

15 минут про организм и лекарства

Какие вообще бывают
лекарства?



- Проверены на клинических испытаниях
- Назначаются врачом
- Дорого стоят
- Обладают побочными эффектами



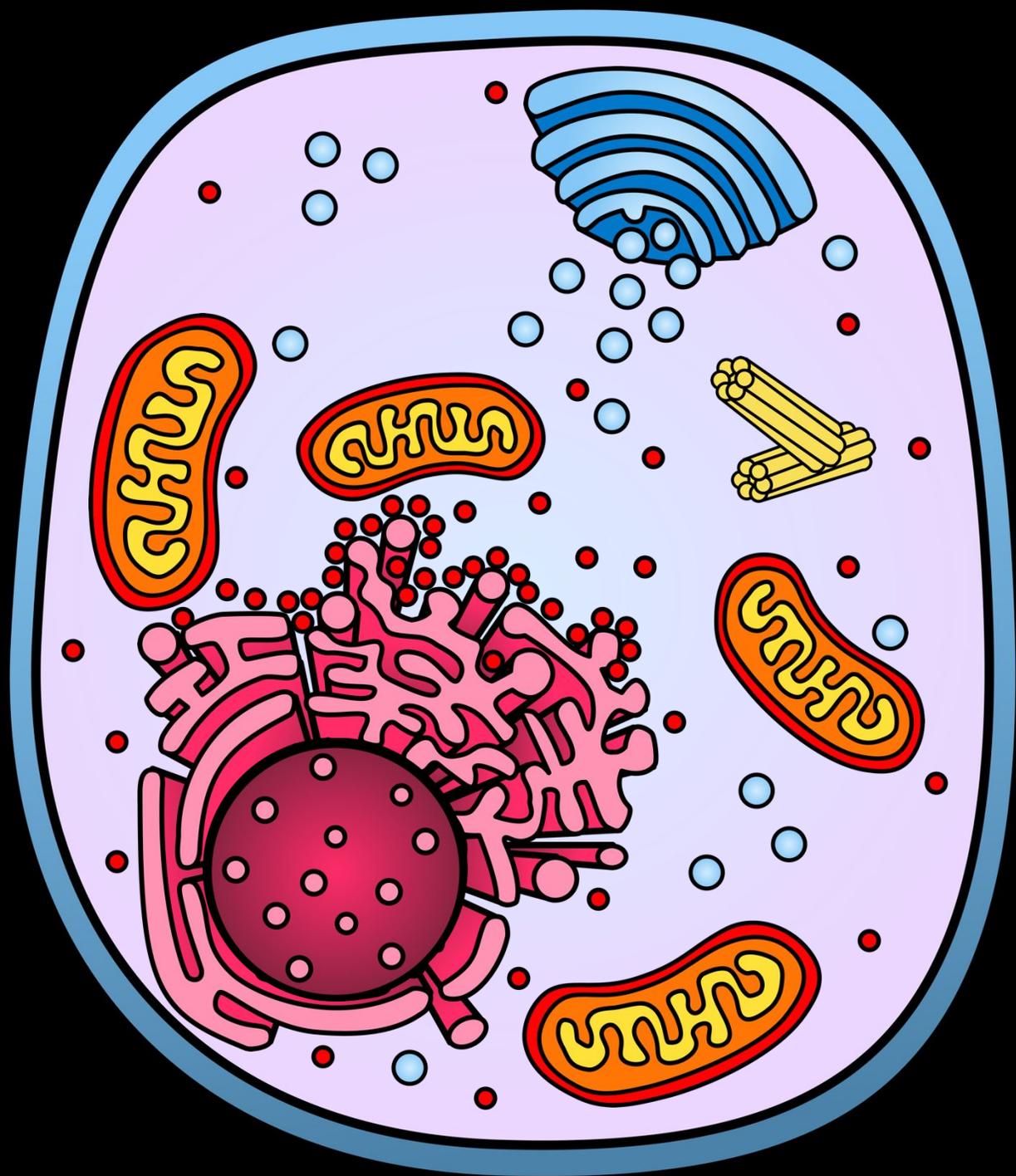
- Тысячелетние традиции
- Назначаются соседкой
- Растут под ногами
- Проверок не проводилось?



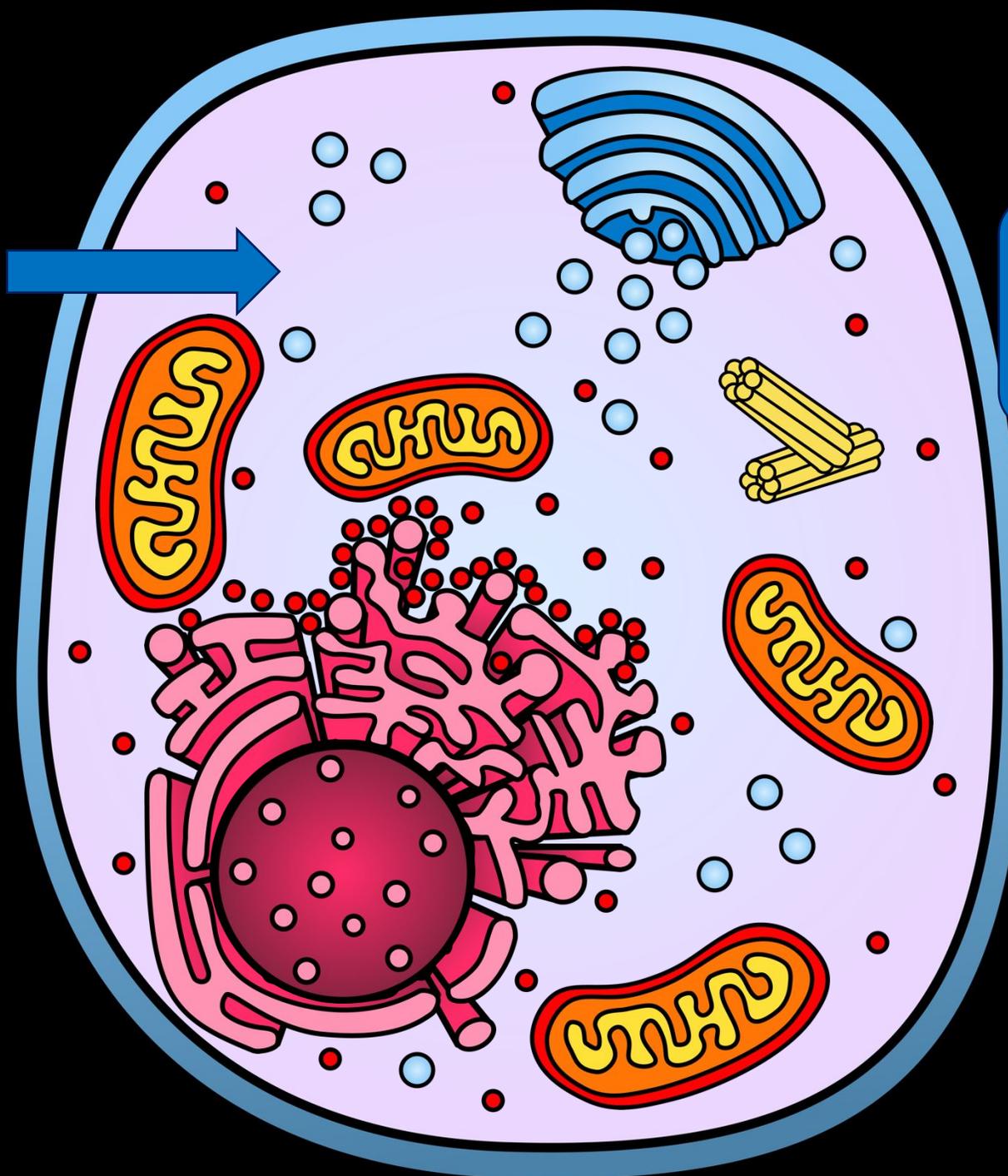
- Ученые скрывают!
- Никаких побочных эффектов
- Назначаются приятными в общении людьми
- Российское ноу-хау



Где работают лекарства?

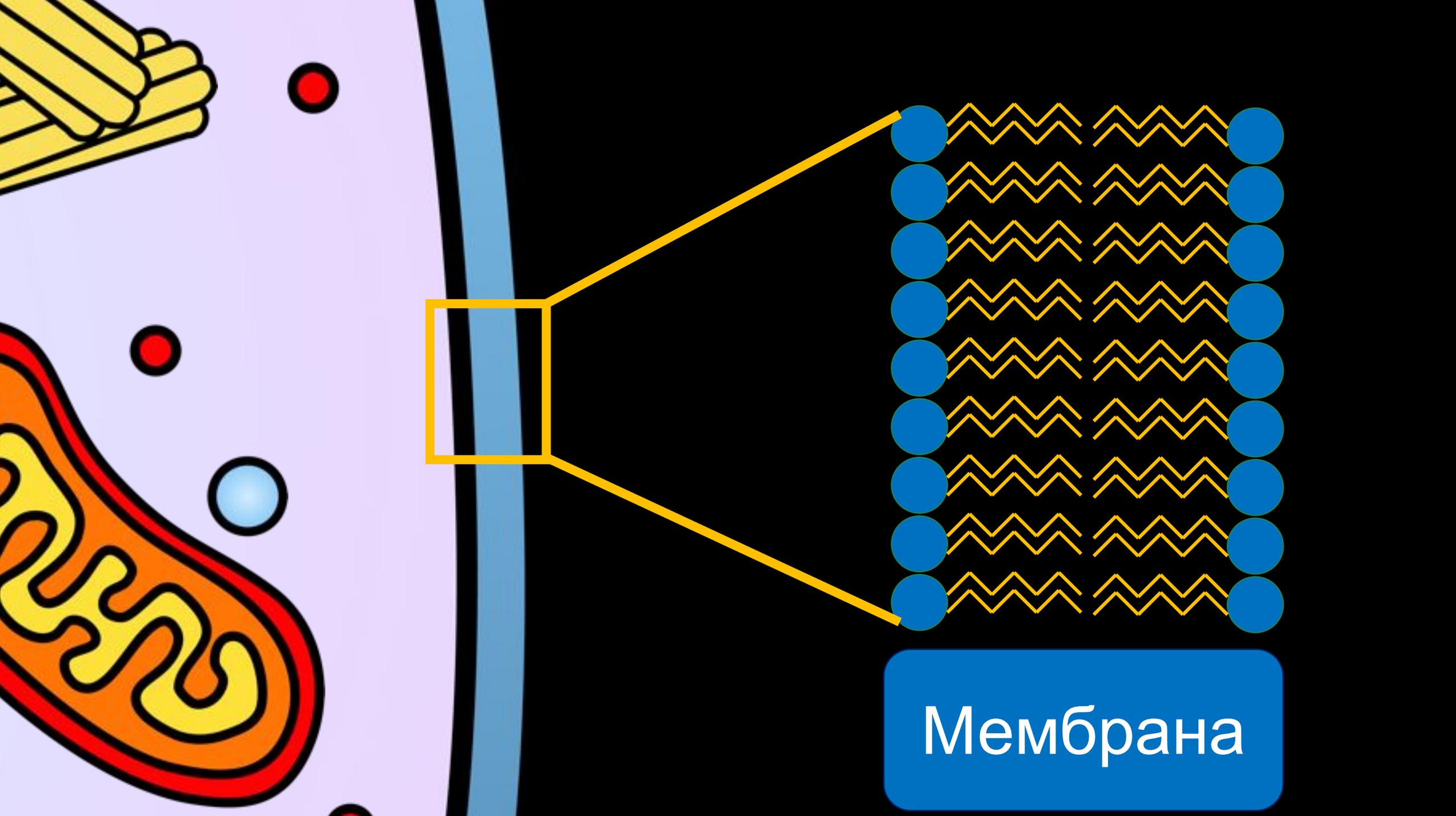


ЖИЗНЬ



Враждебная среда



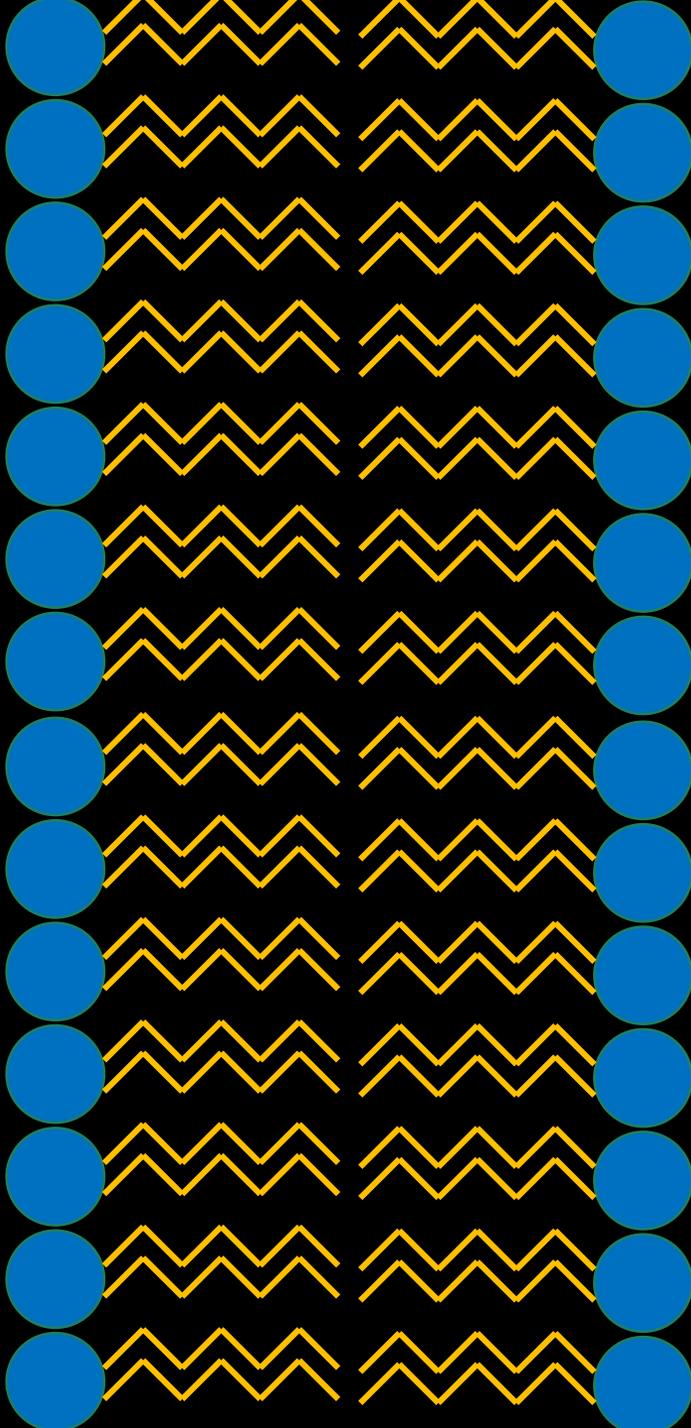


Мембрана

ЖИЗНЬ

ЖИЗНЬ

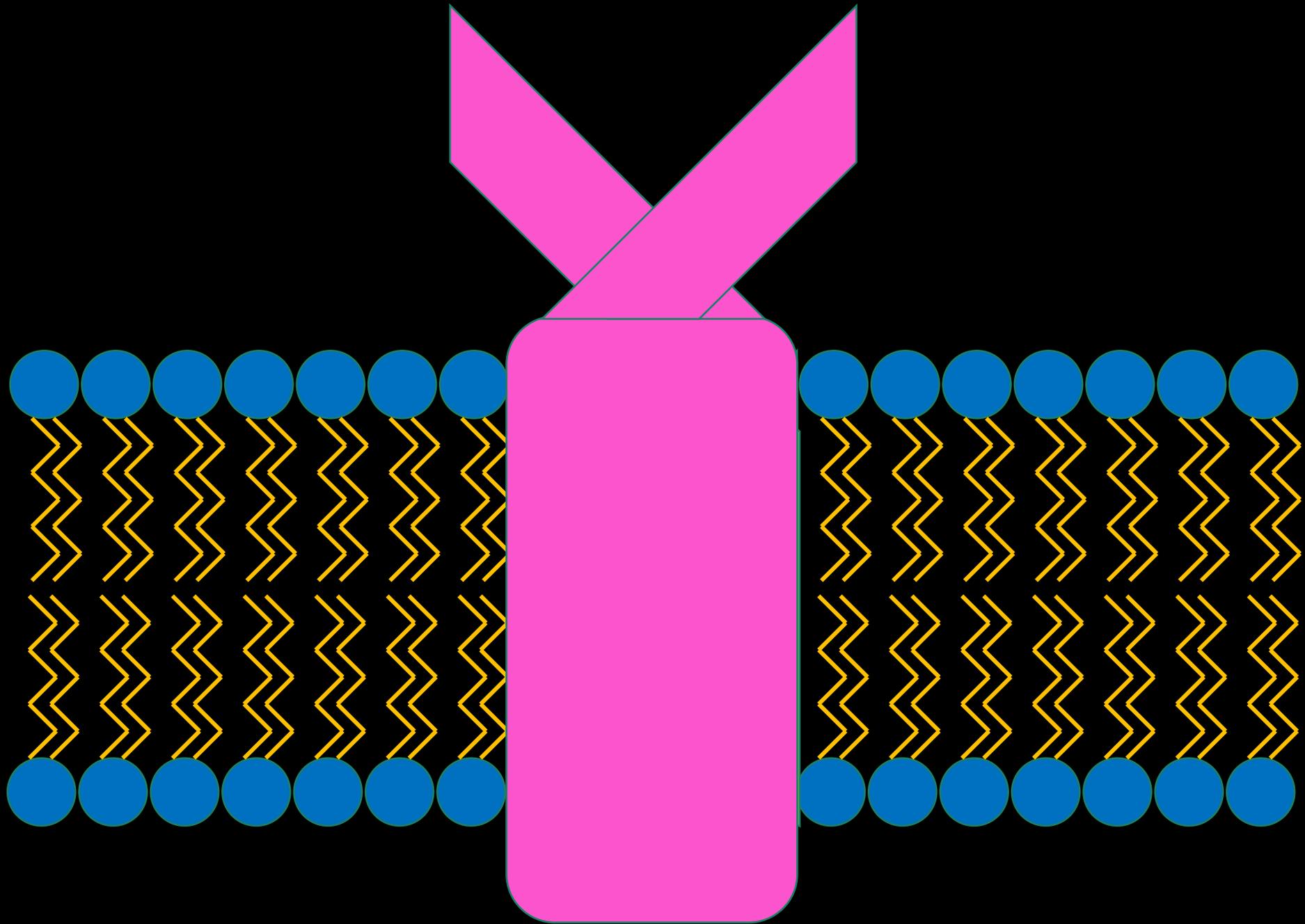
ЖИЗНЬ



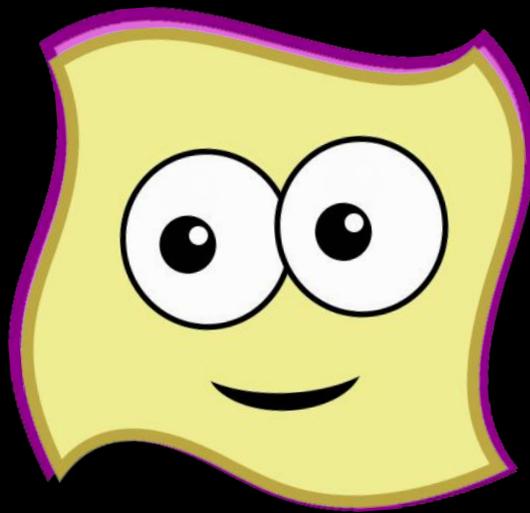
Угрозы

Информаци
я

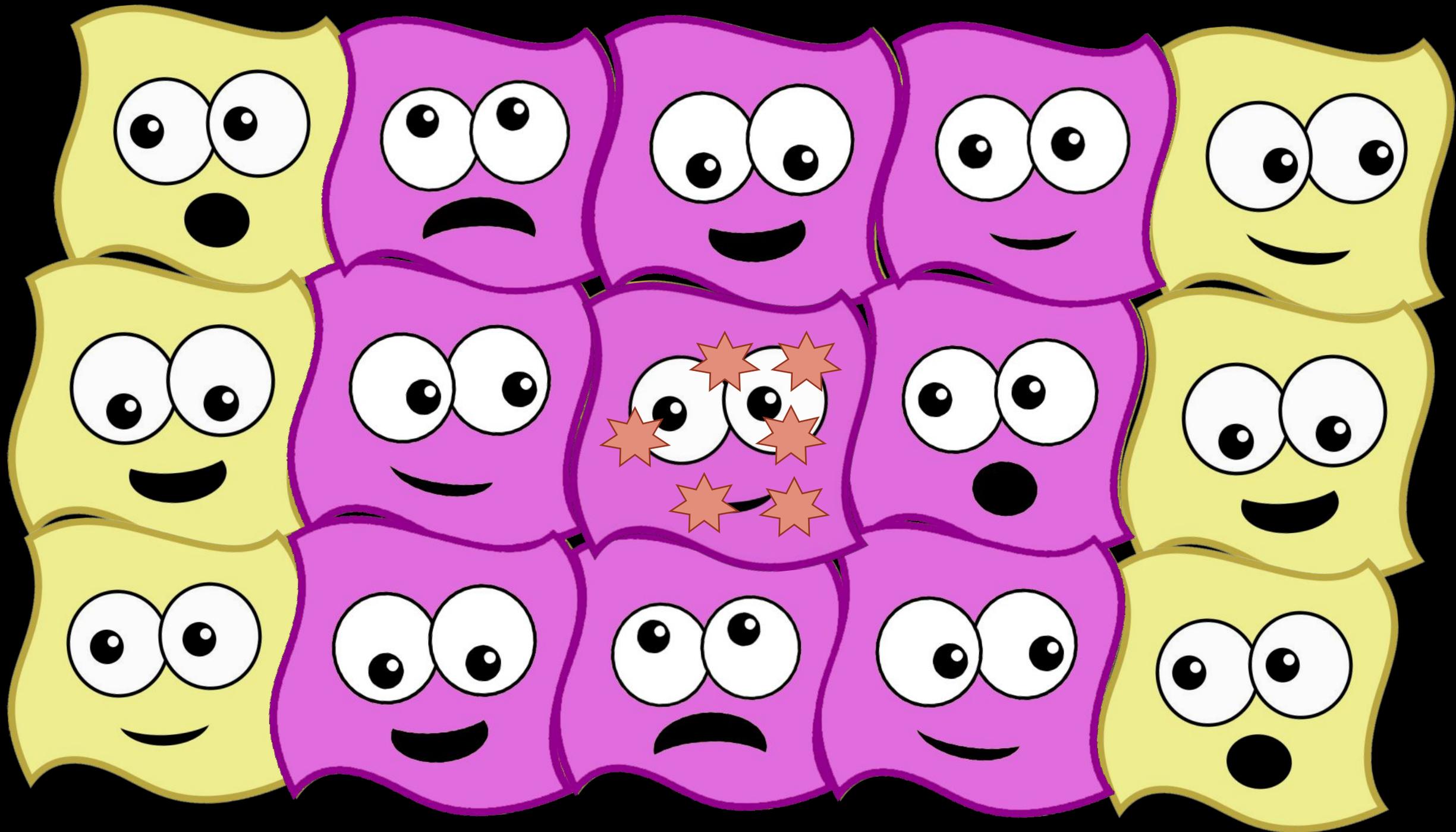
Вкусности

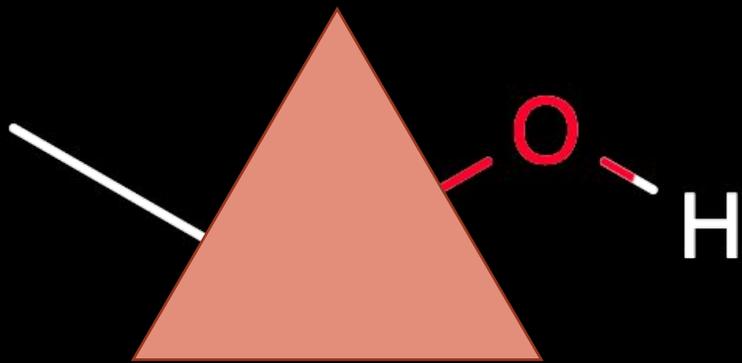


Угрозы там ↑



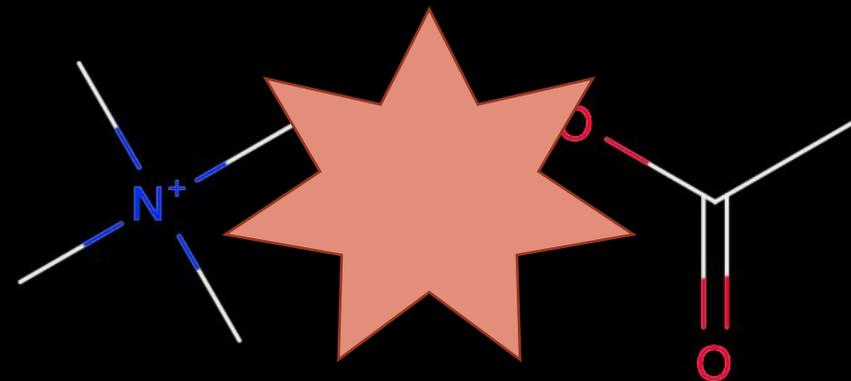
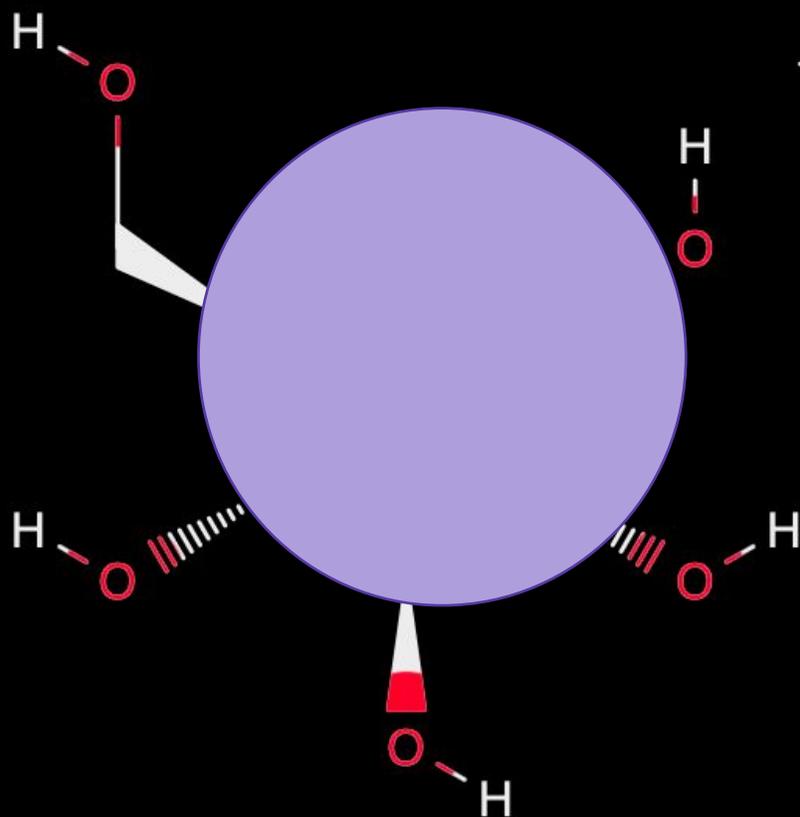
Вкусности там ↓



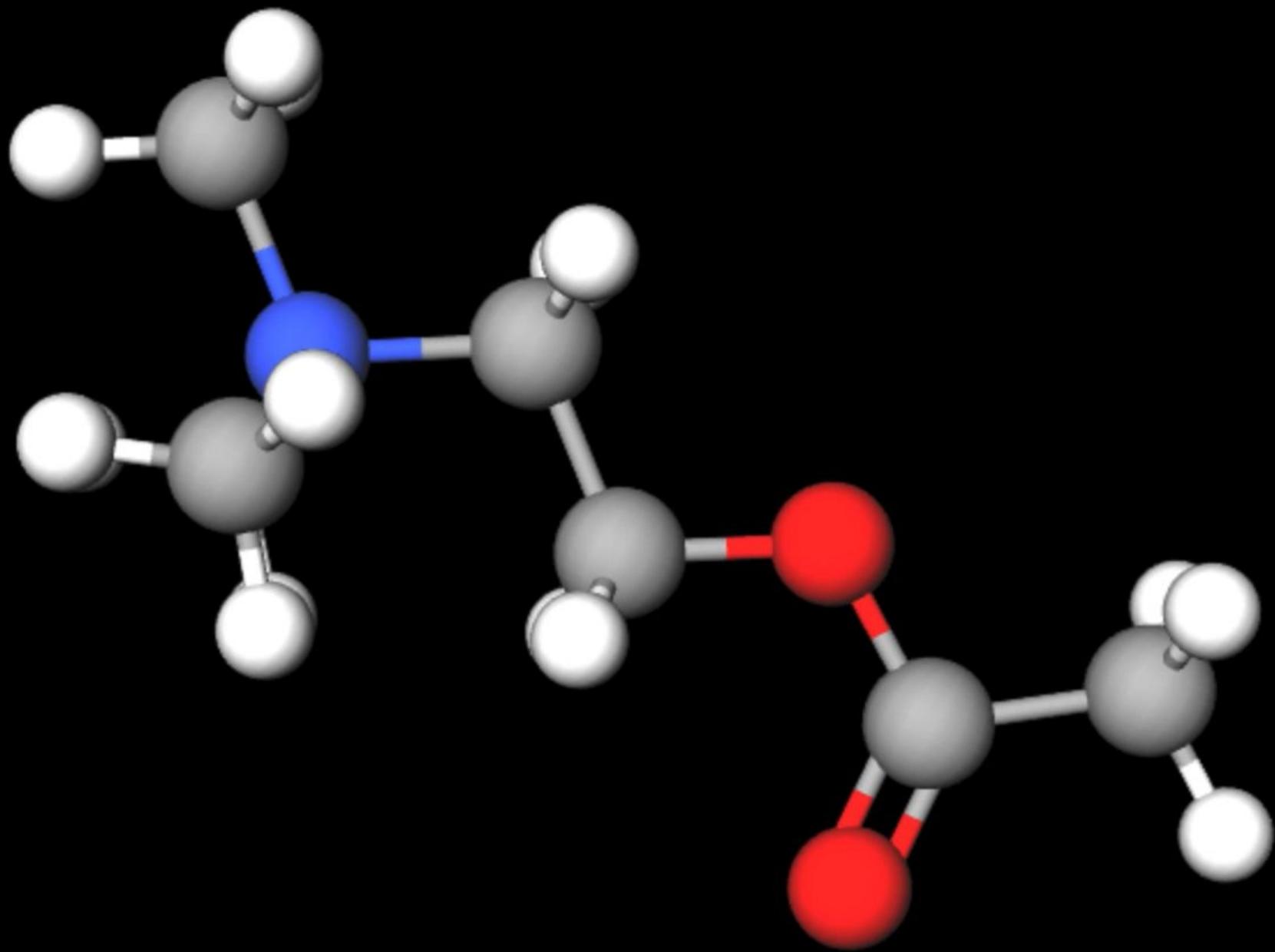


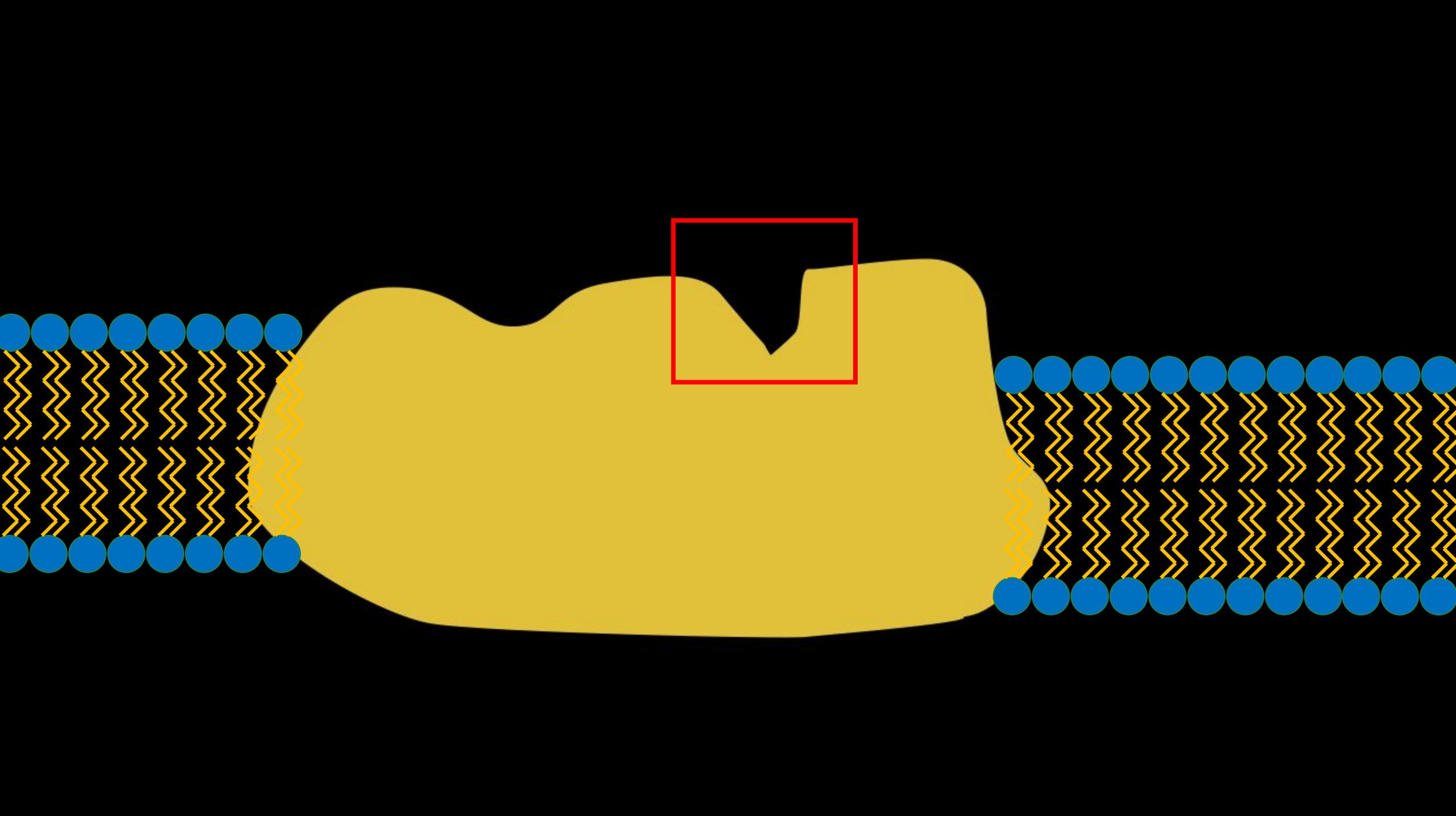
Этиловый
спирт

Глюкоза

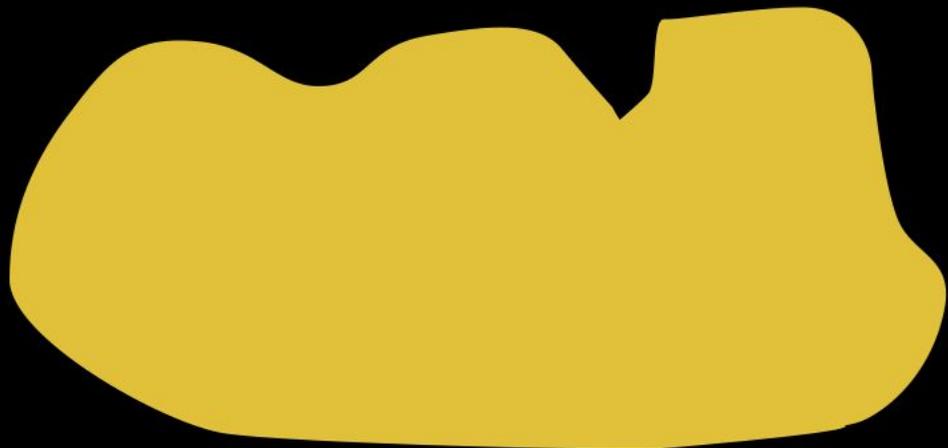


Ацетилхолин





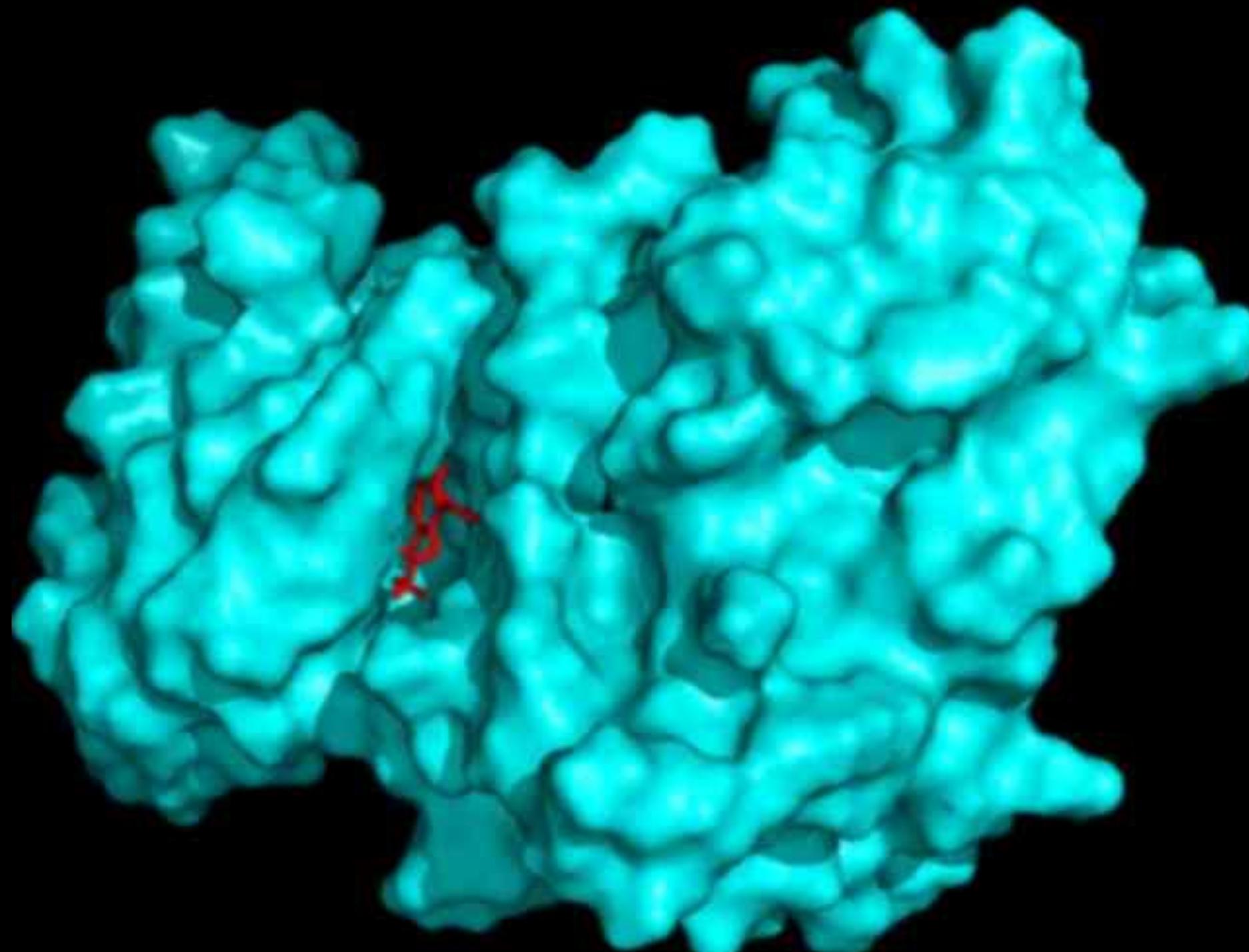


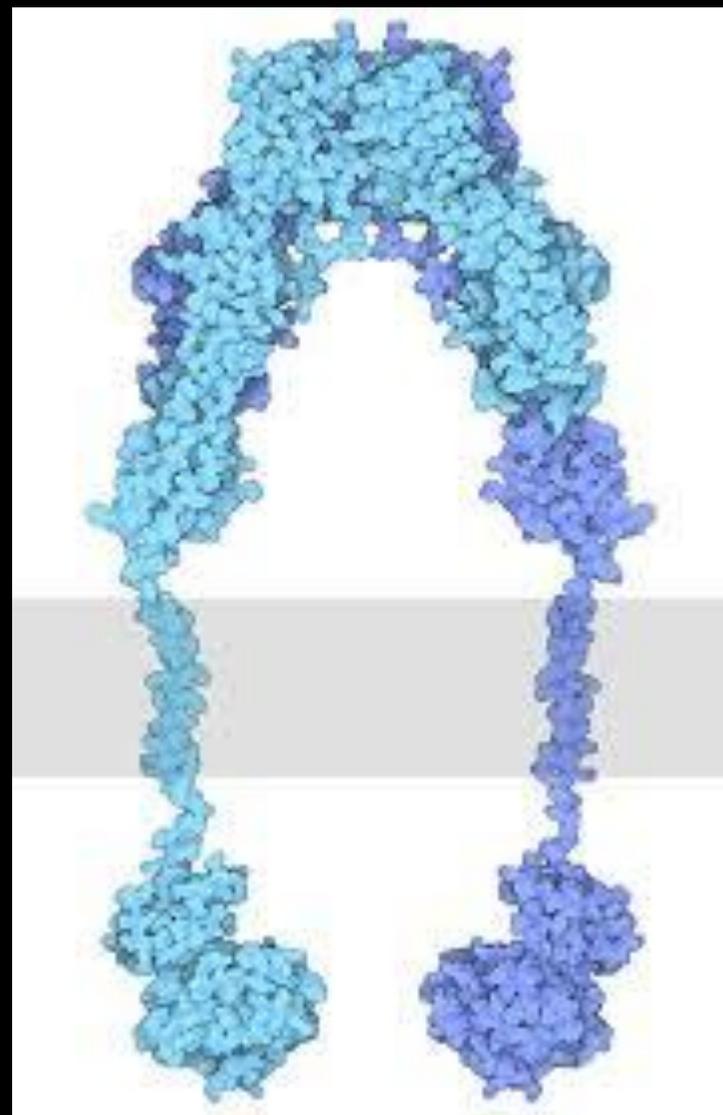
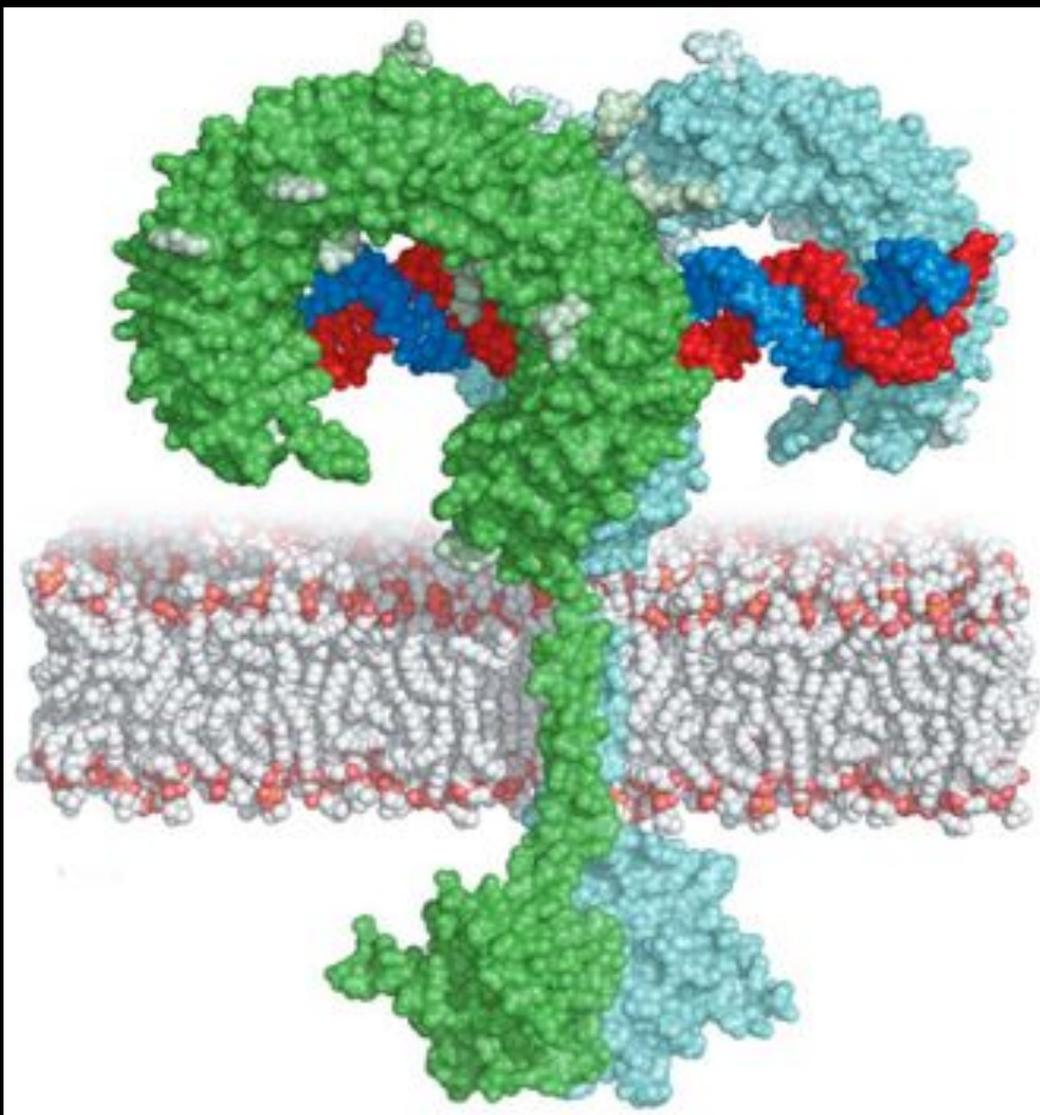


Рецептор

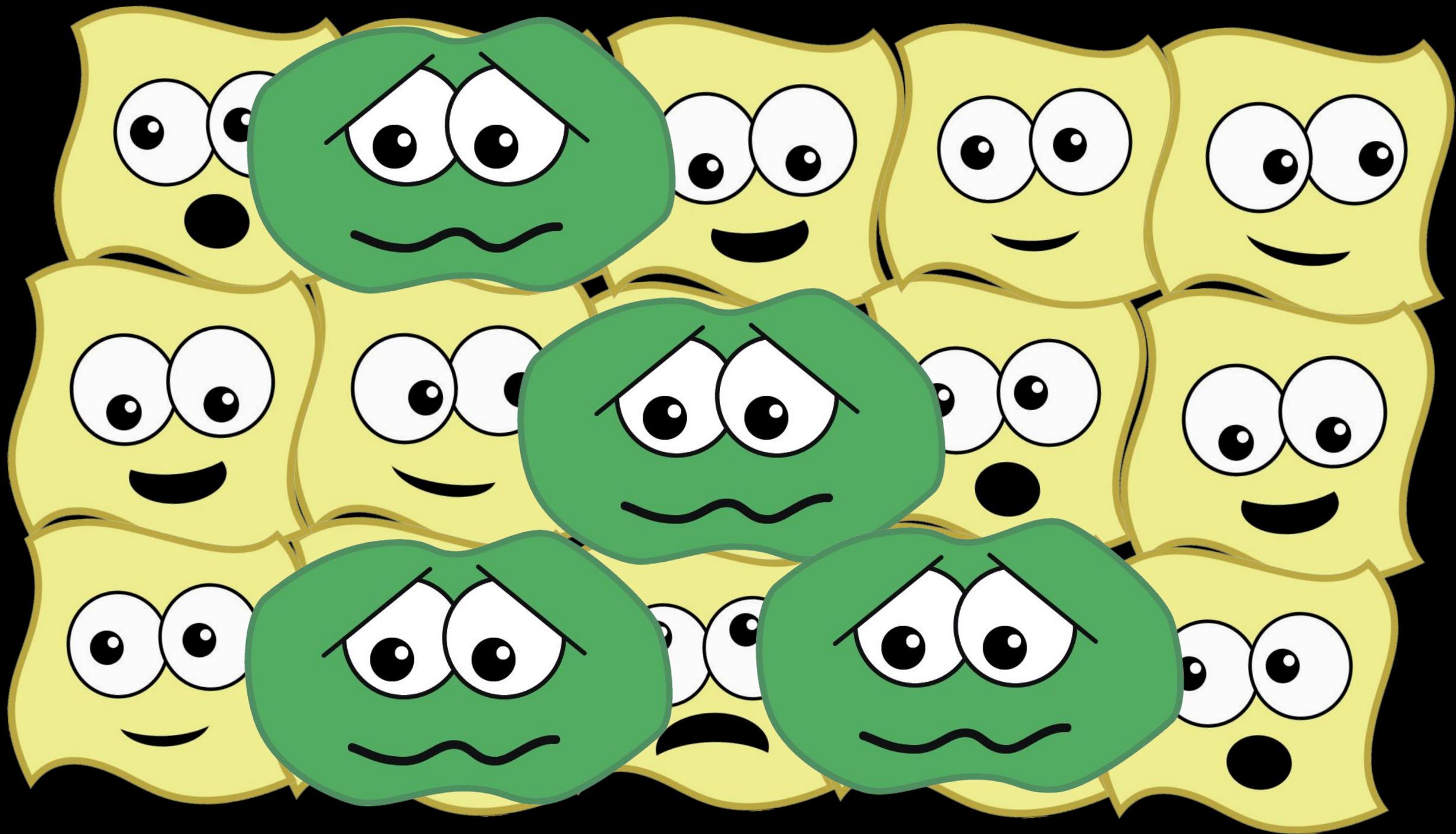


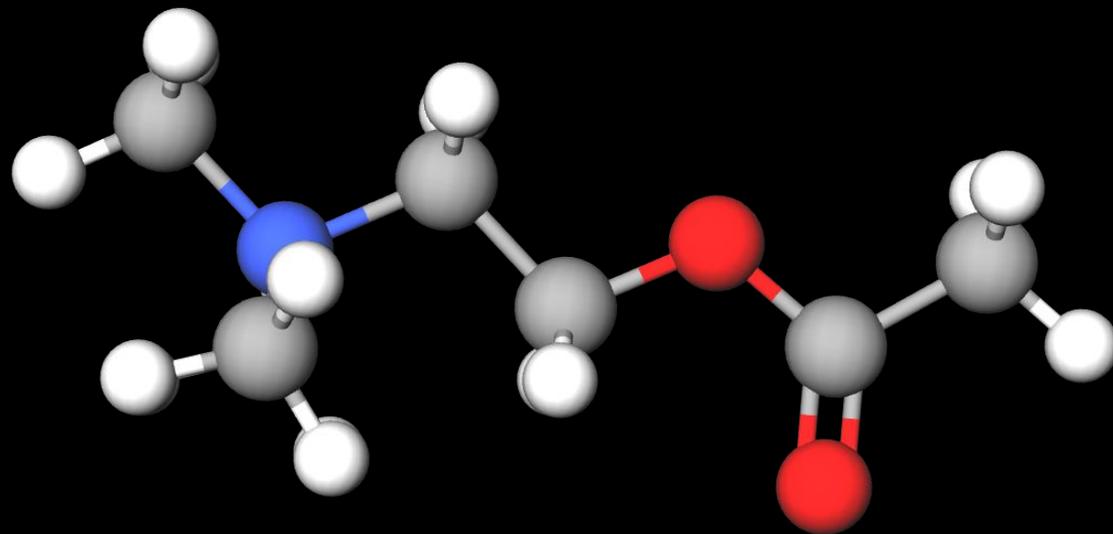
Лиганд



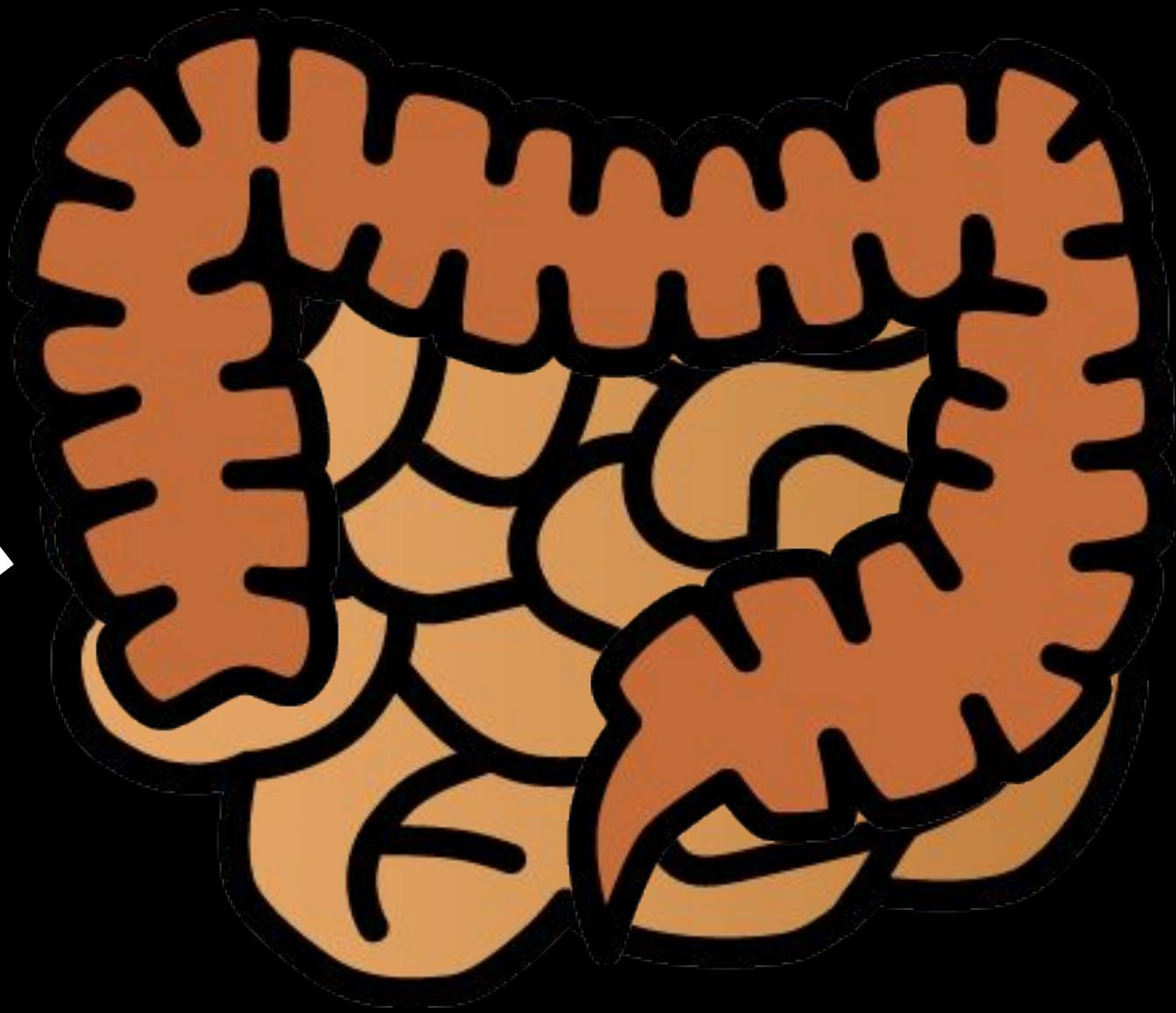
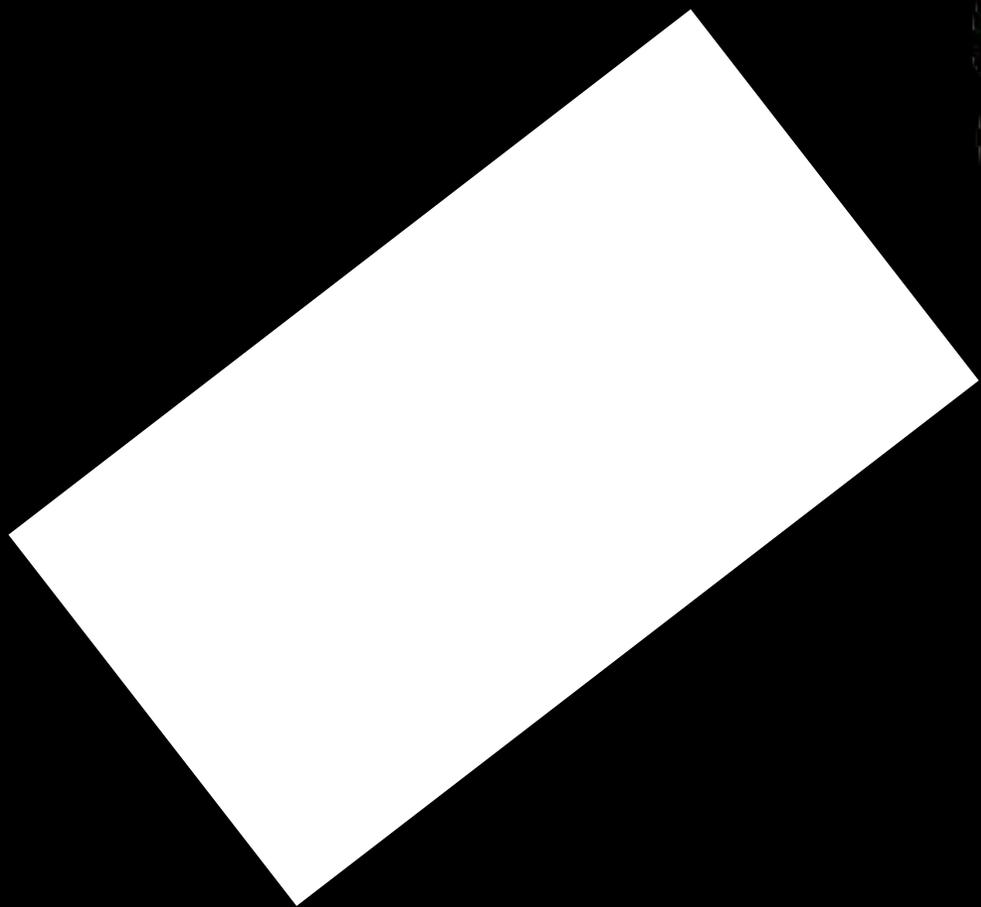


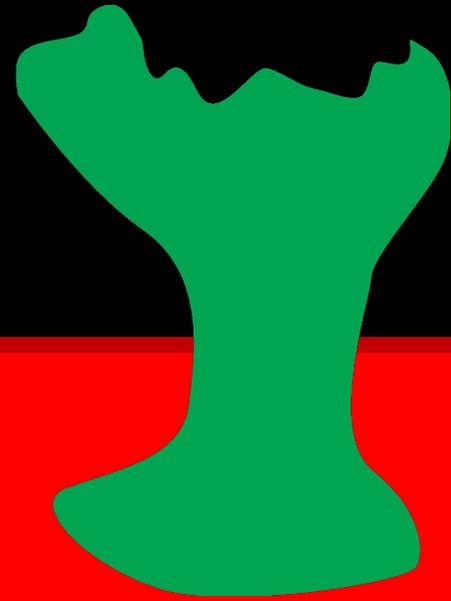
Как все это связано с
лекарствами?





Ацетилхолин







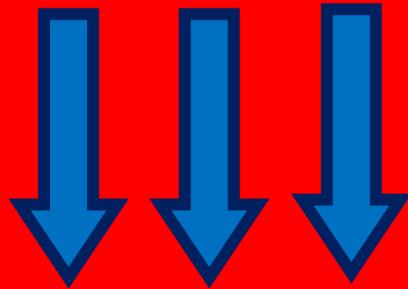


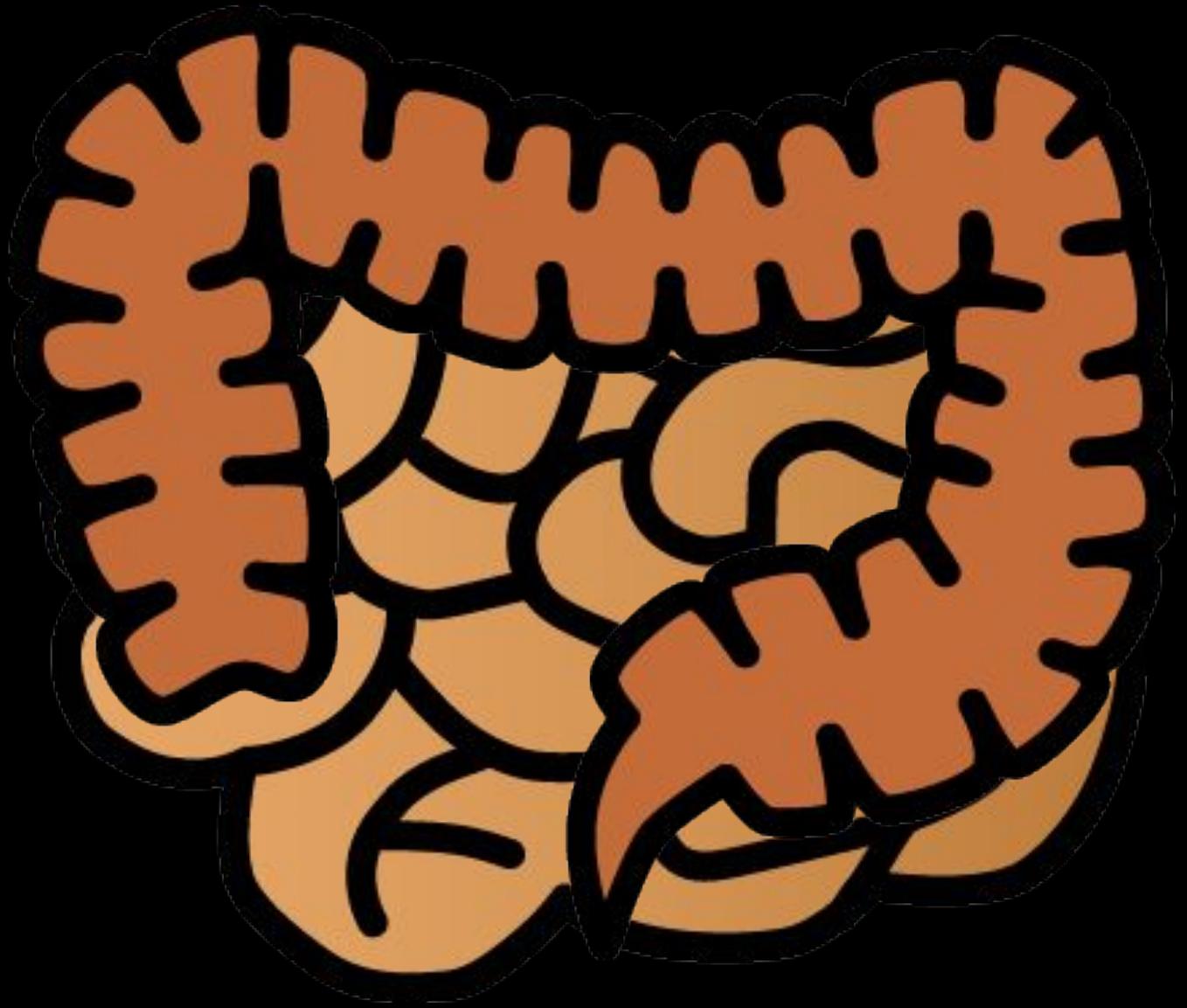
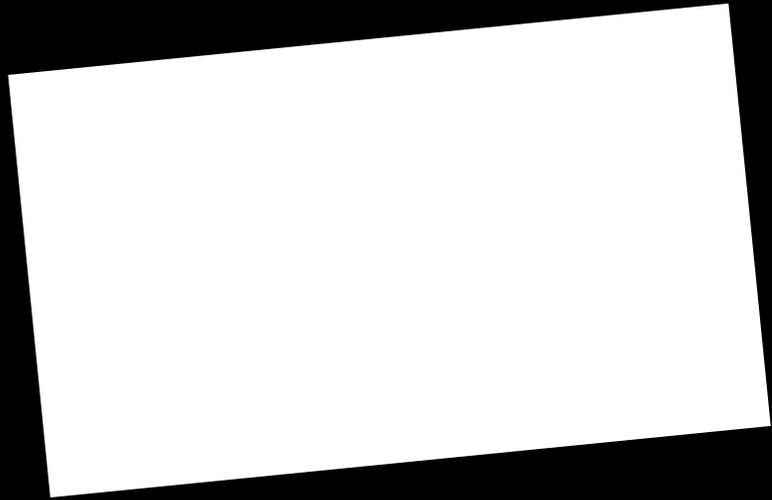
Мускарин

Ацетилхоли

н

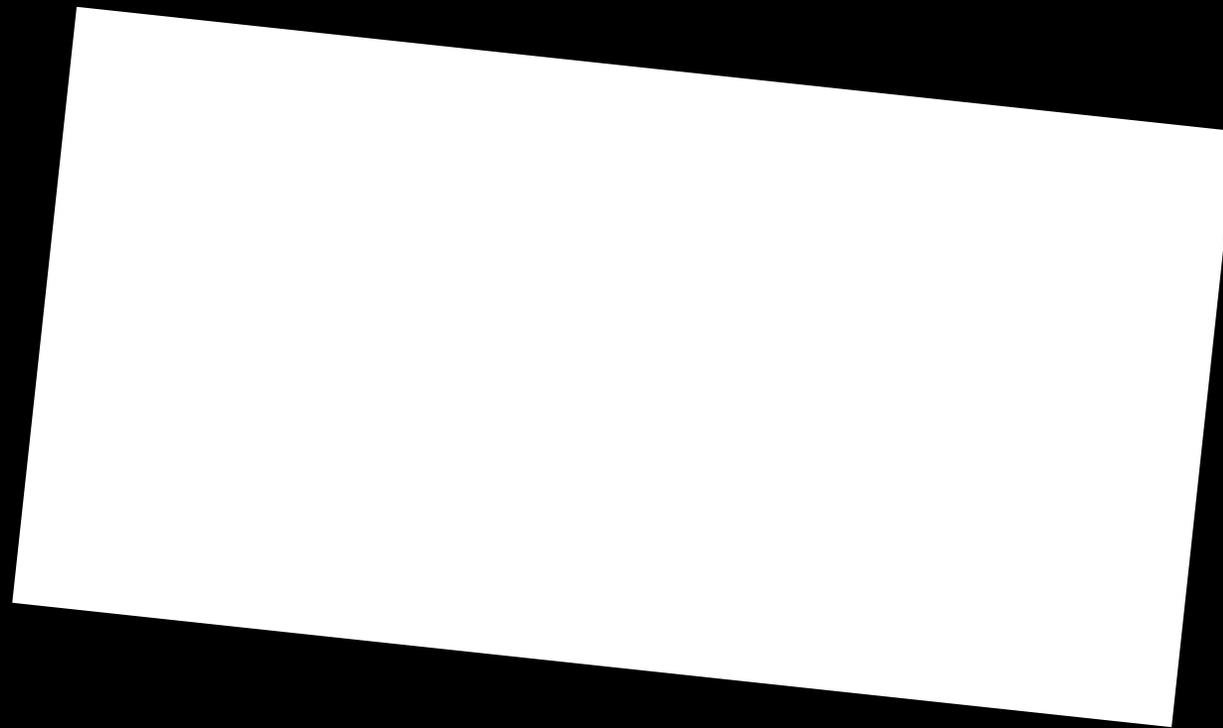
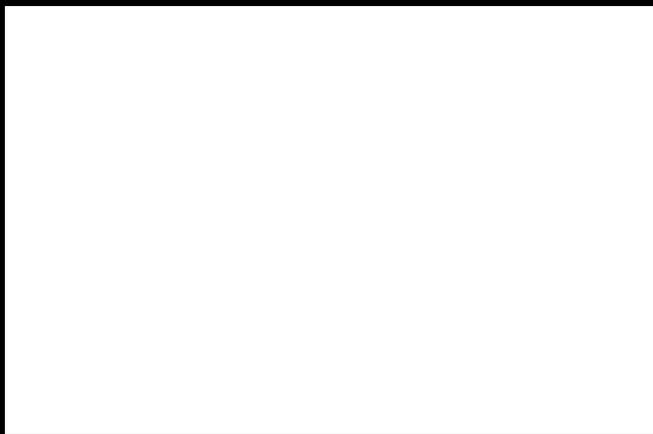




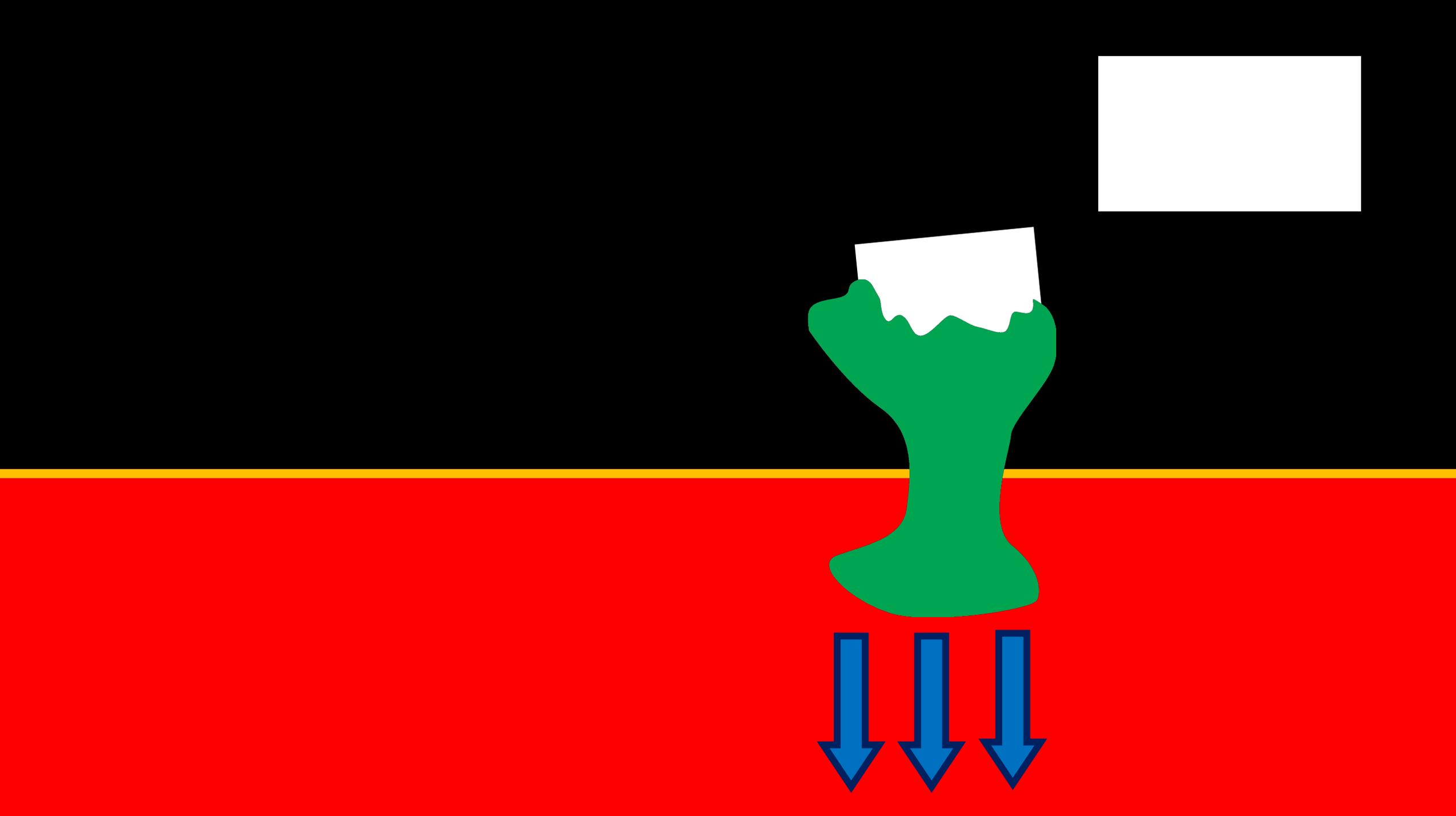


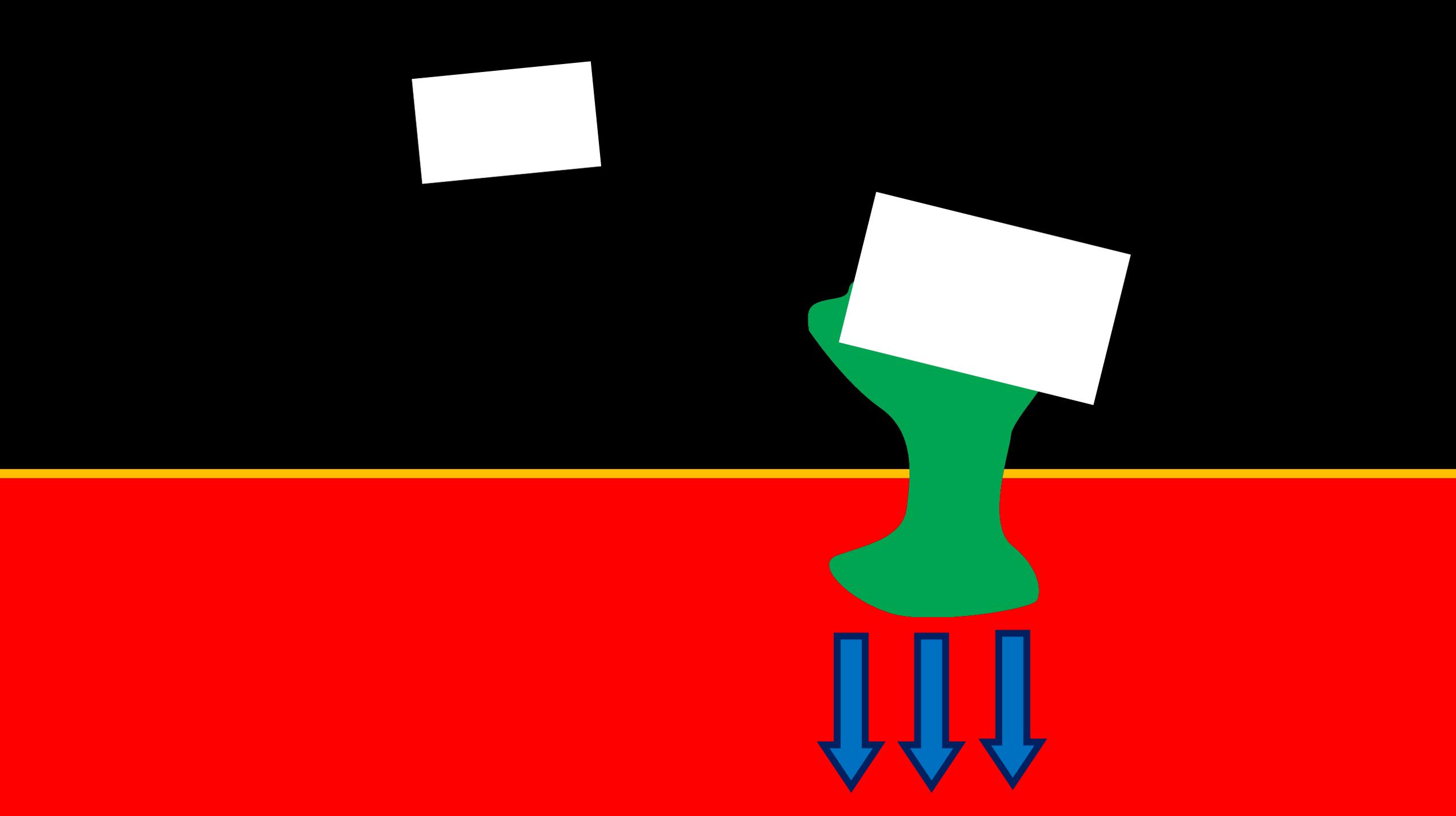


- Эффекты
мушкарина:
1. Диарея
 2. Слезы
 3. Слюнотечение
 4. Рвота
 5. Отек легких
 6. Брадикардия



Атропин



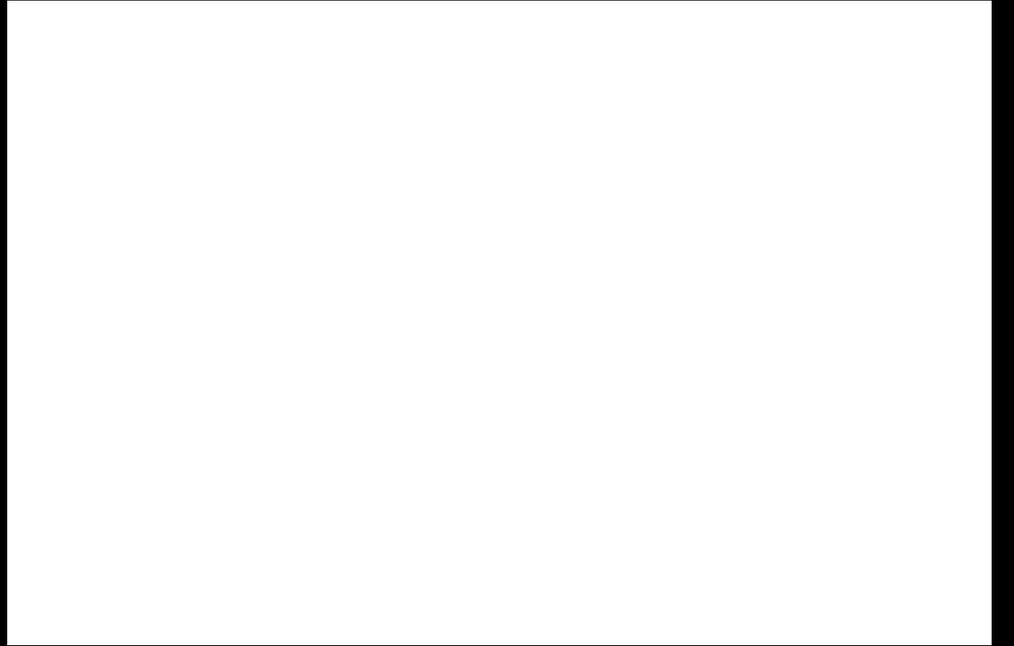




Эффекты
атропина:

1. Запор
2. Сухой глаз
3. Тахикардия

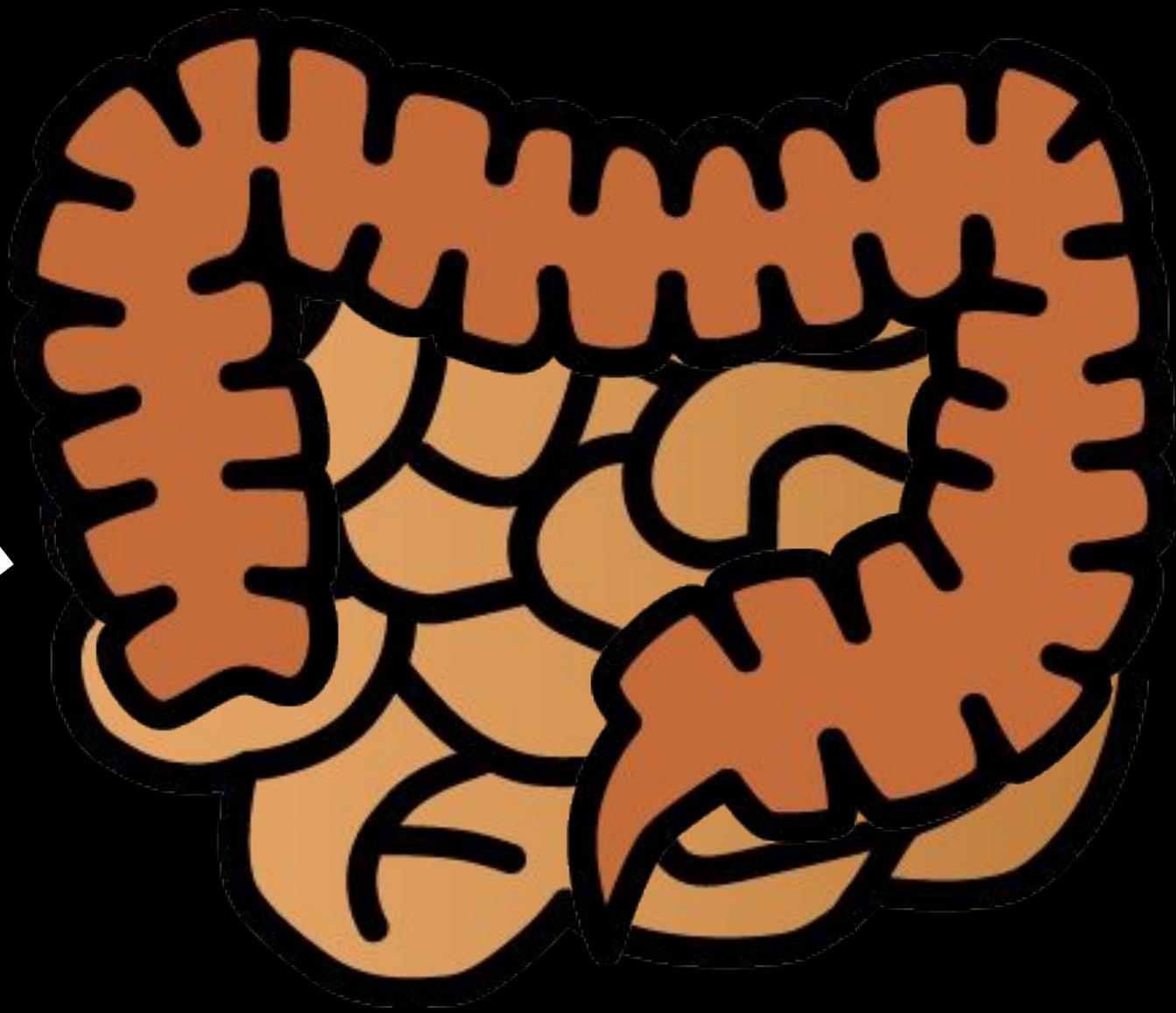
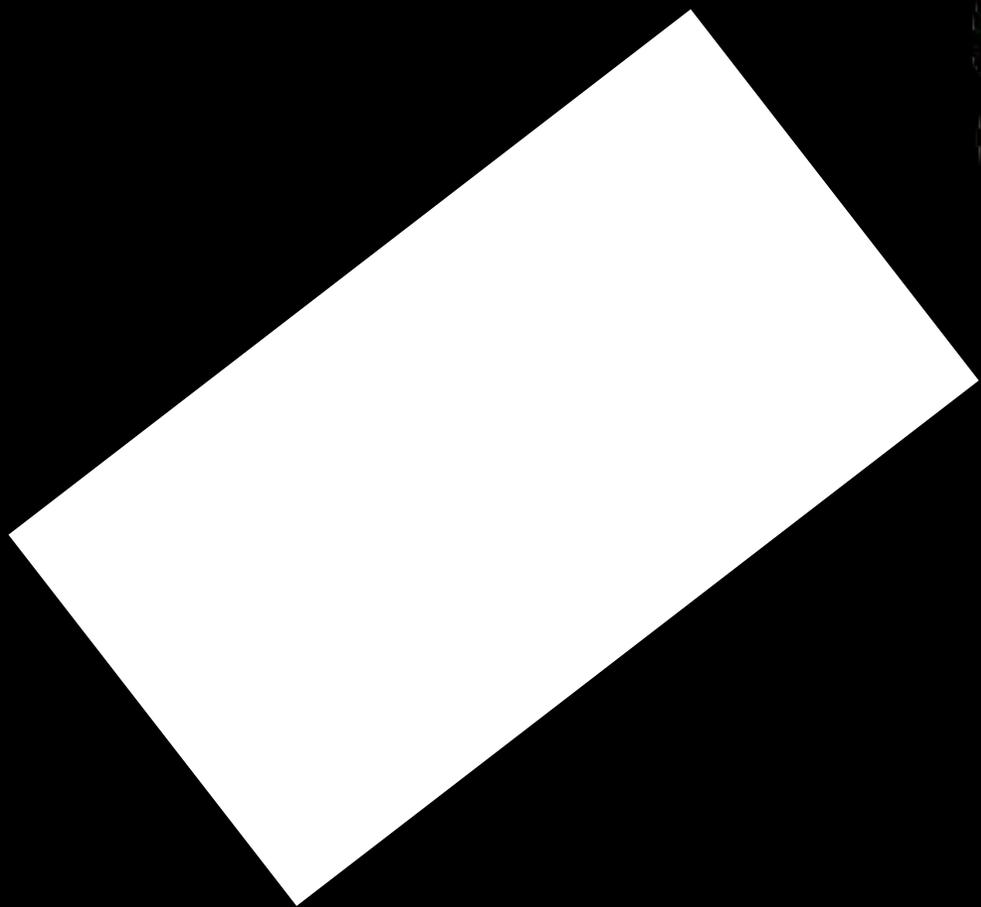


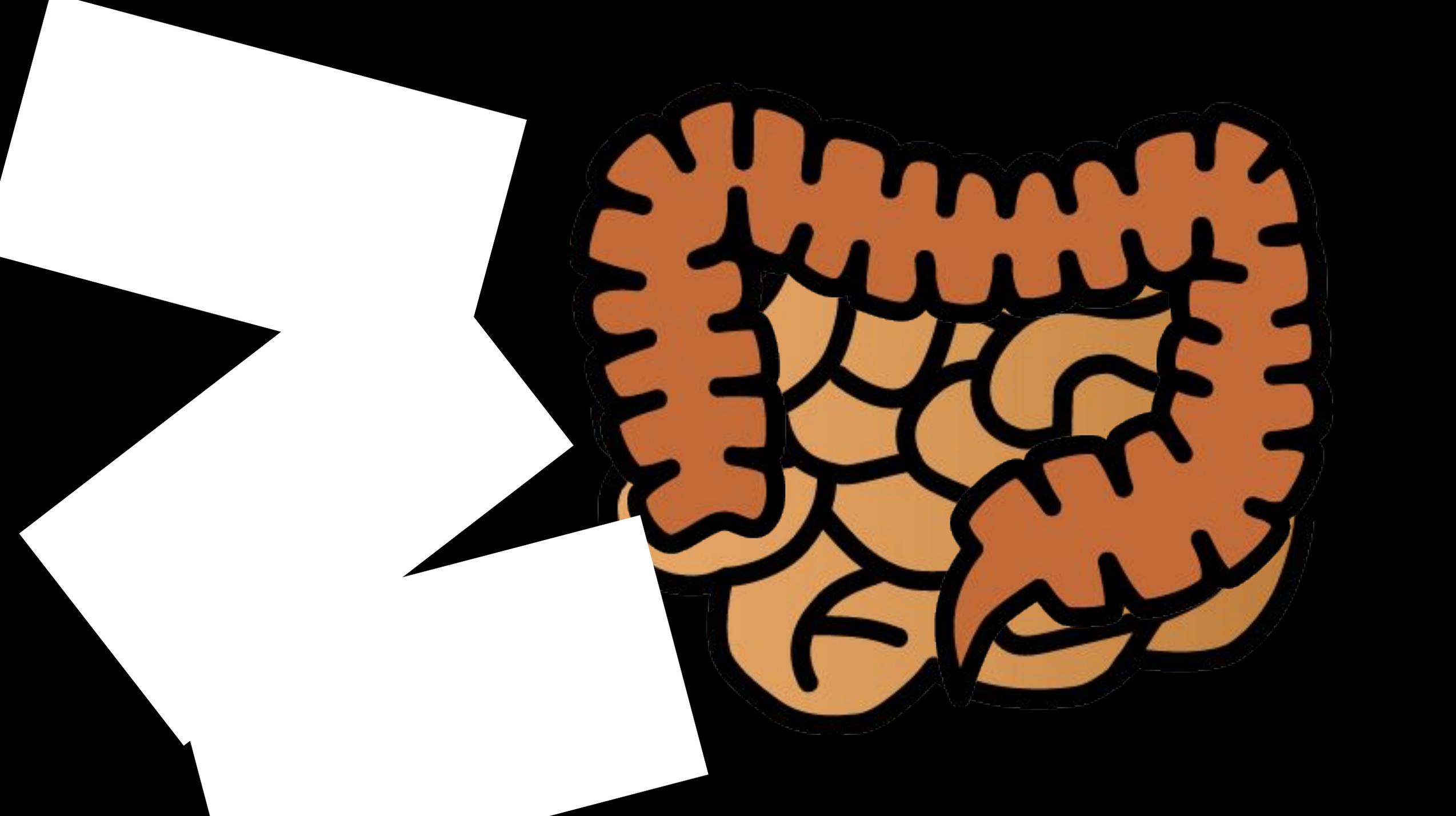


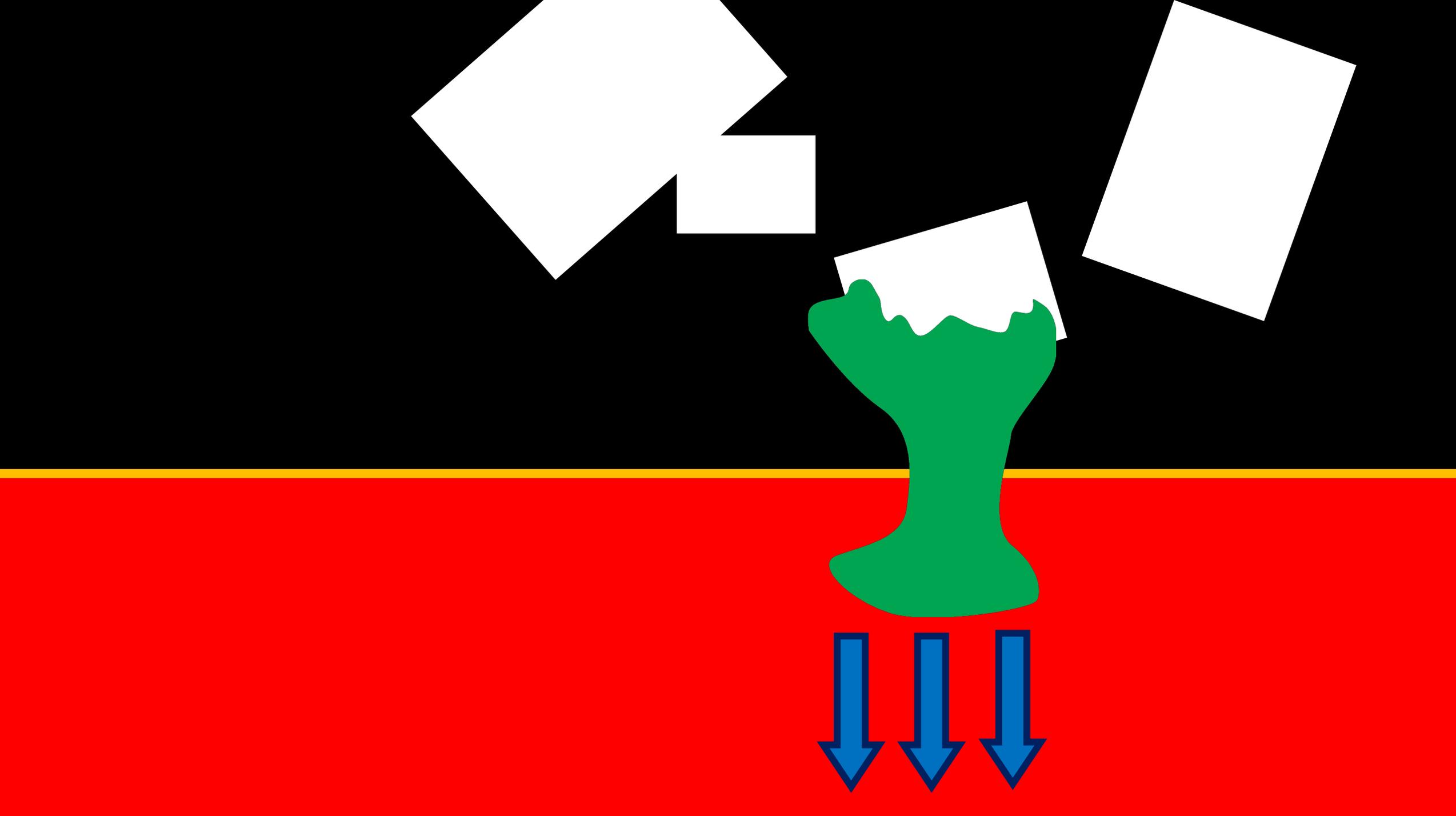
Антагонист

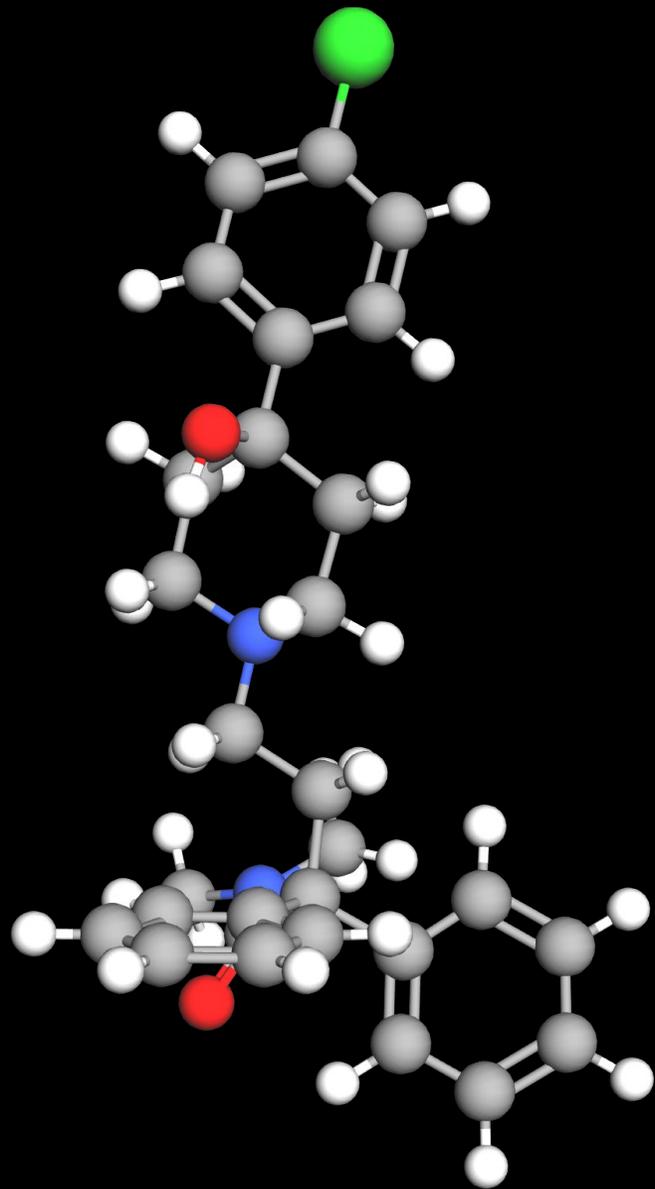
Агонист

Ну а если не отравления?

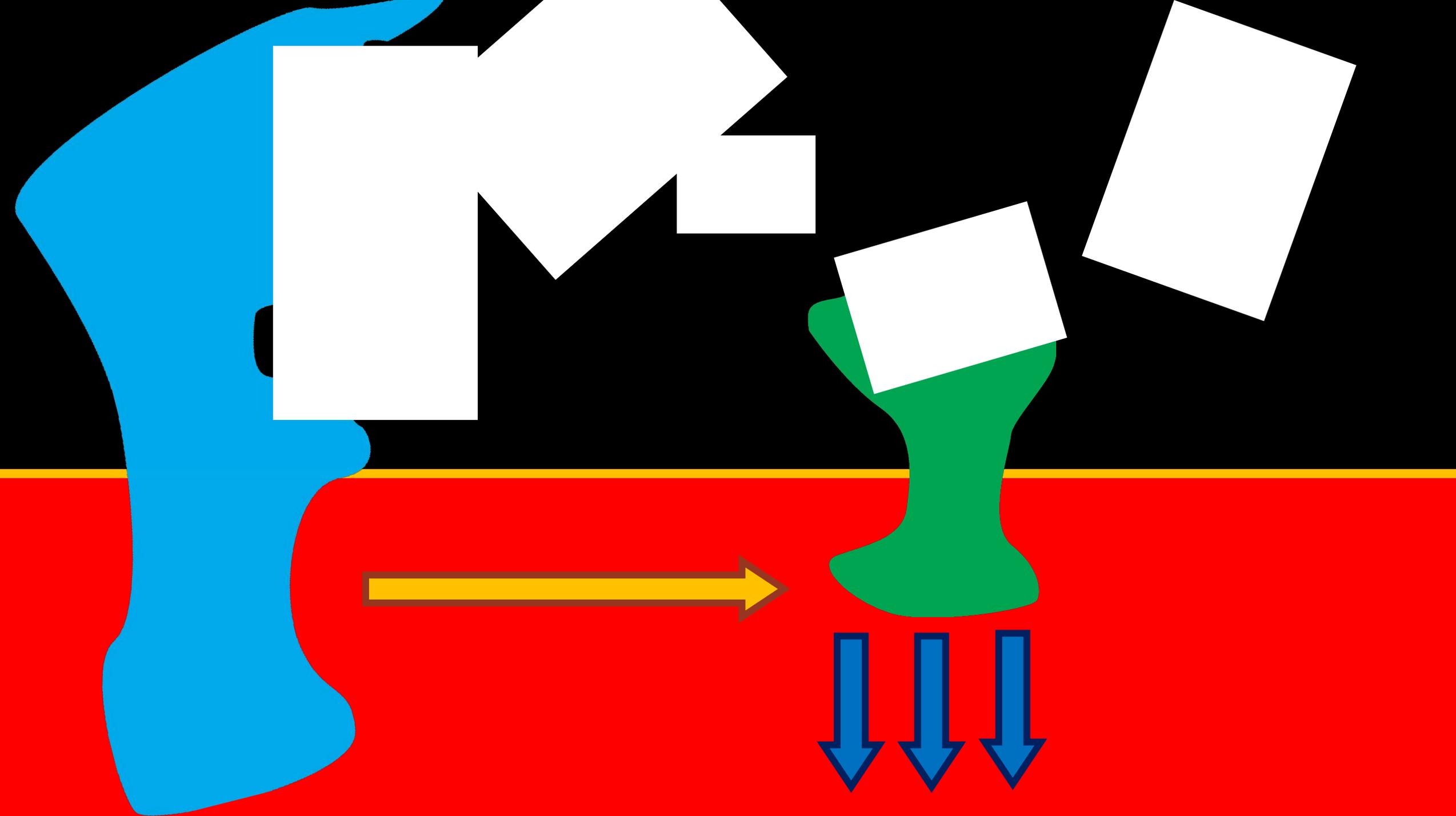








Лоперамид
(имодиум)

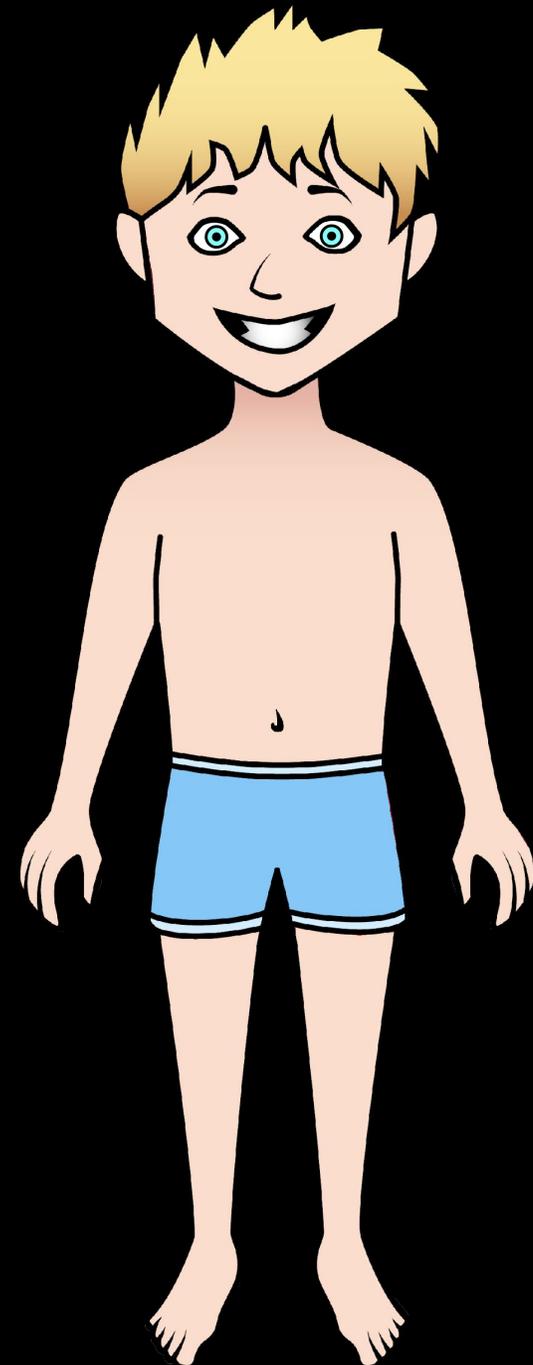


Как же ищут новые
лекарства?

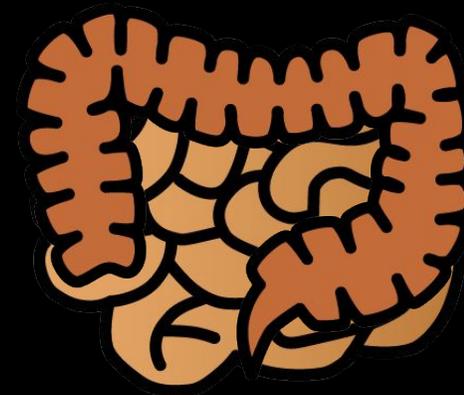
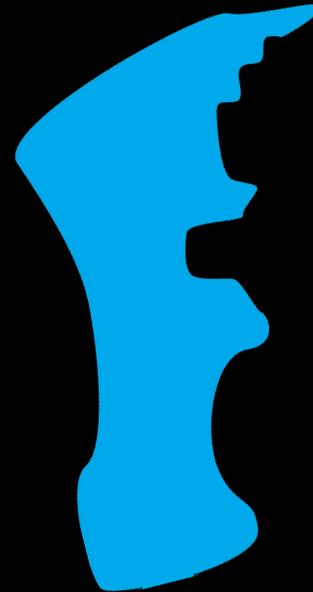




Морфин

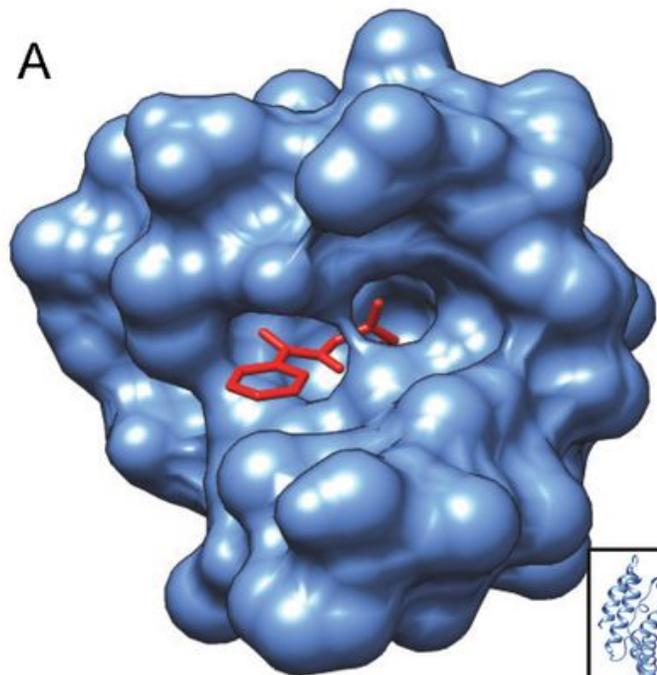


Морфин

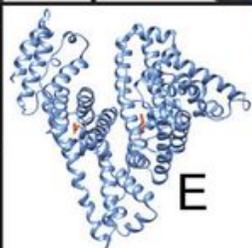
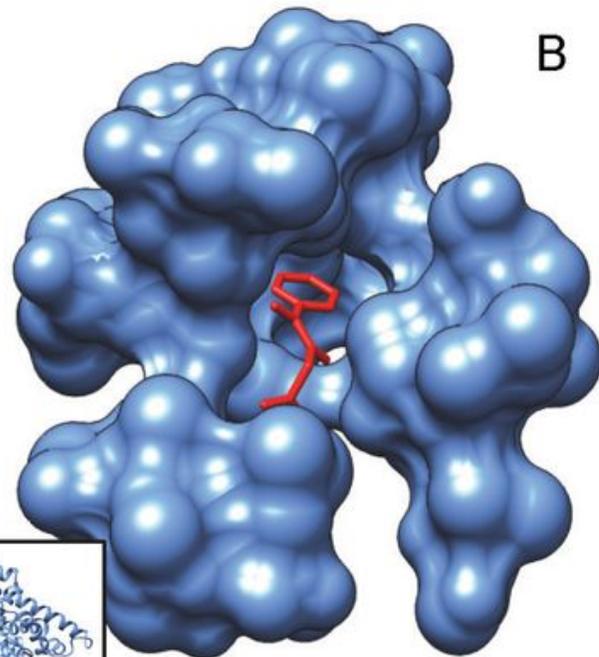




A

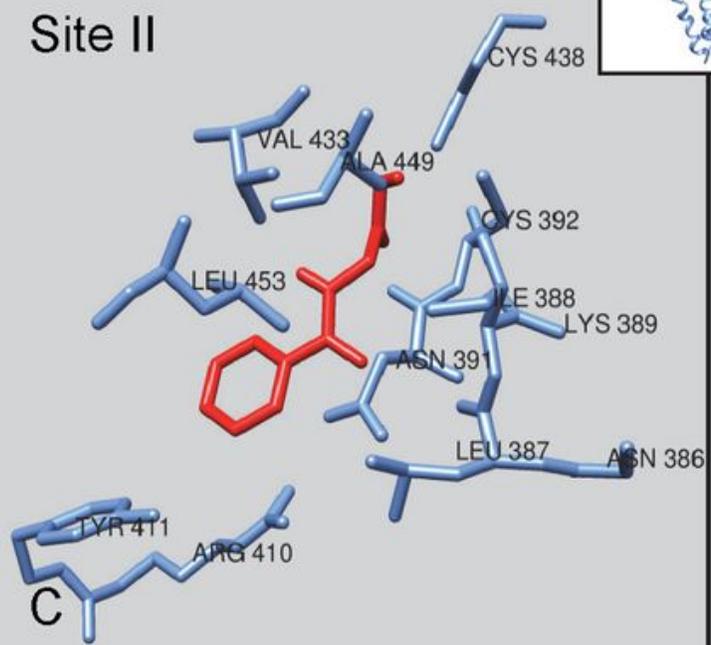


B



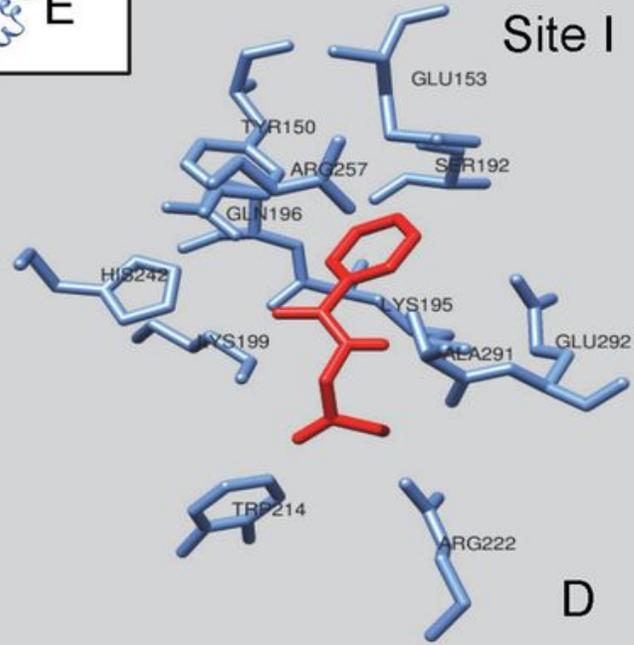
E

Site II

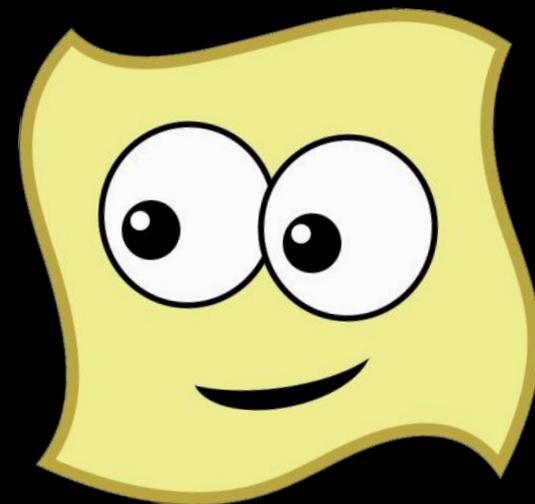
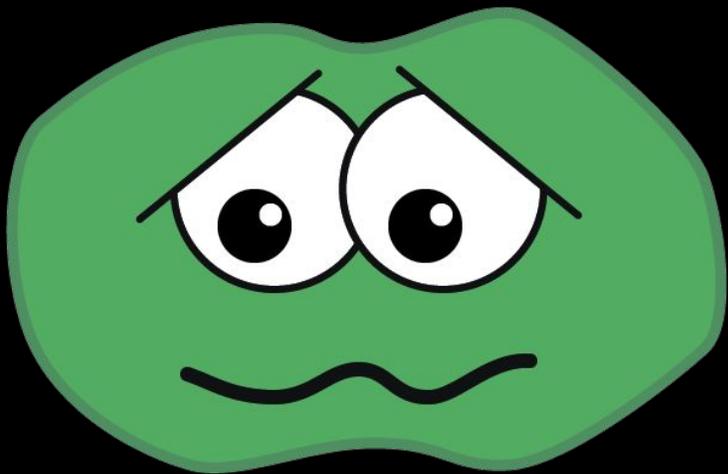


C

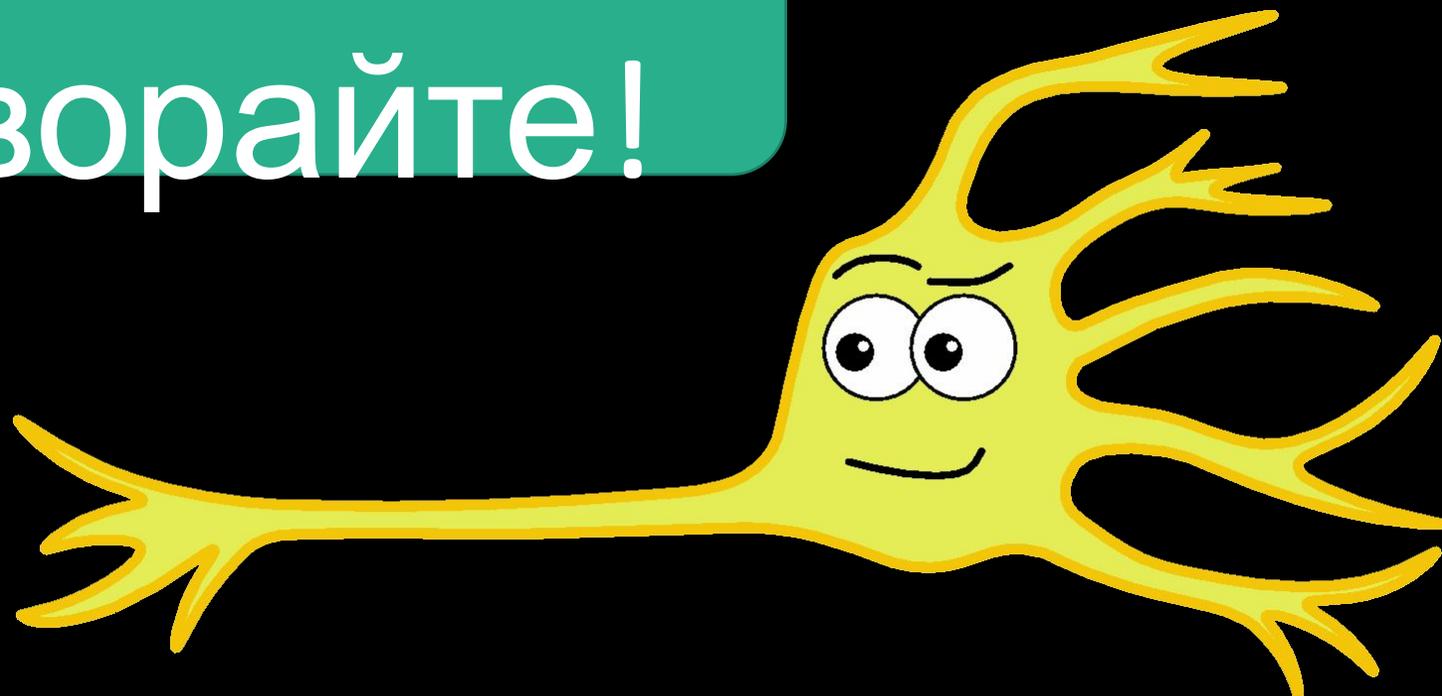
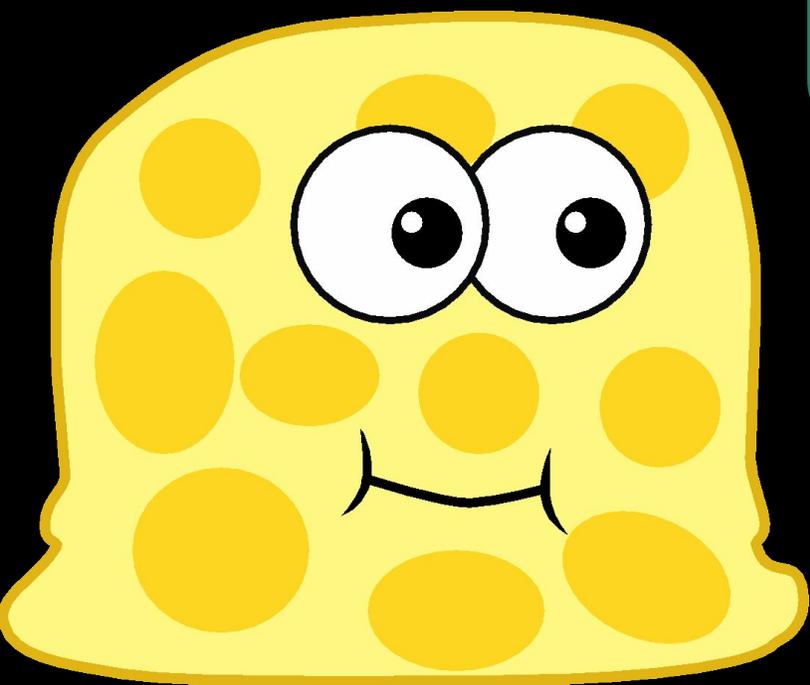
Site I



D



Не
хворайте!





- Агонисты и антагонисты рецепторов
- Аллостерические регуляторы
- Ингибиторы ферментов
- Кофакторы ферментов
- Сорбенты
- Осмотические регуляторы
- Антибиотики и противовирусные
- И многое другое...