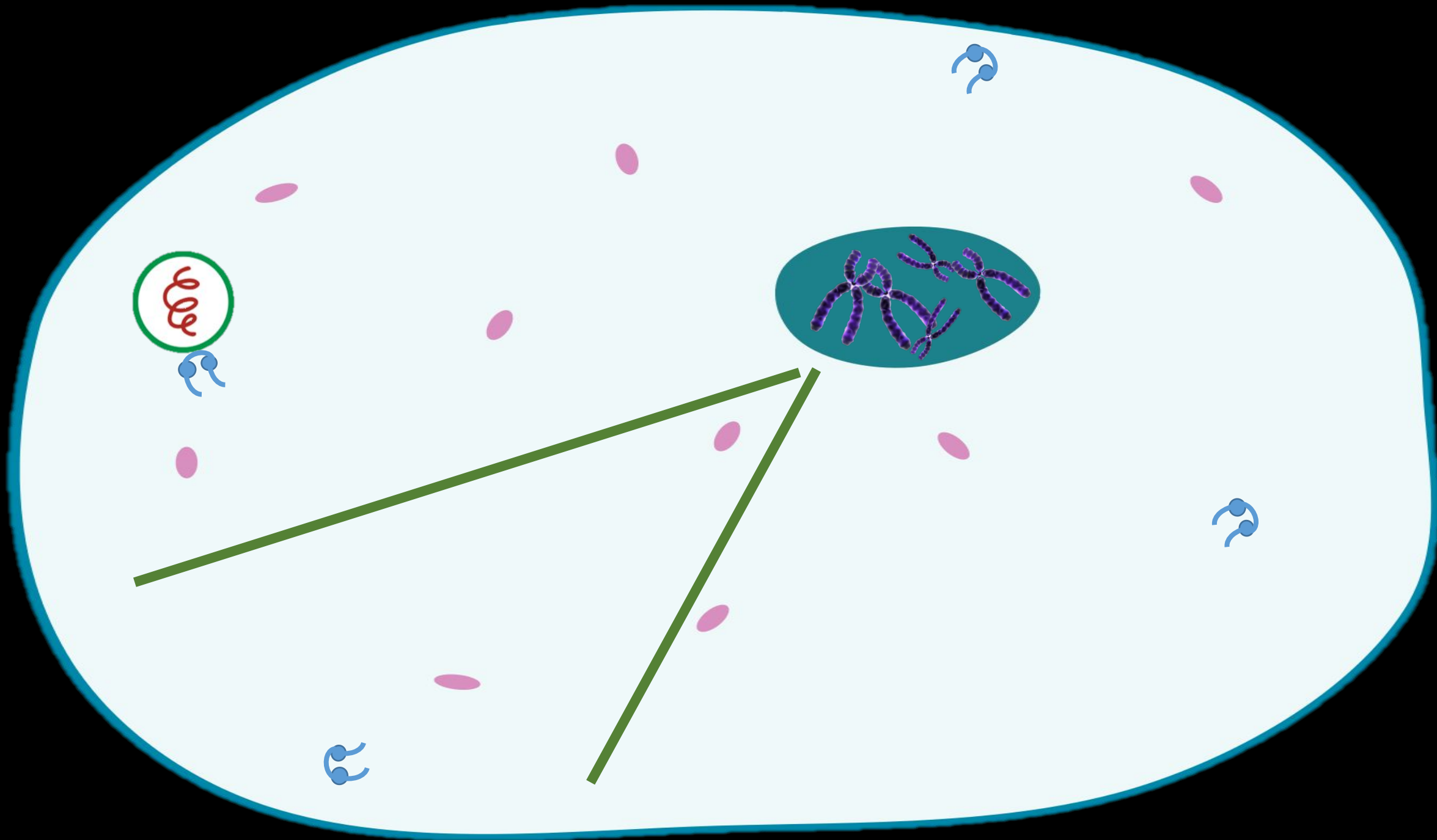


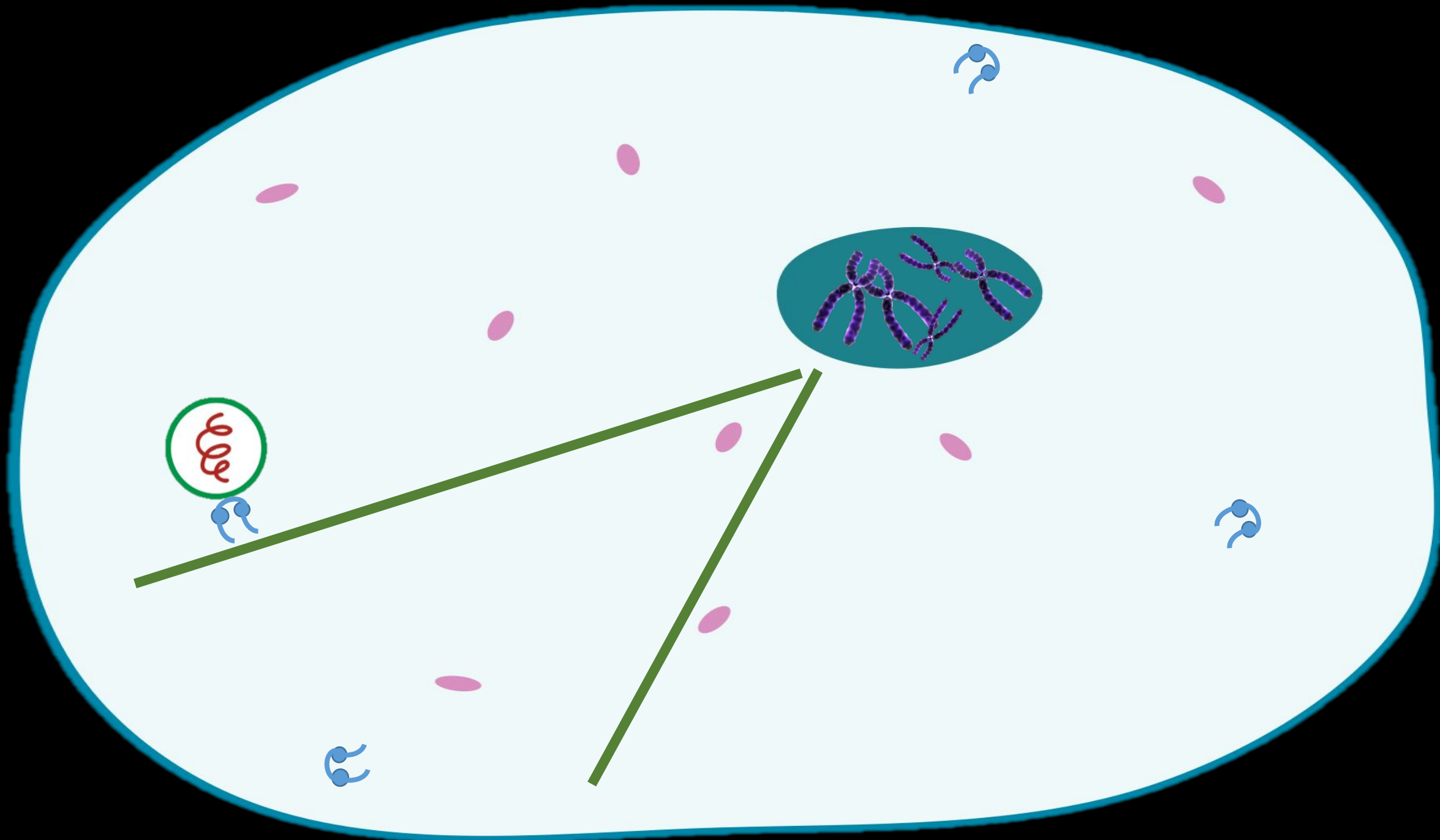
Поверхностная
мембрана
клетки

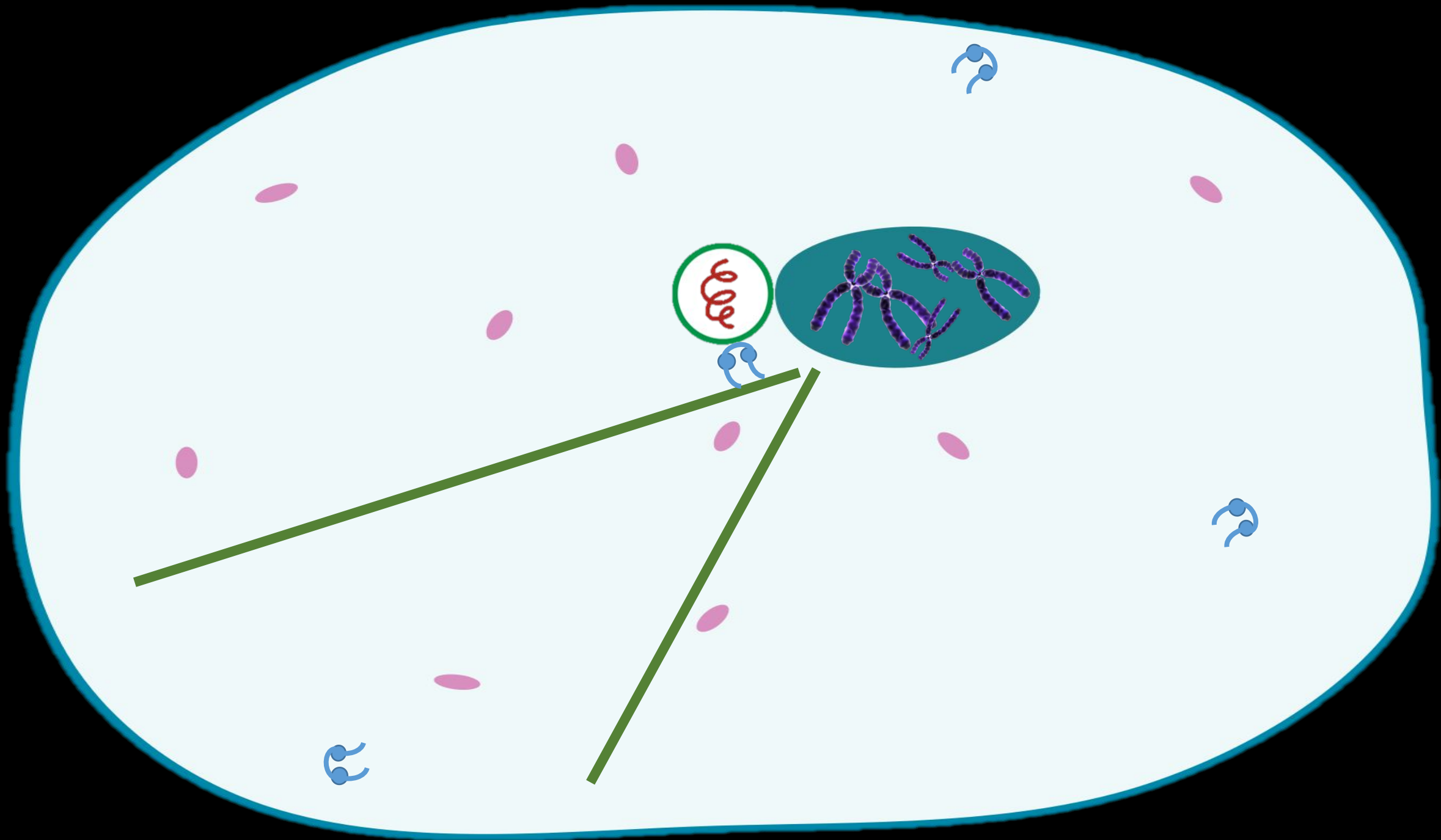








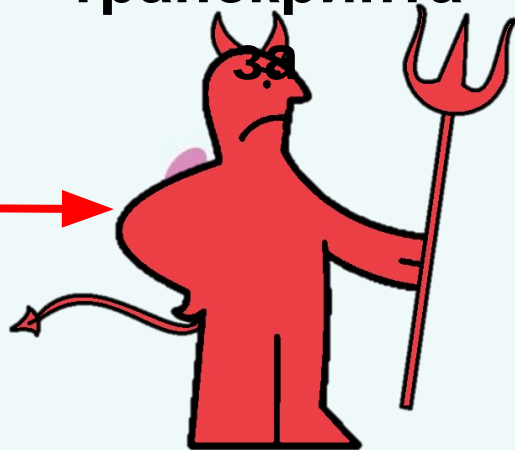




Ретровирус ВИ



Обратная транскрипта



РН
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ДН
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(это неправда)

REverse

ТОбратная транскрипция
TRanscription

Обратная
транскрипта



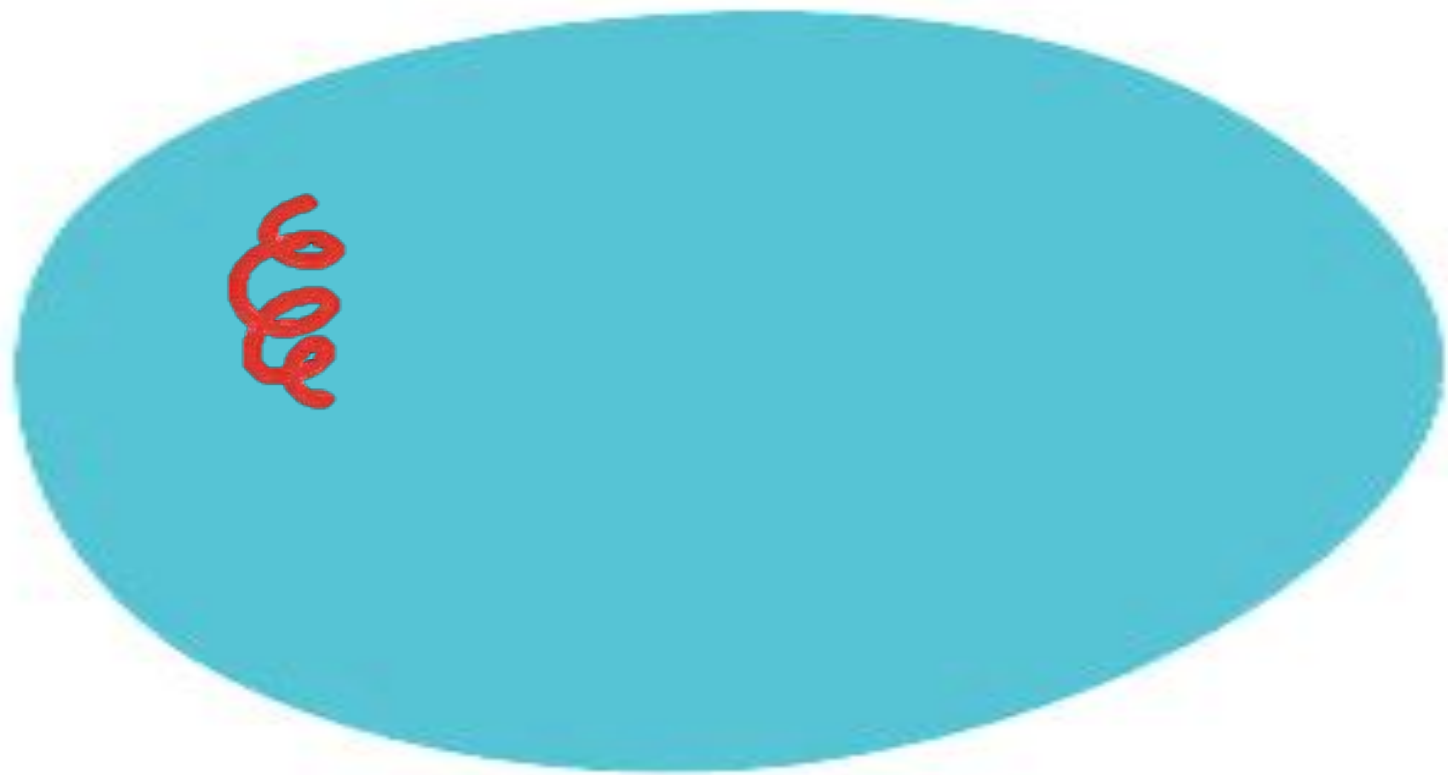
РН
К



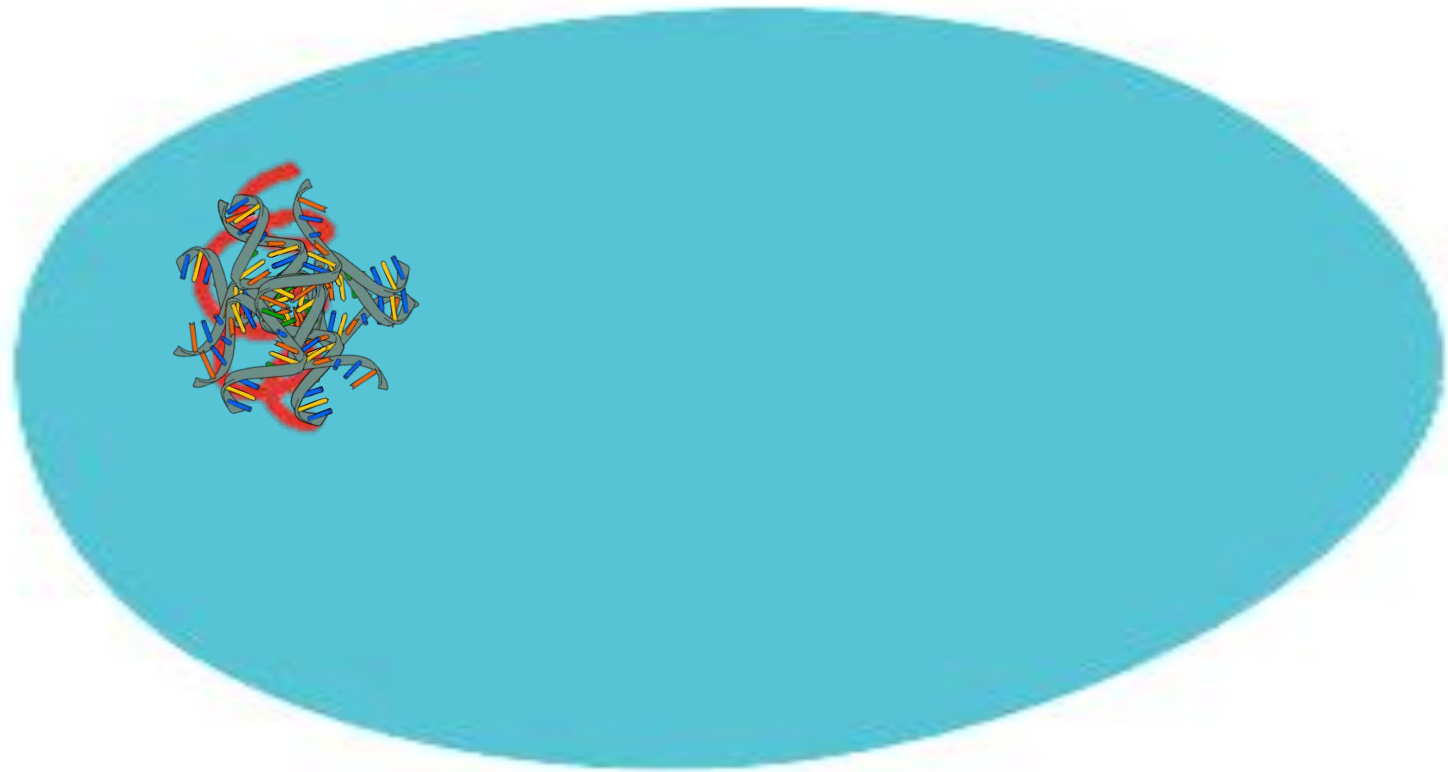
ДН
К

ВО ВСЕМ ВИНОВАТЫ ГЕНЫ



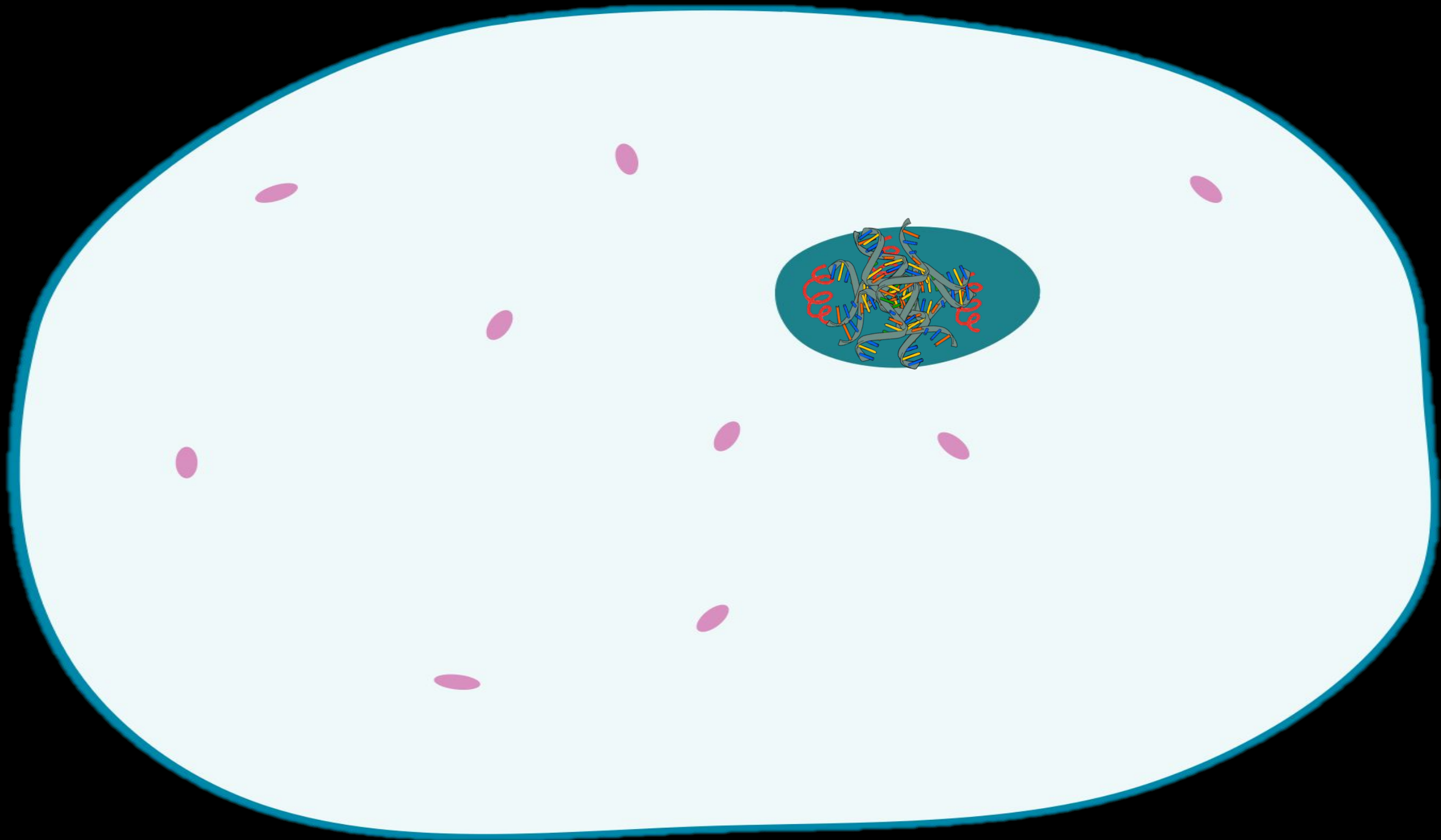


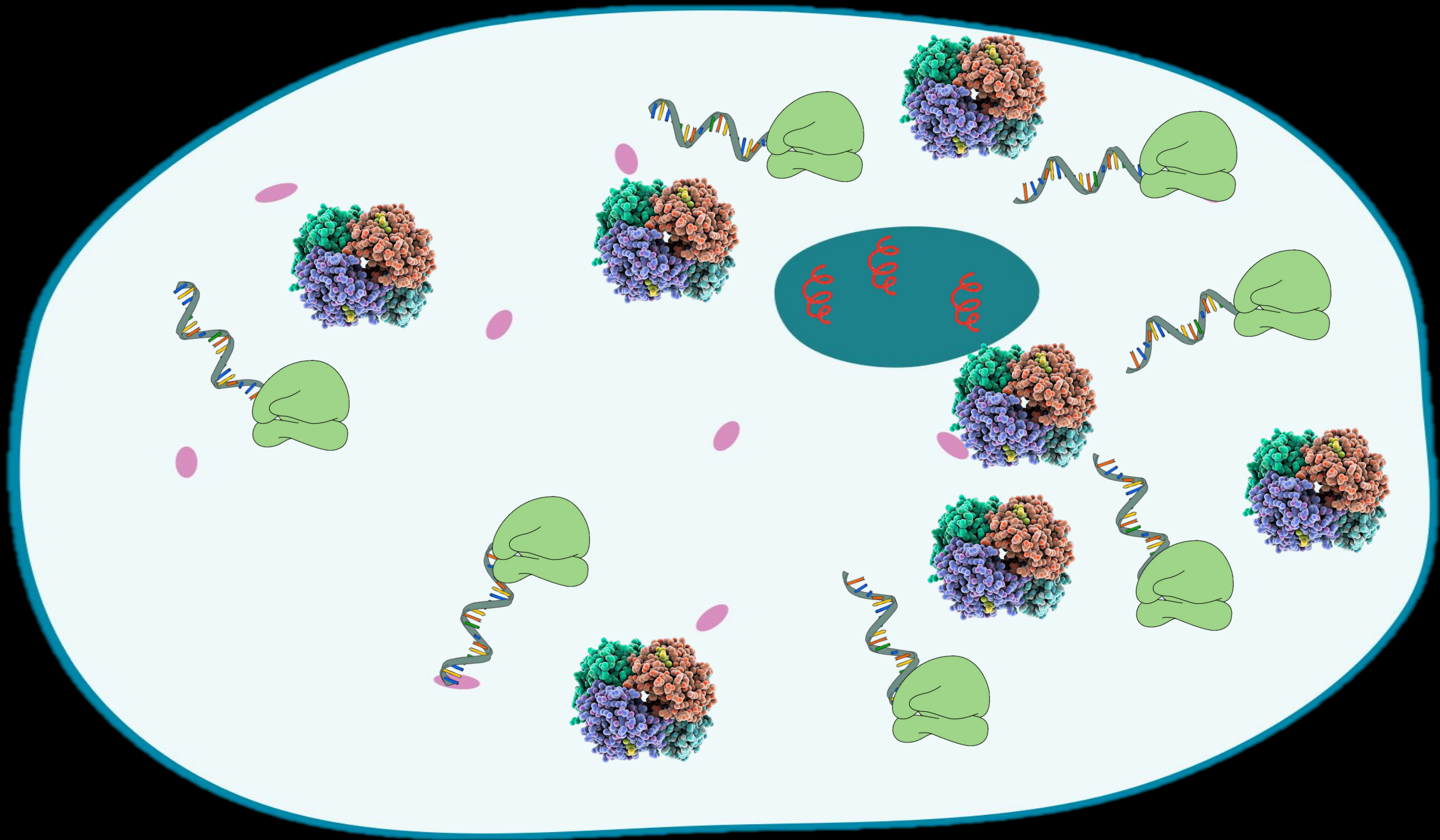
**ДНК-полимераза или РНК-
полимераза**

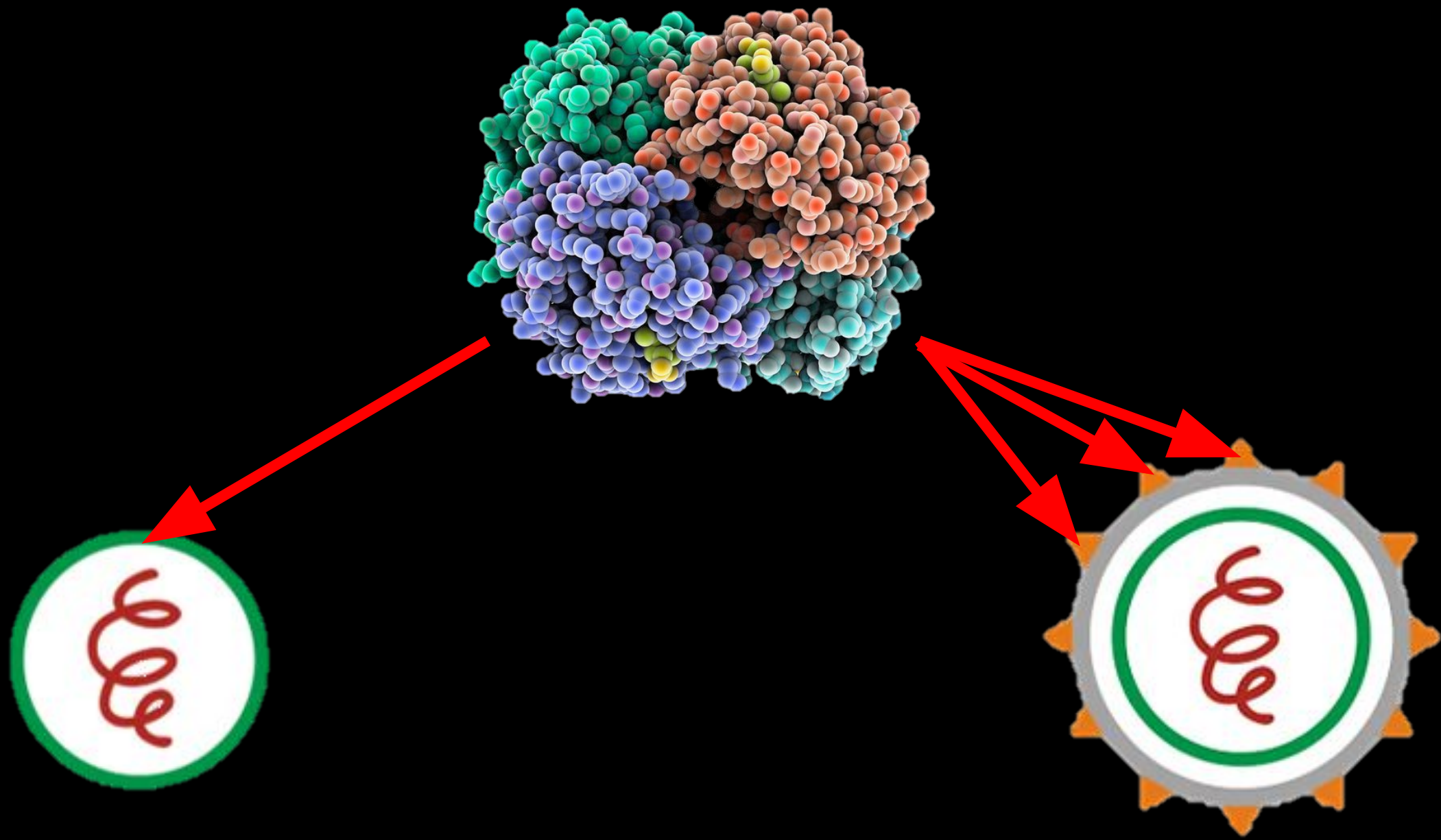


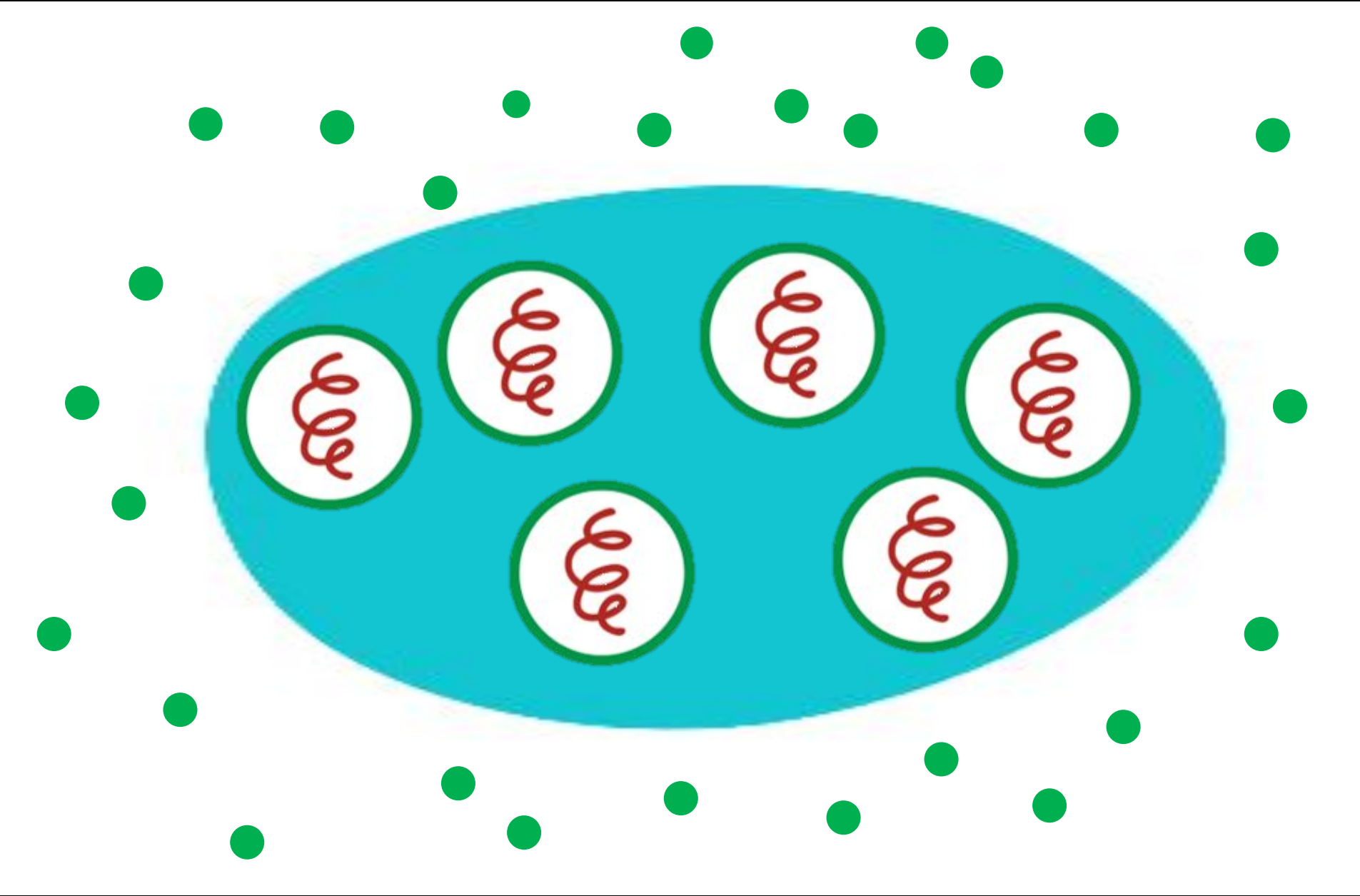
PTK-

EGEYVQ2000



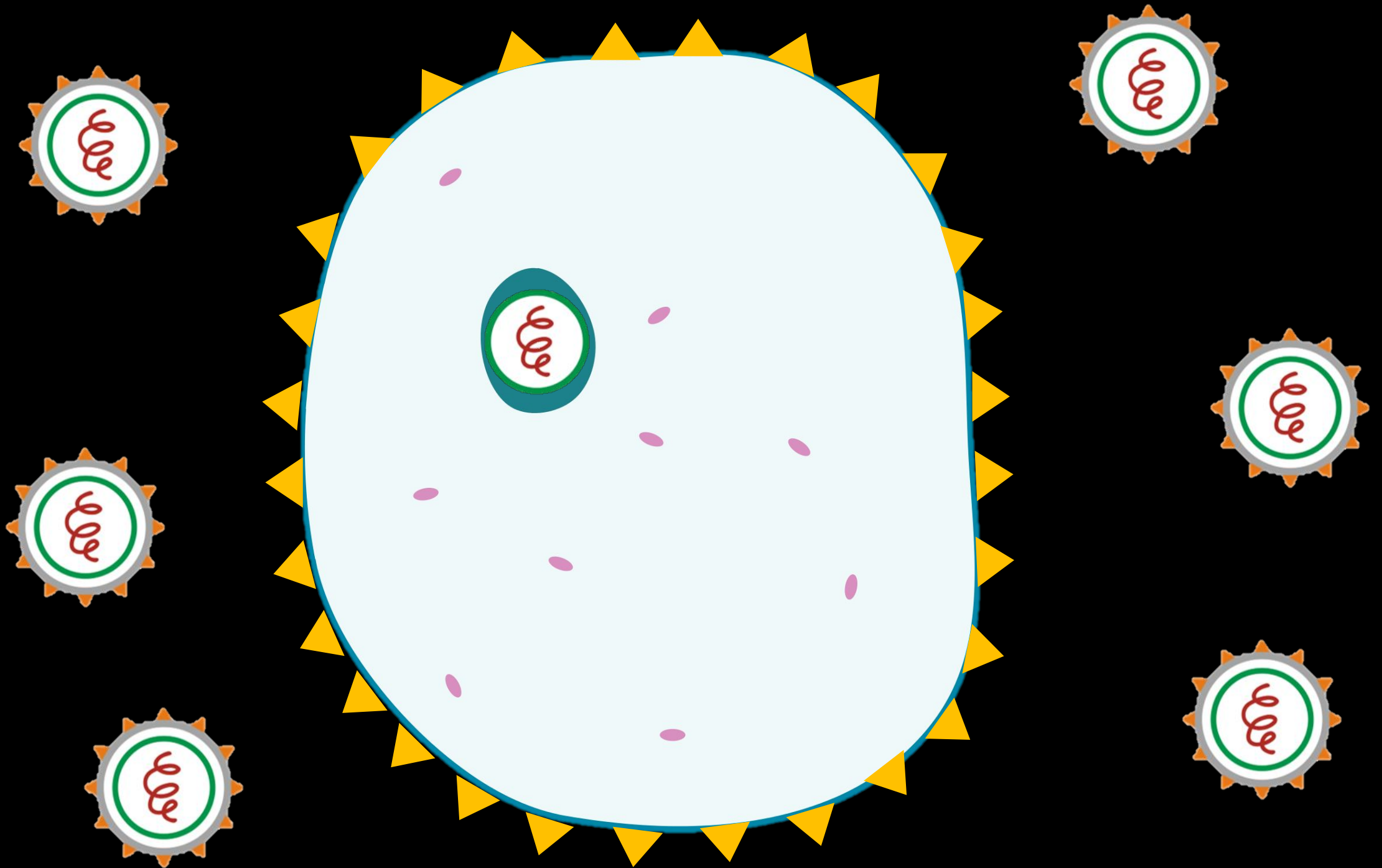


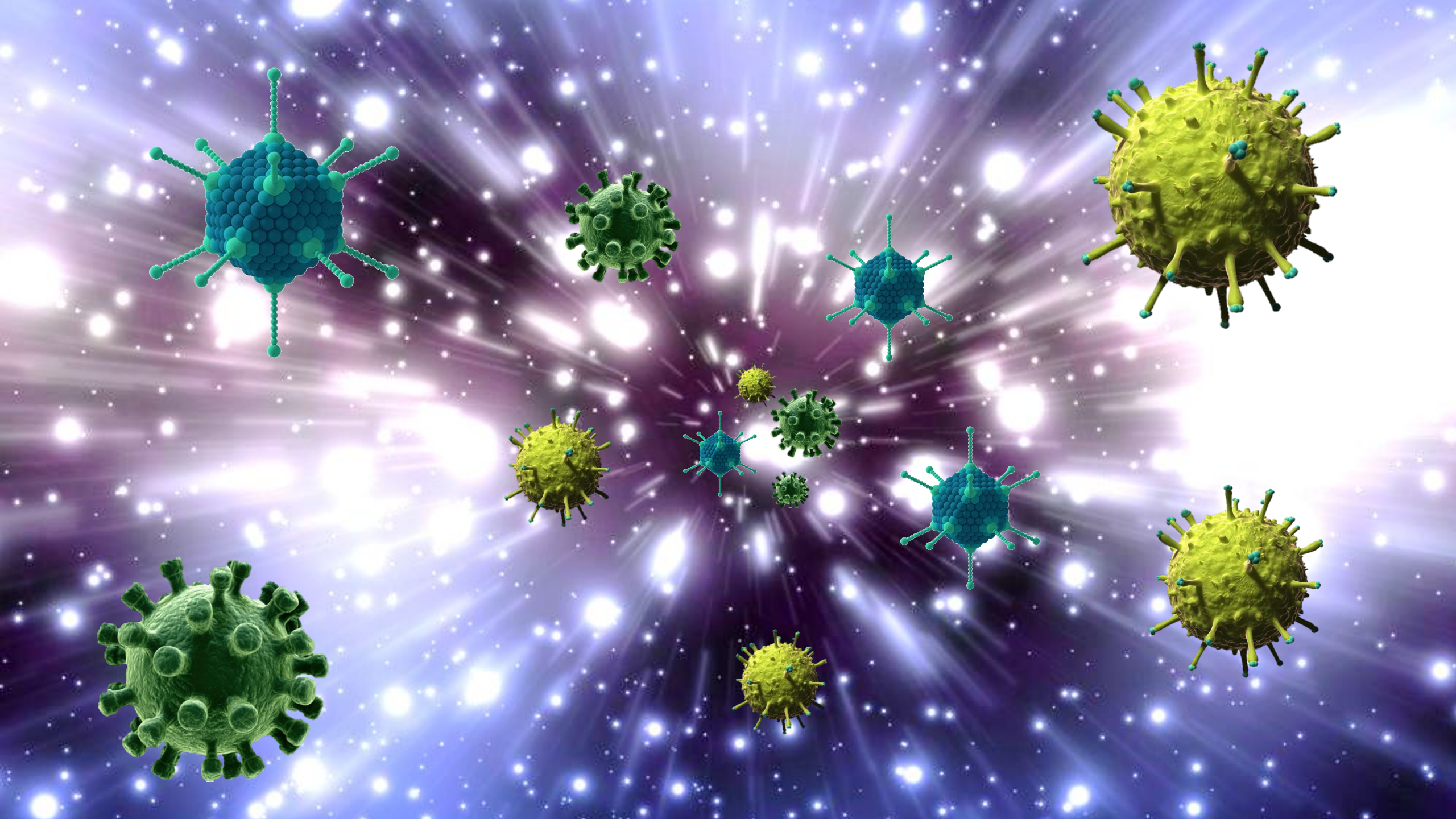




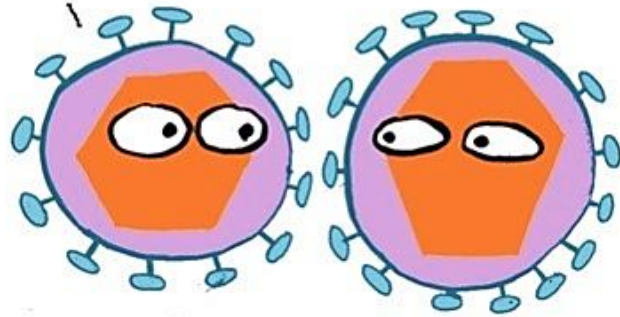




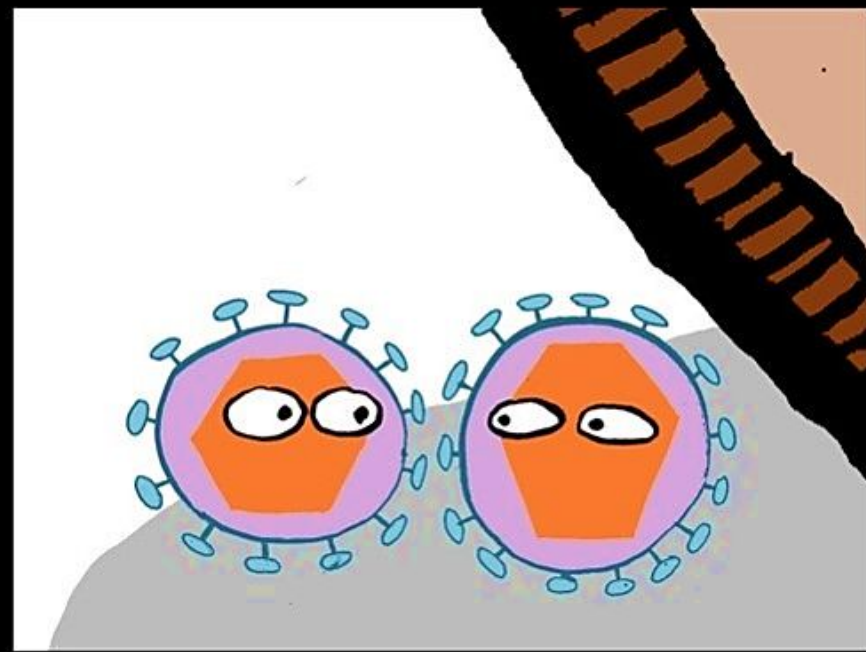




Я прочитал в новостях,
что ученые нашли
во льдах Сибири
гигантский вирус
возрастом 30000 лет!



Да ладно, газеты
всегда склонны
преувеличивать.



Прив.

