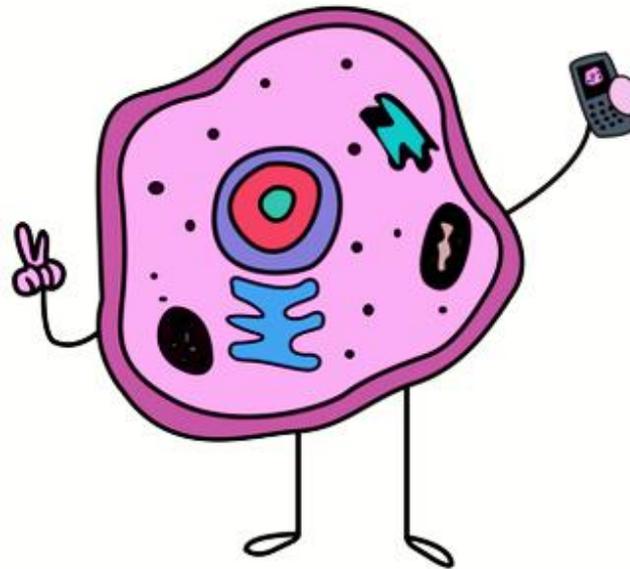


Как клетки общаются?

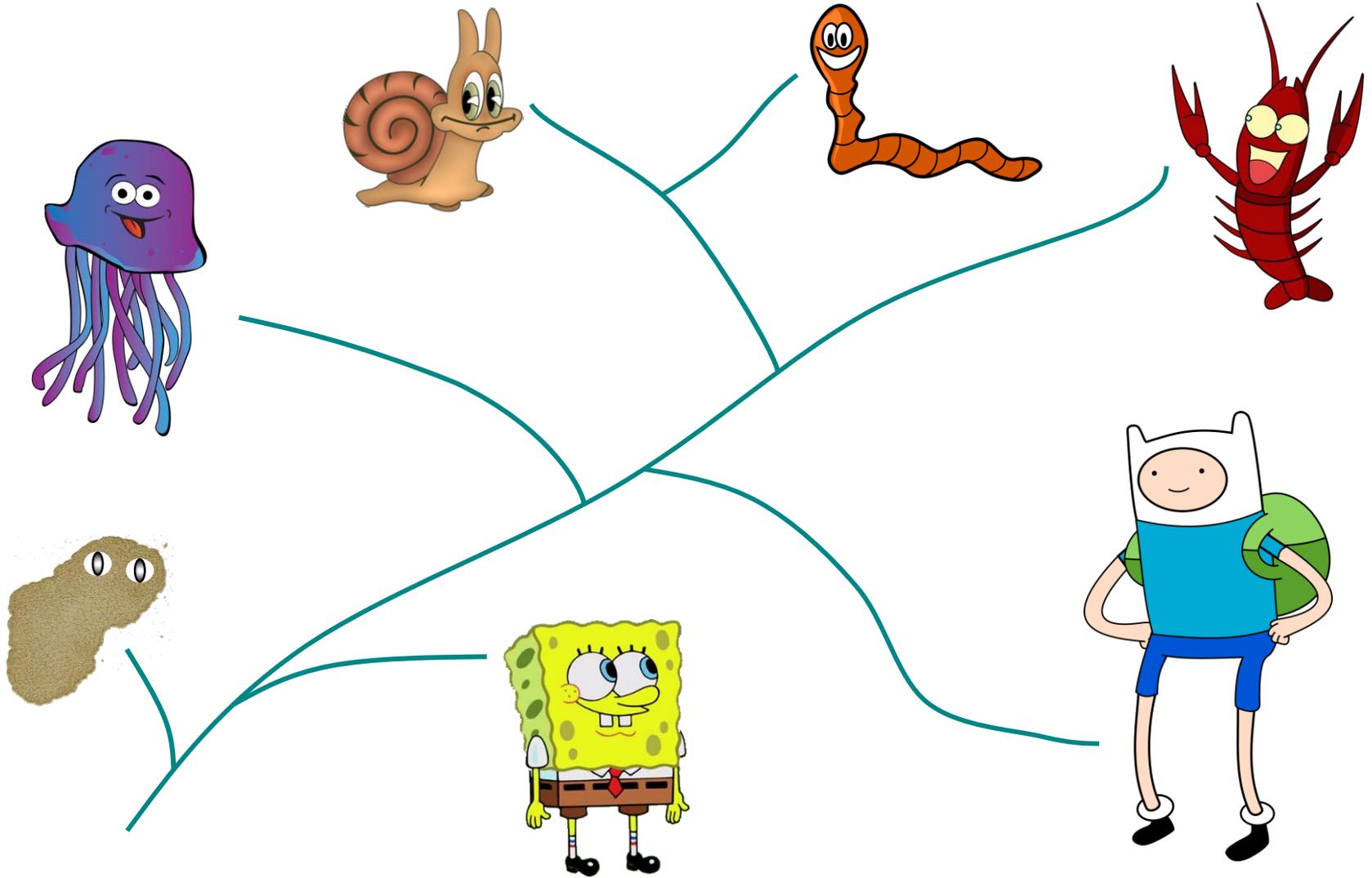


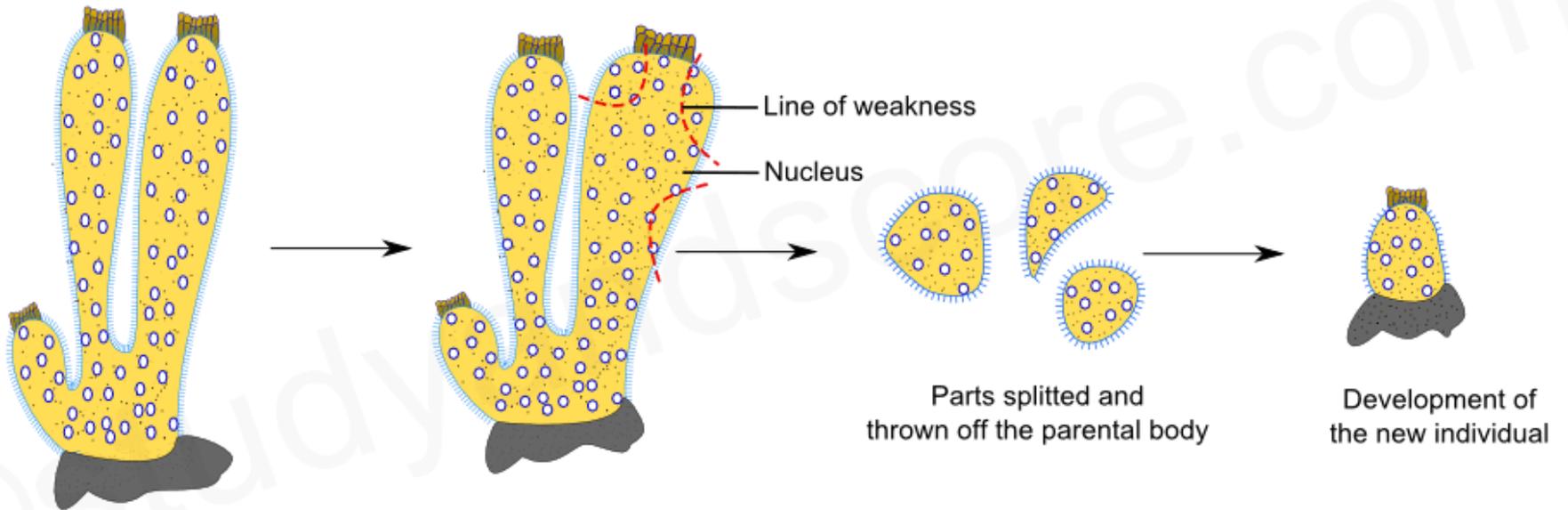
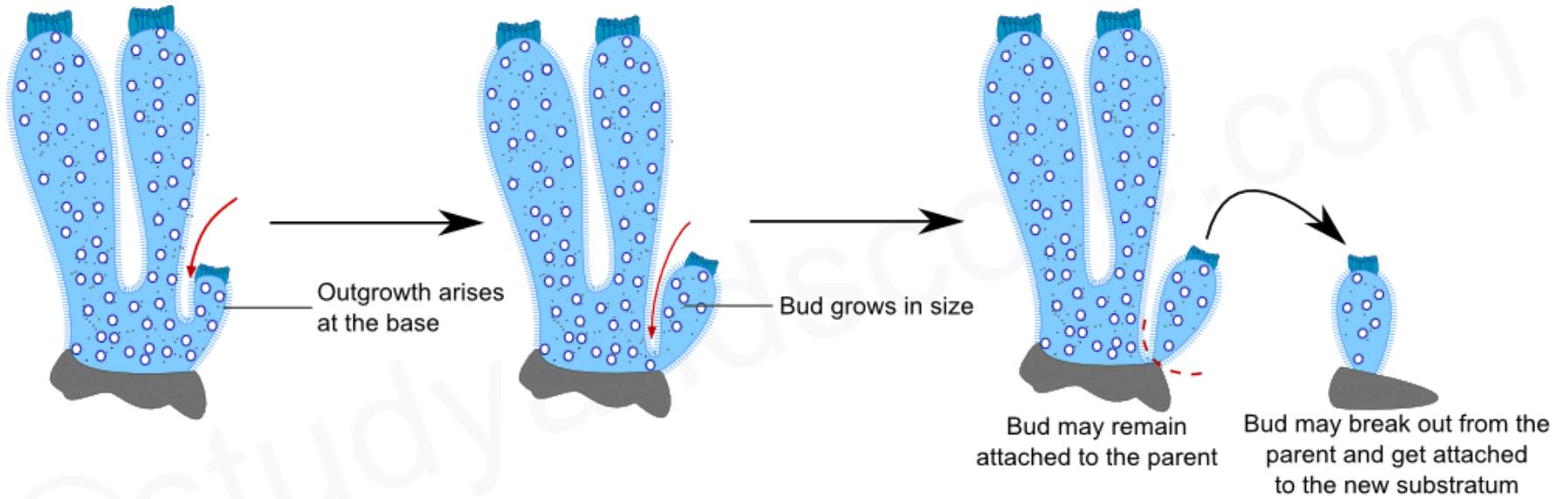


ЗАЧЕМ КЛЕТКАМ ОБЩАТЬСЯ?

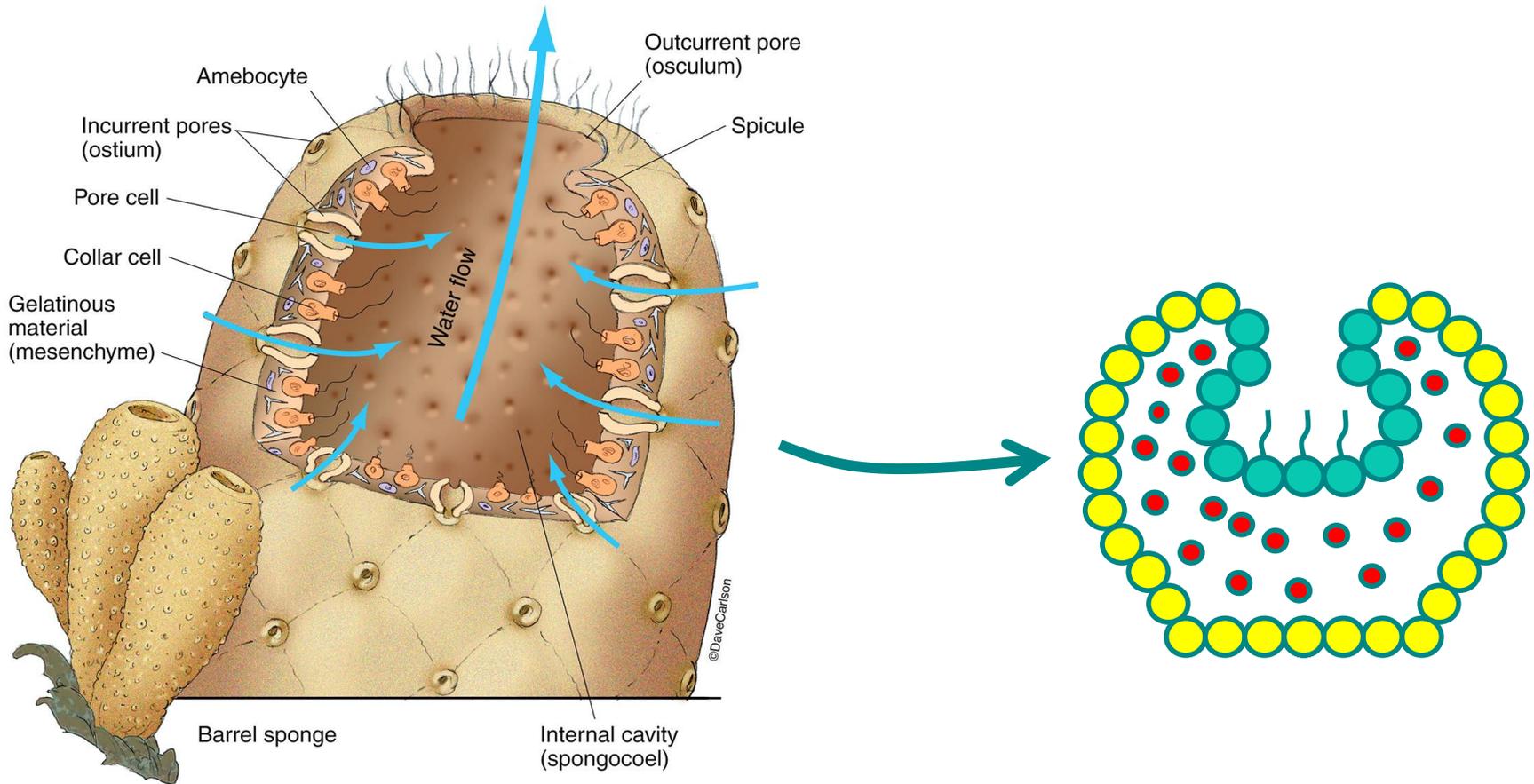
Губки



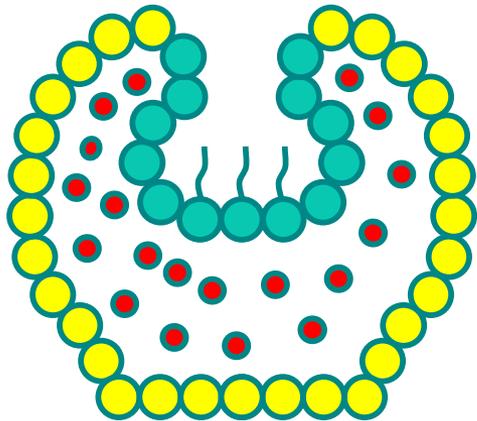




Как устроены губки?



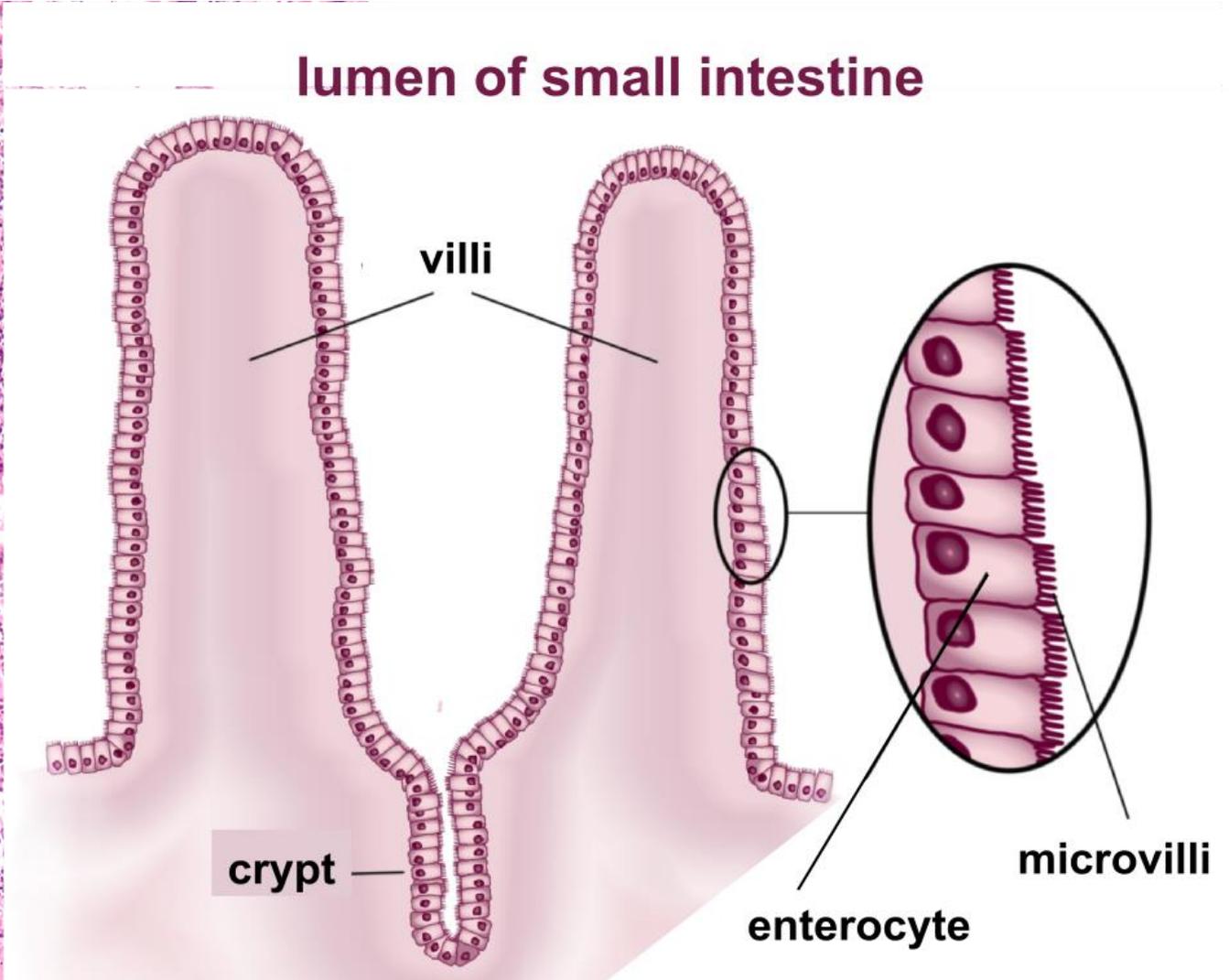
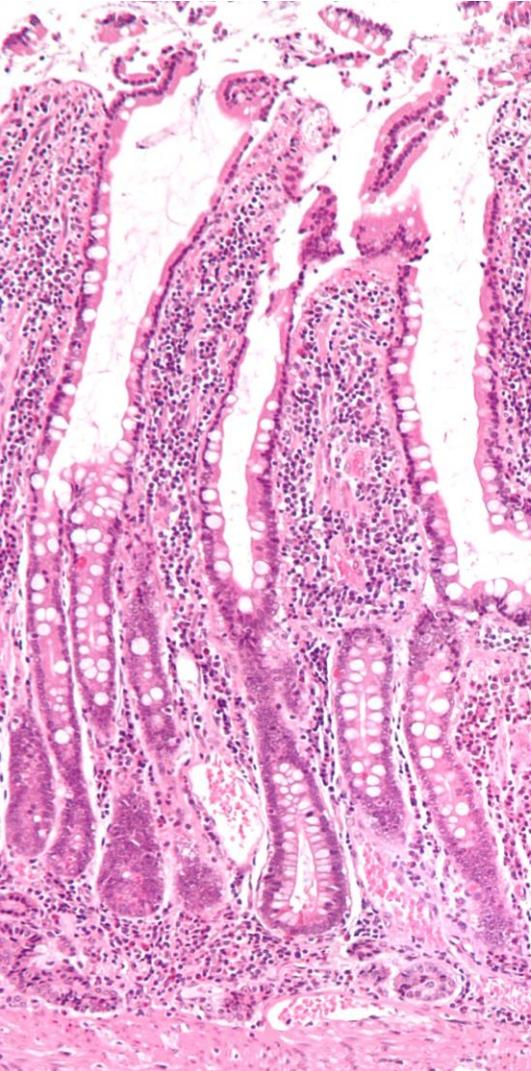
Человек устроен
так же!

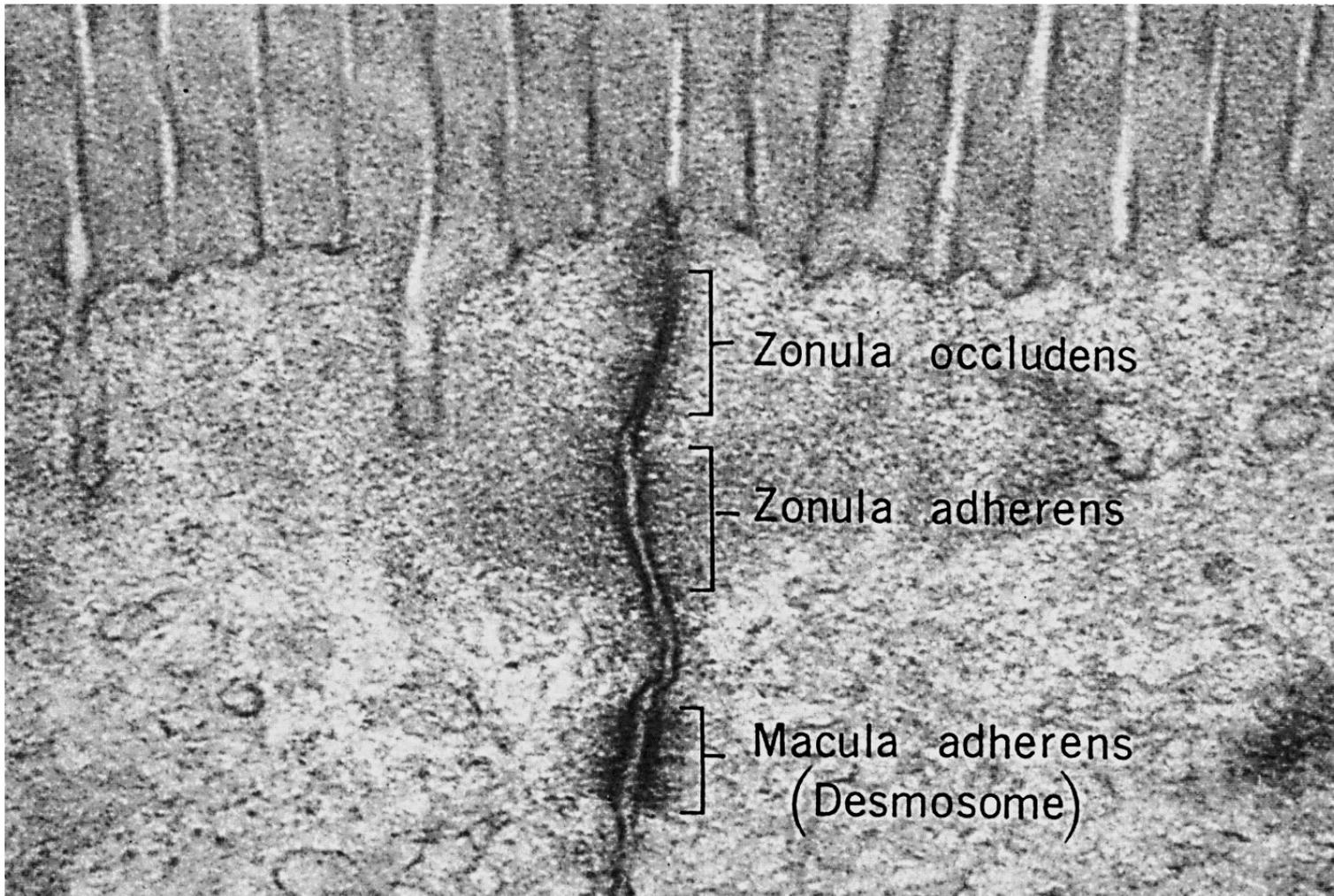




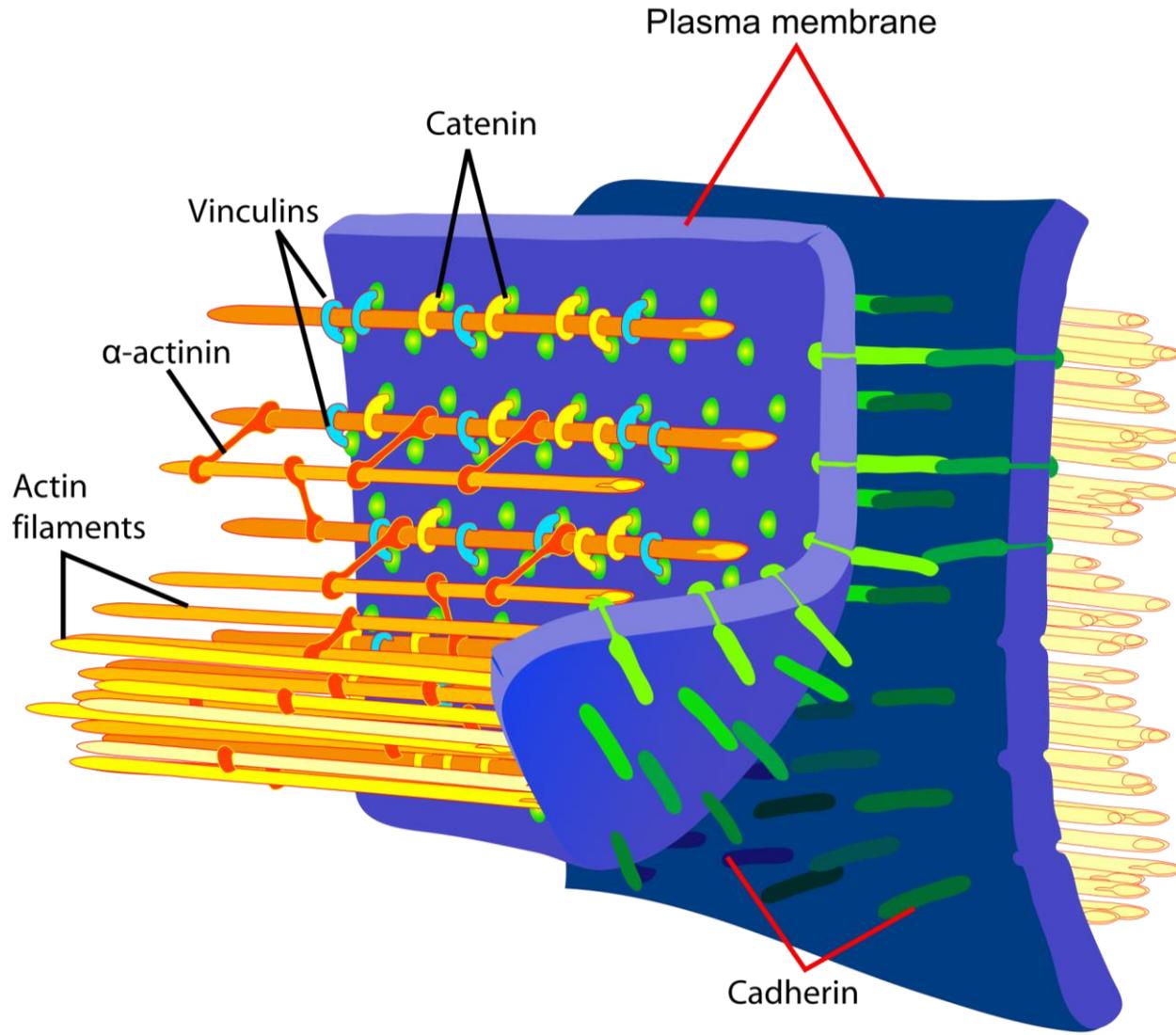
Клетки могут крепко держаться за руки

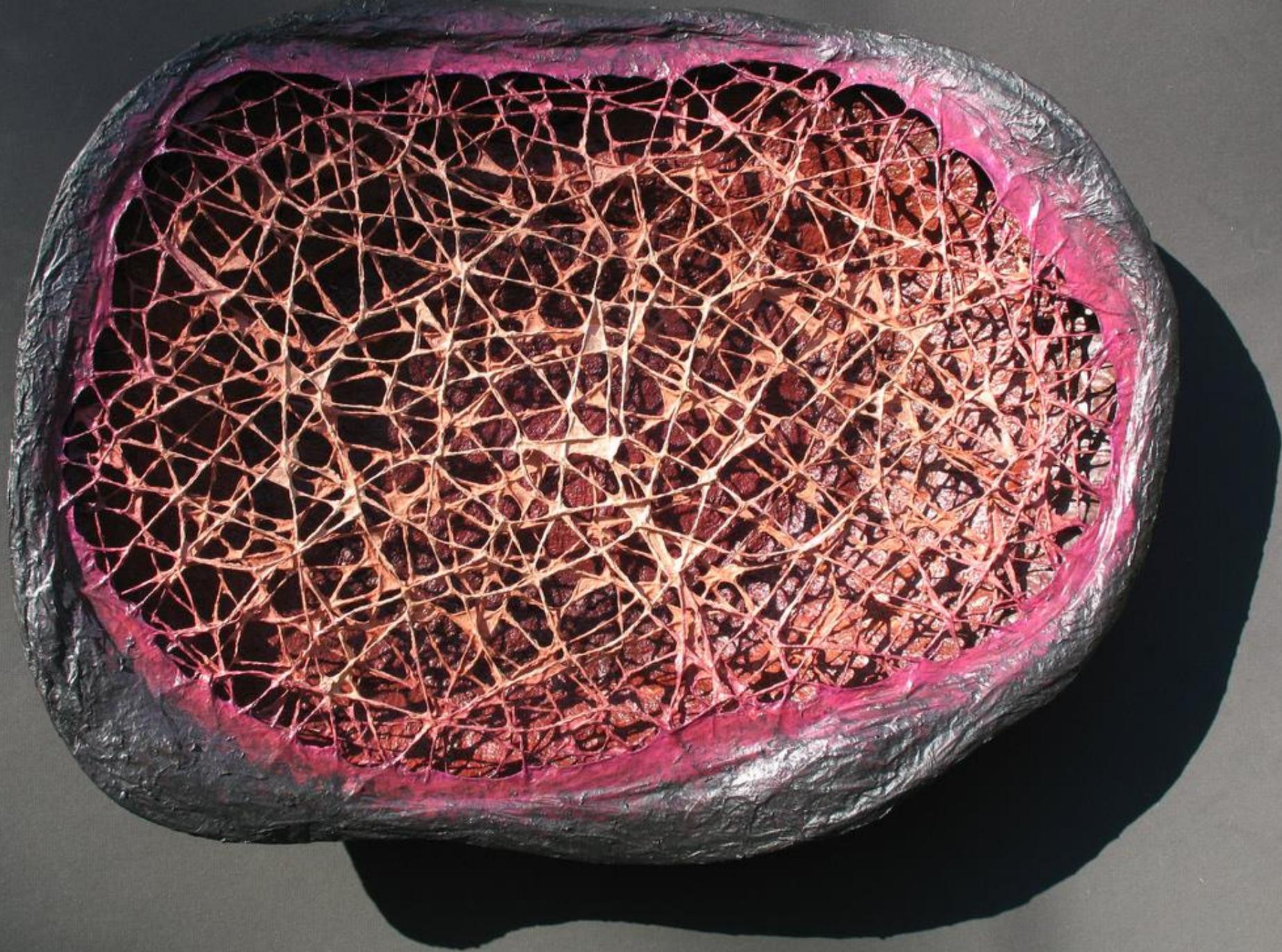
Добро пожаловать в тонкую кишку





Между эпителиальными клетками
очень (ОЧЕНЬ!) плотные контакты

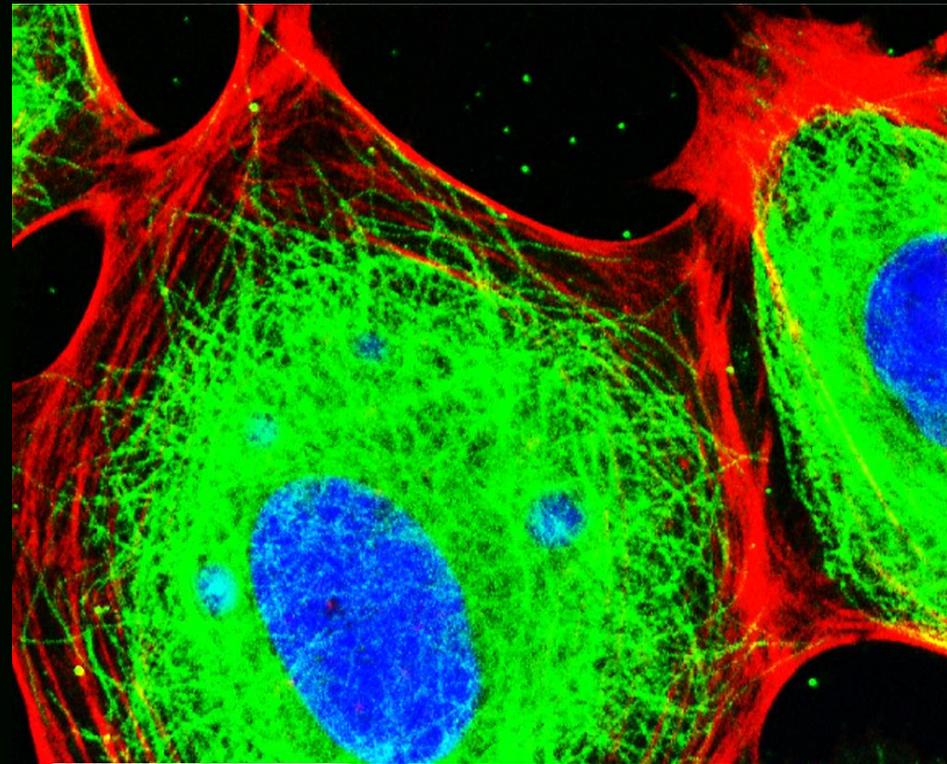
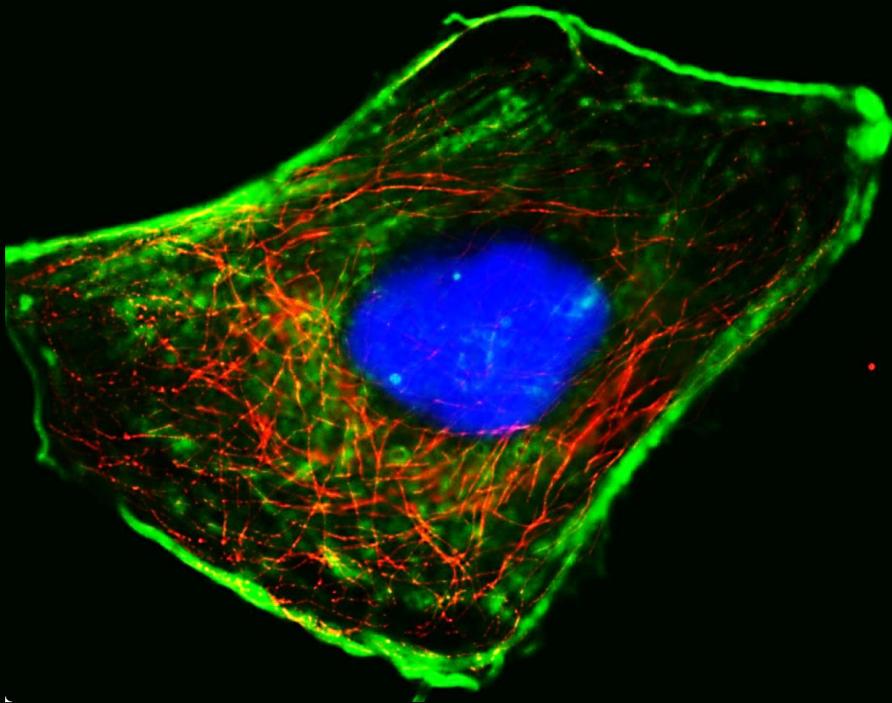


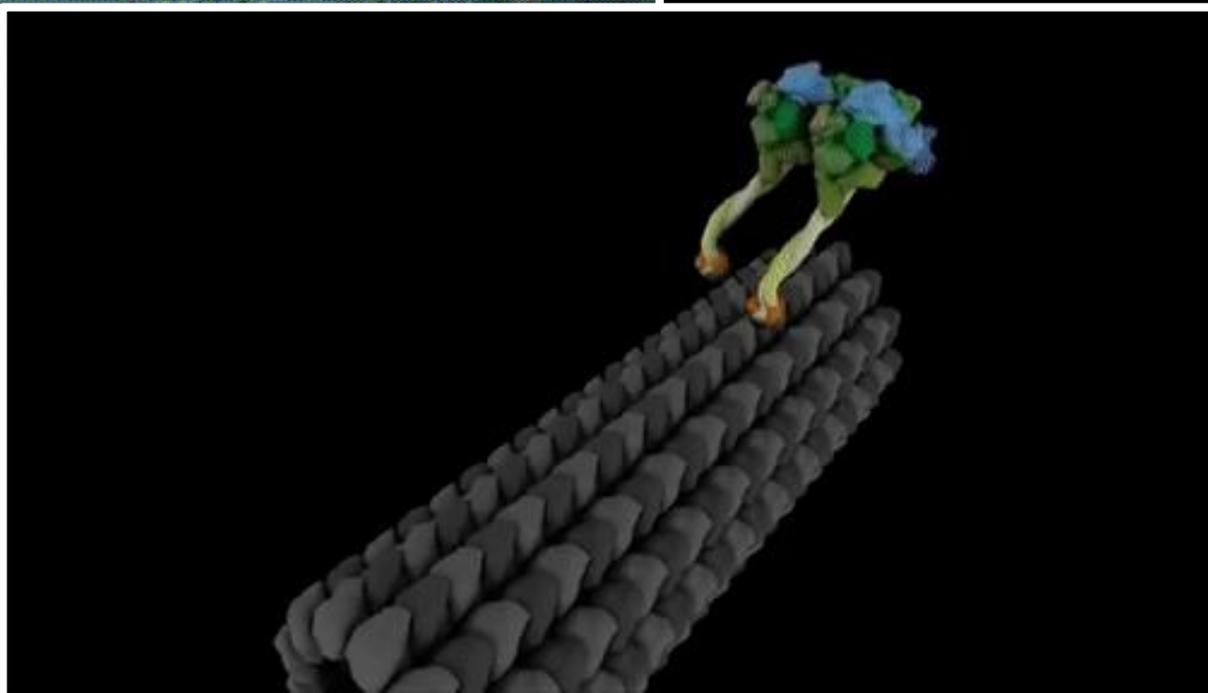
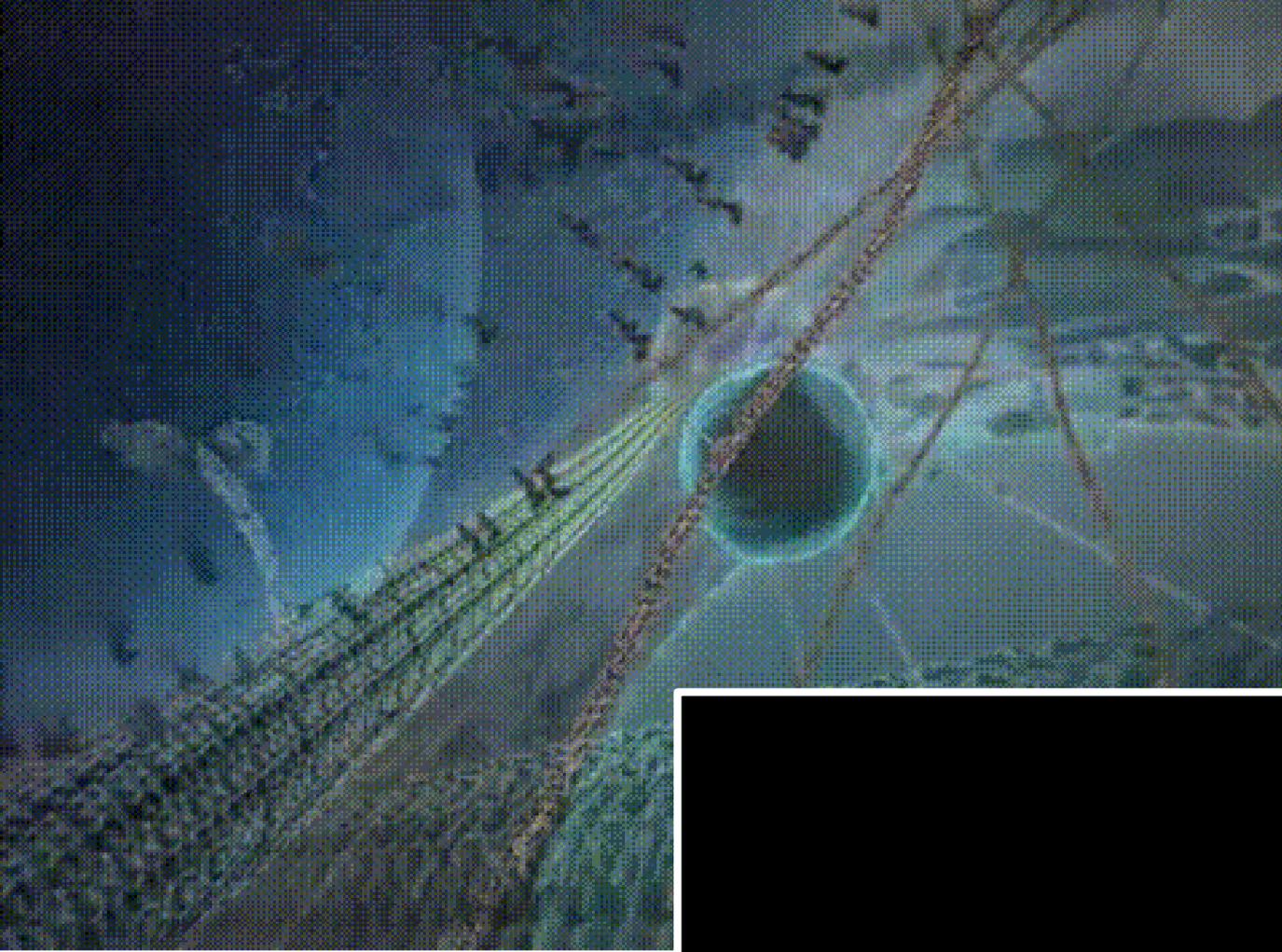




Цитоскелет

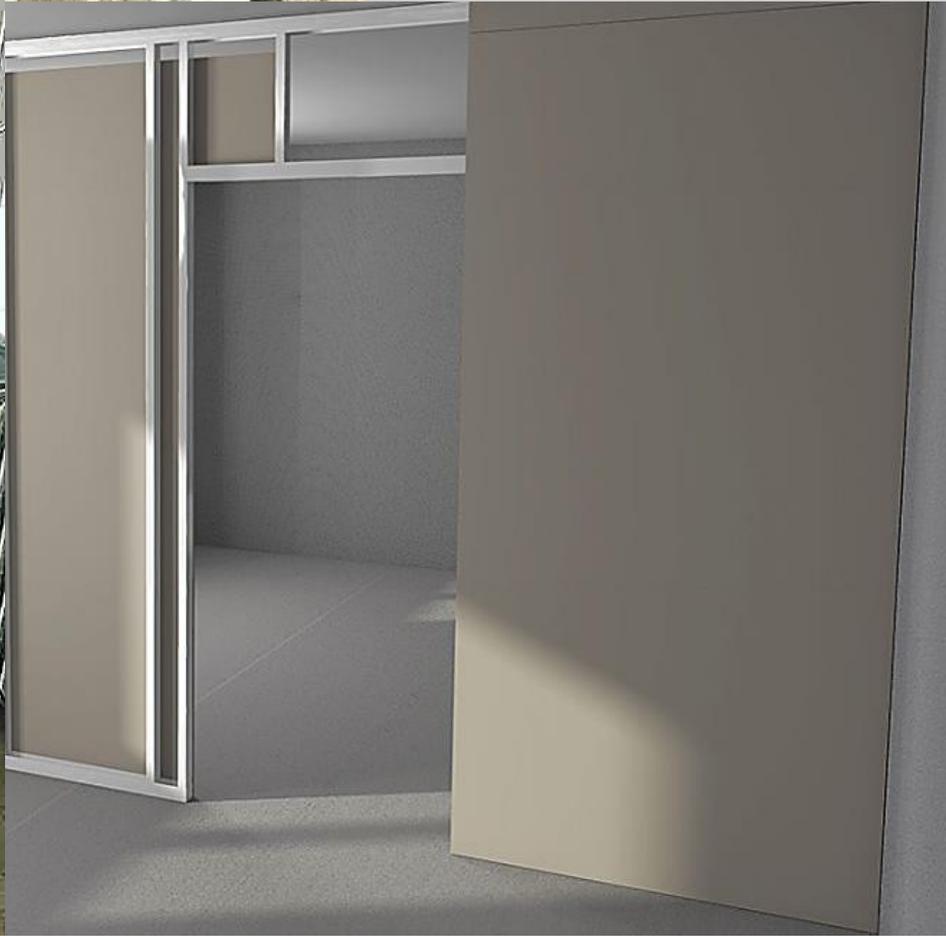
— внутренняя опора и транспорт клетки







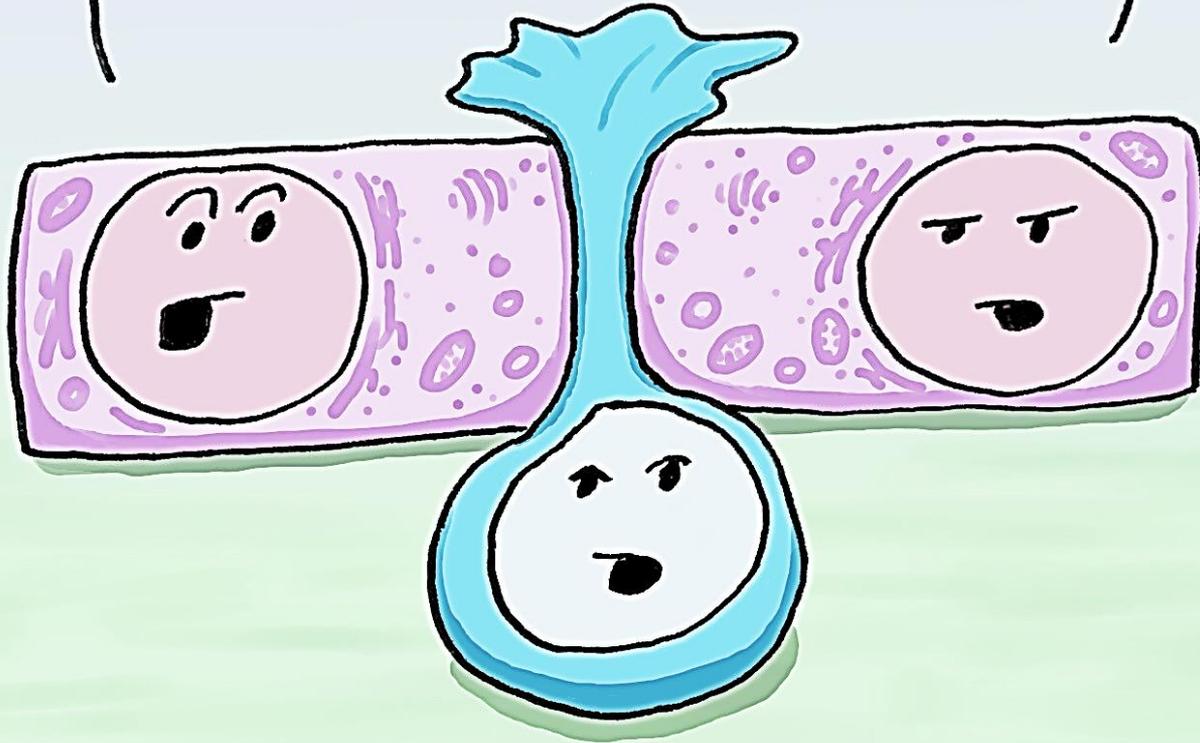




HEY!

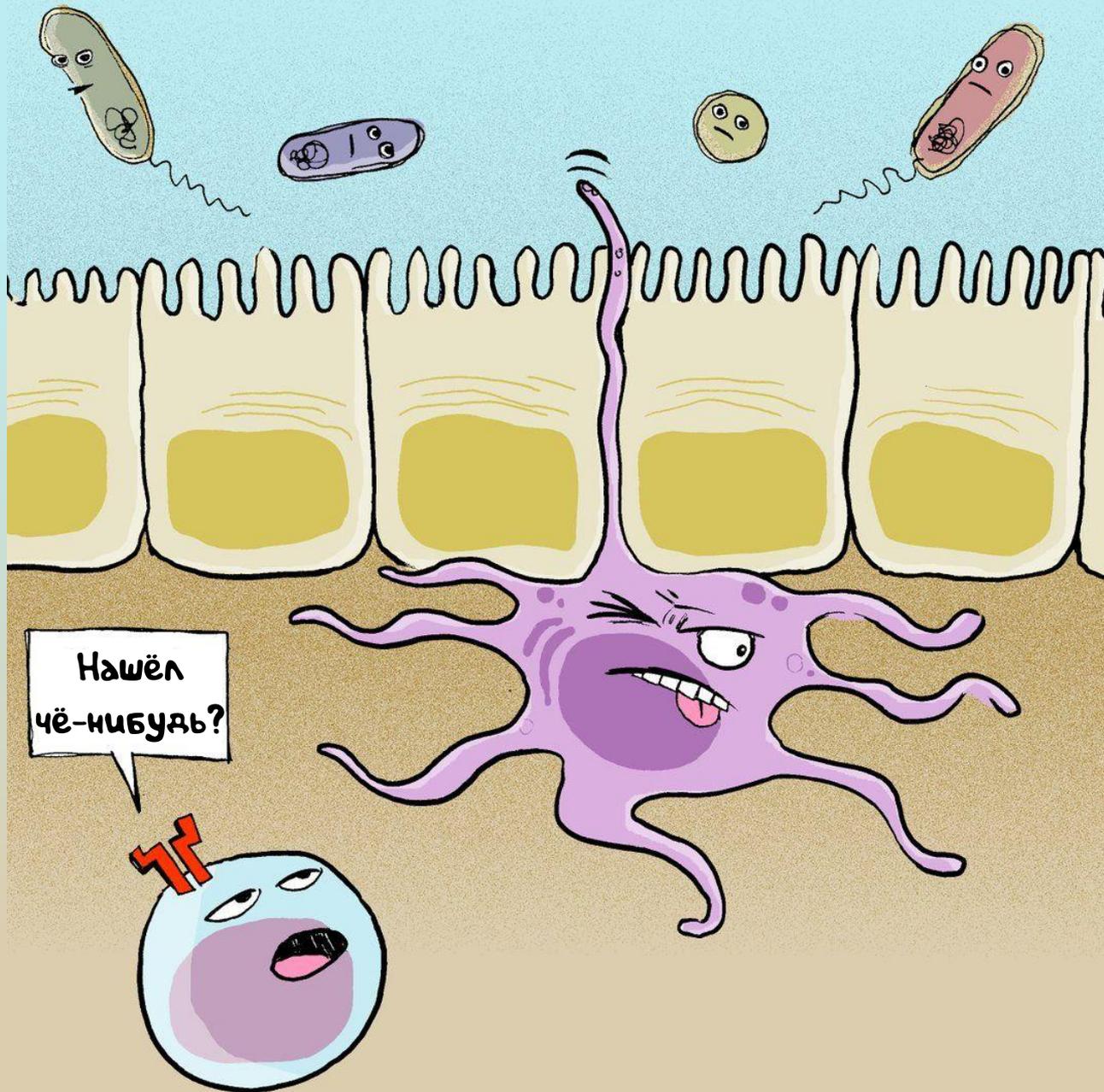
SO RUDE.

COMING THROUGH.

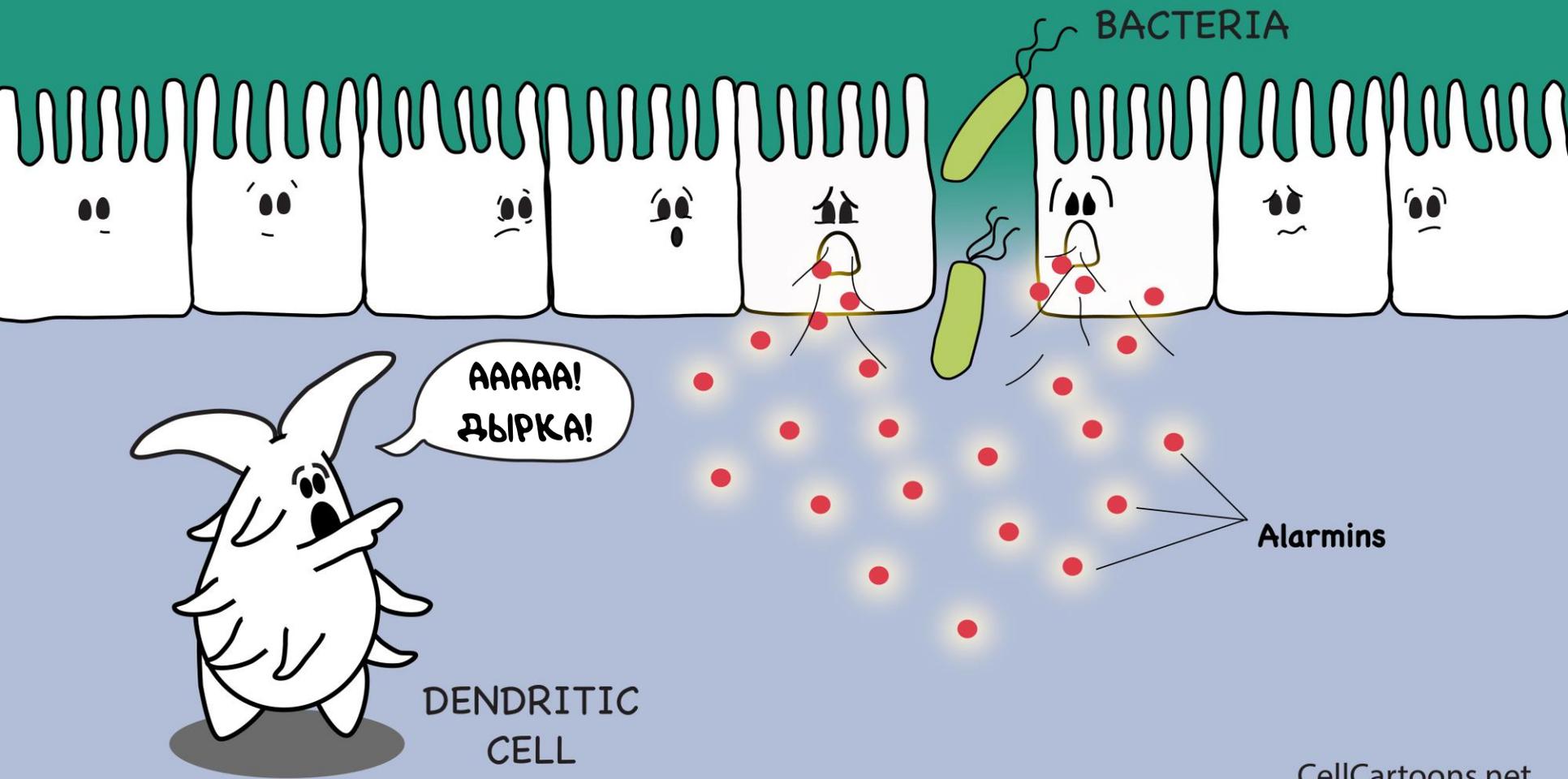


THERE'S NO POLITE WAY TO
BREAK UP TIGHT JUNCTIONS.

Dw•Doodles



Нашёл
чё-нибудь?



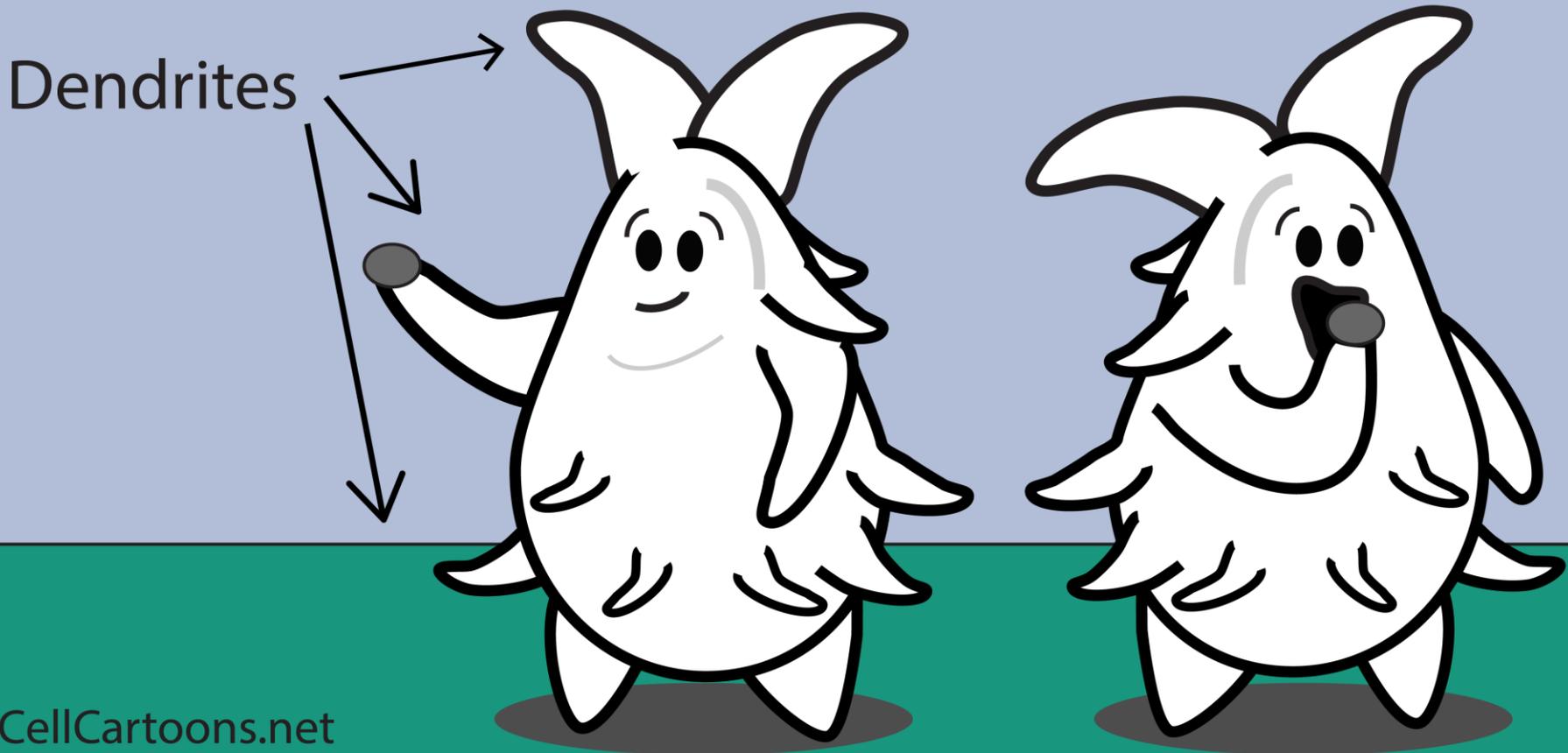
BACTERIA

AAAAA!
ДЫРКА!

Alarmins

DENDRITIC
CELL

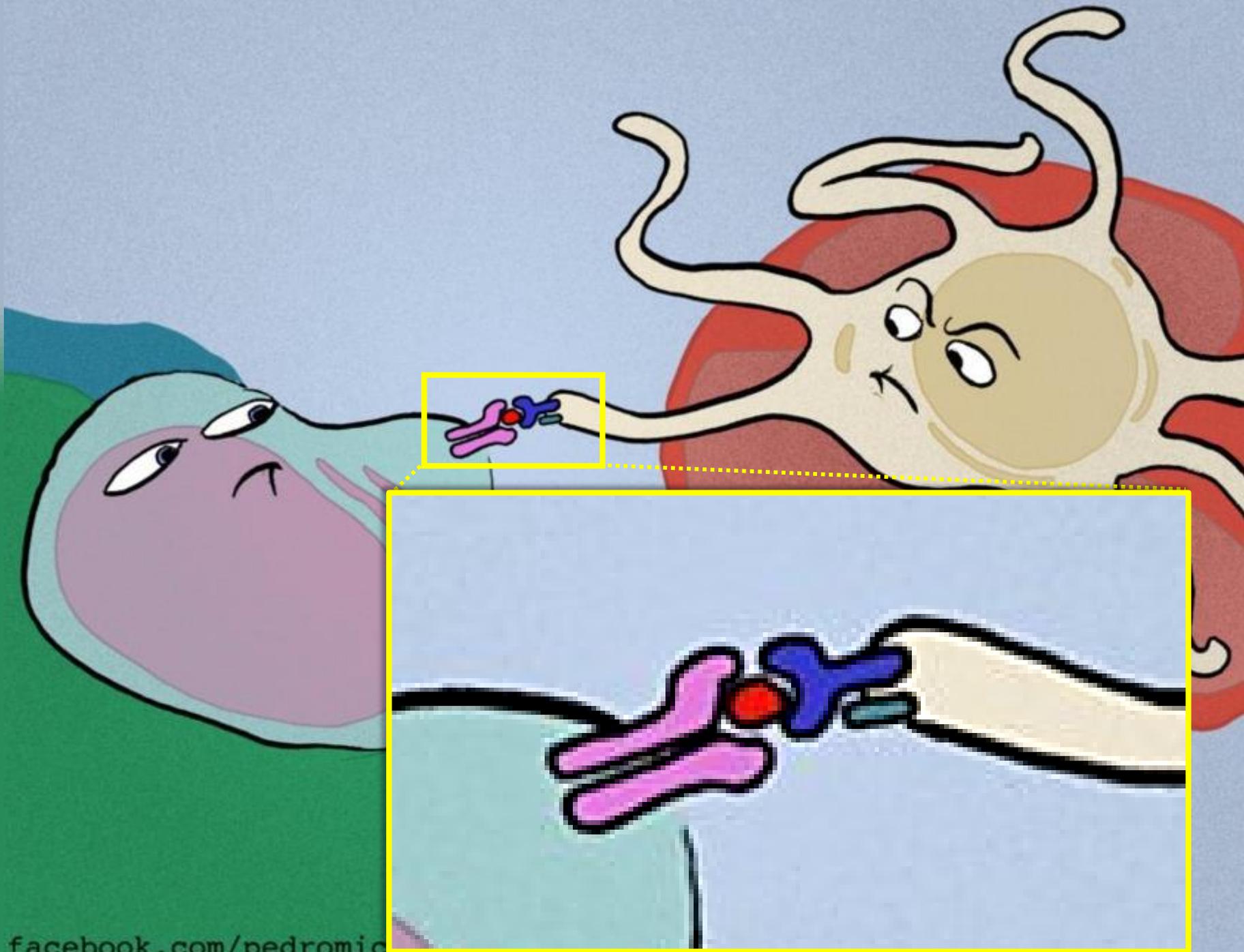
Dendritic Cell



Иногда так хочется с кем-нибудь поделиться...



Dendritic Cell



Hey T! Just the guy I was looking for.



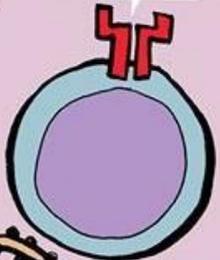
'Sup DC?



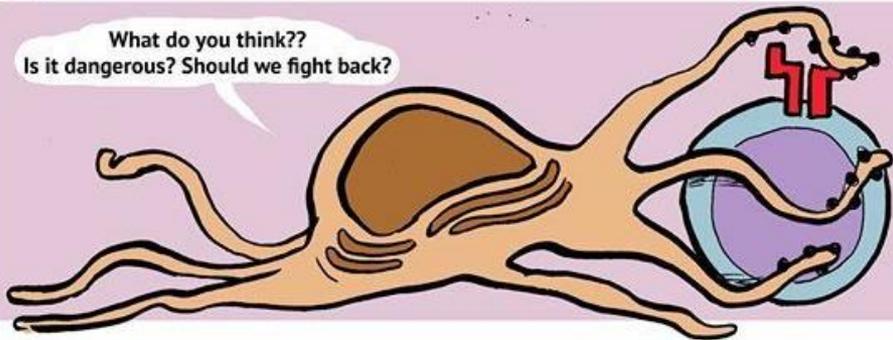
Cool, cool. So, I was wandering around the gut, ya know, and I found this antigen! You wanna see???



Uh... yeah, sure.



What do you think??
Is it dangerous? Should we fight back??



Talk to me T!
WHAT SHOULD WE DO???



DENDRITIC CELLS



RASTAFARIS OF THE IMMUNE SYSTEM



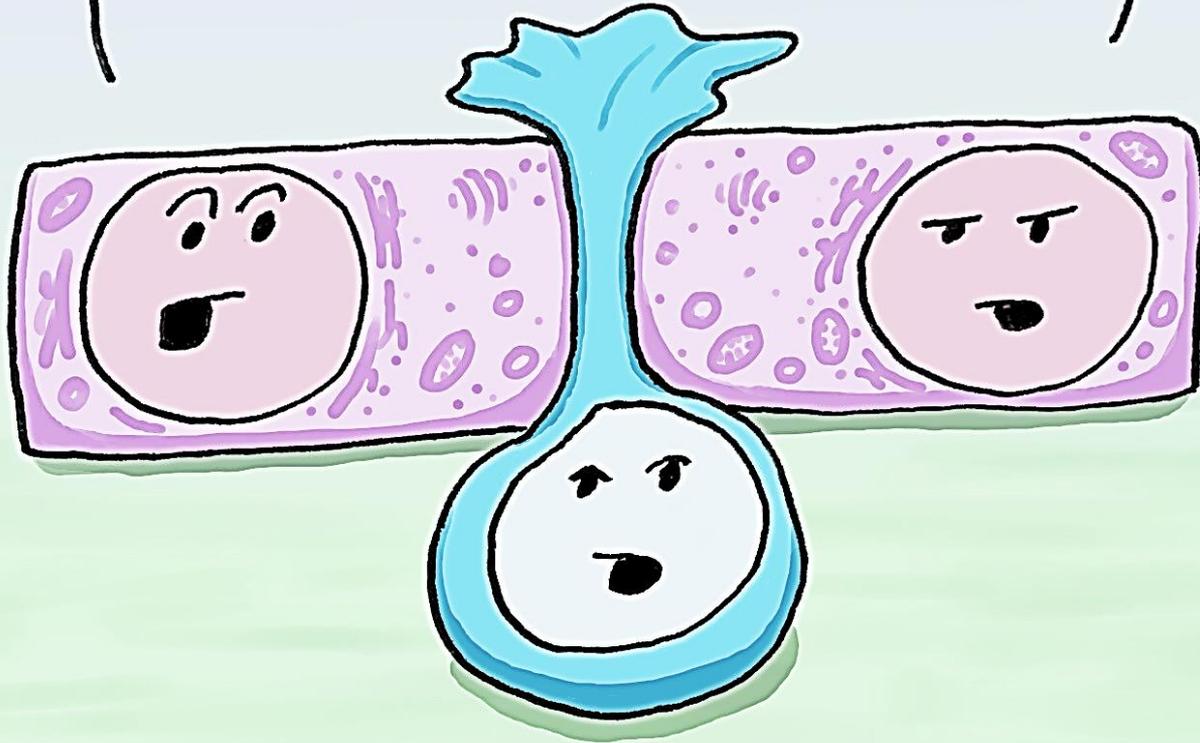
Washington DC

in antigen presentation we trust

HEY!

SO RUDE.

COMING THROUGH.

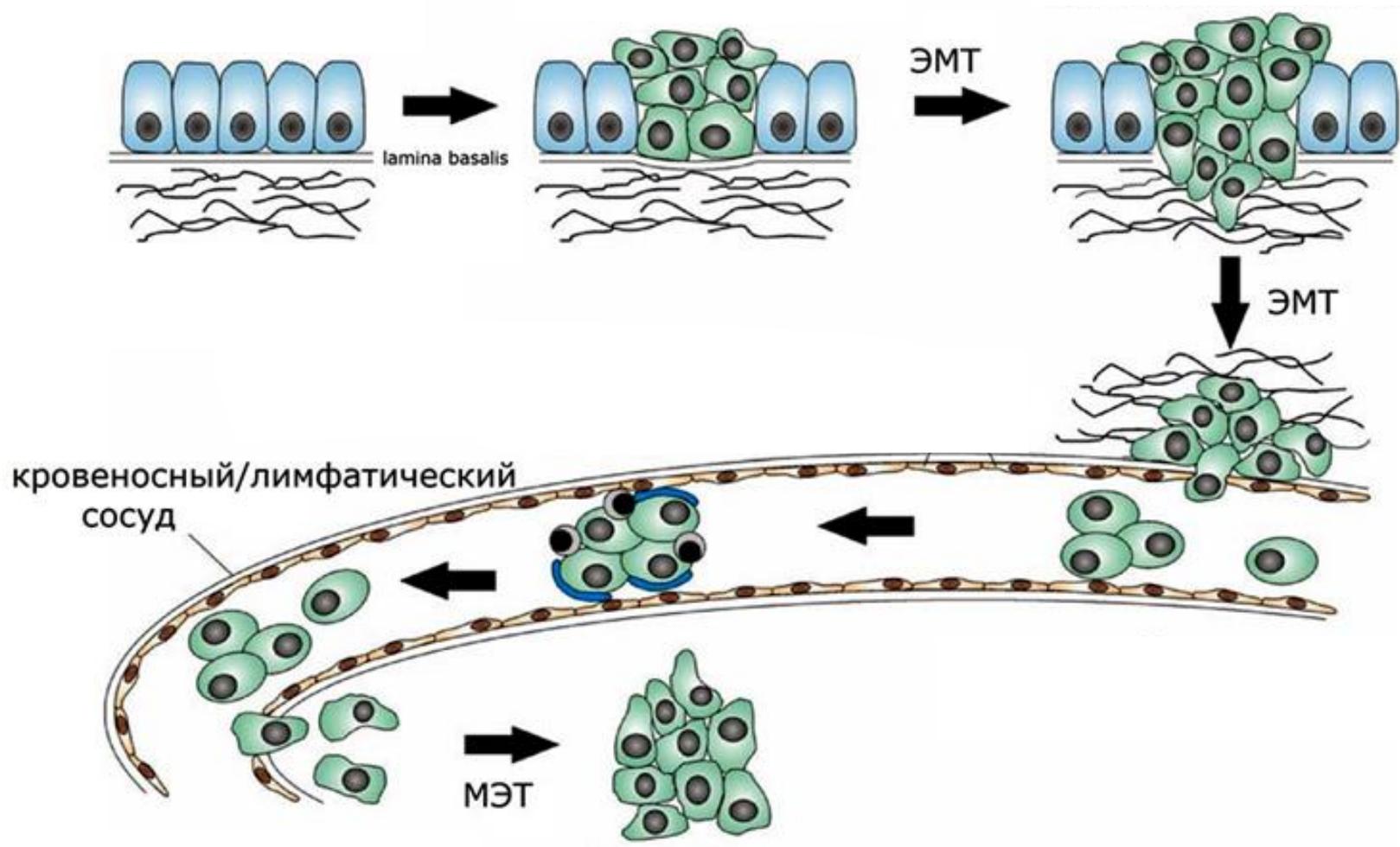


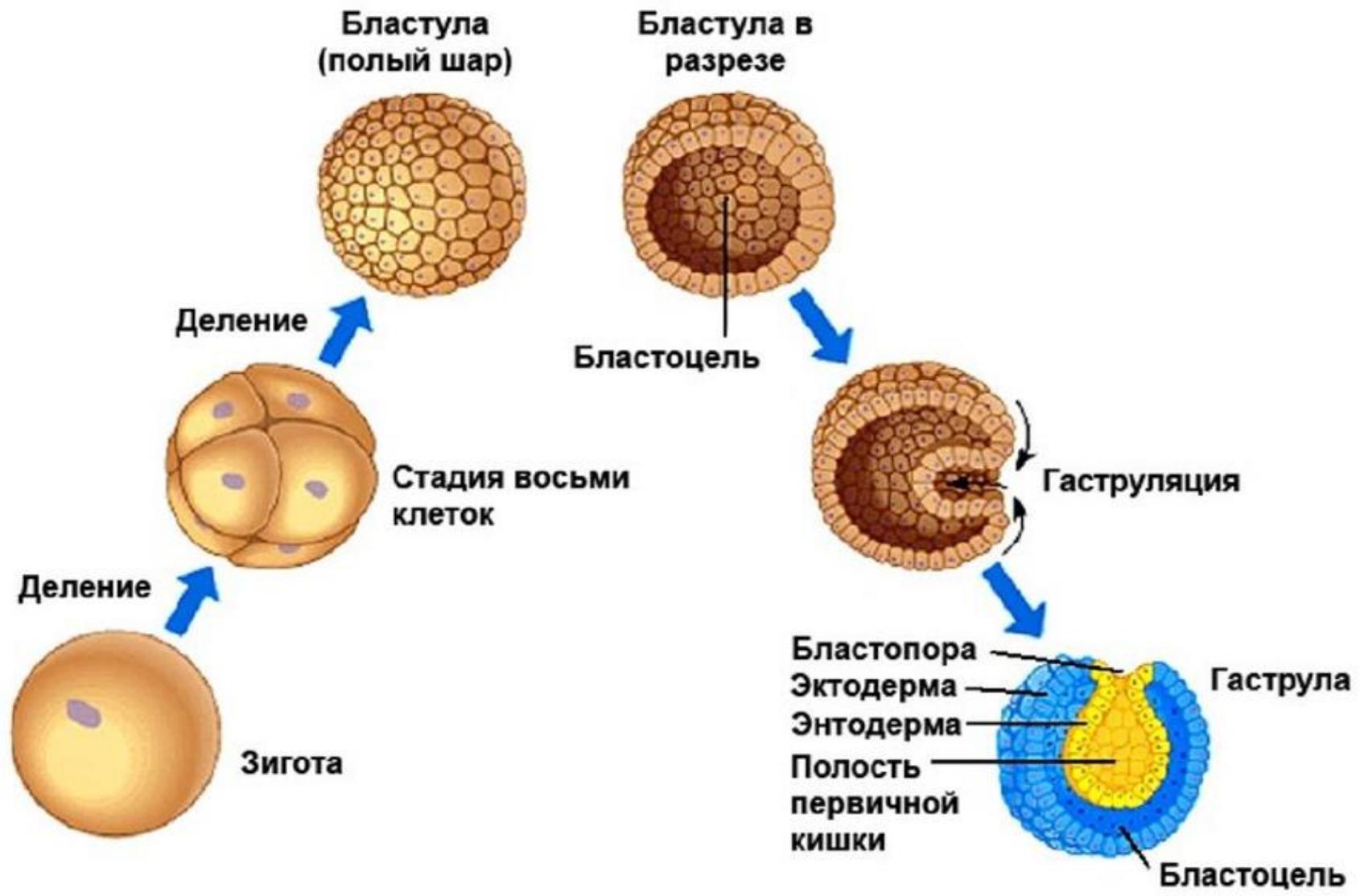
THERE'S NO POLITE WAY TO
BREAK UP TIGHT JUNCTIONS.

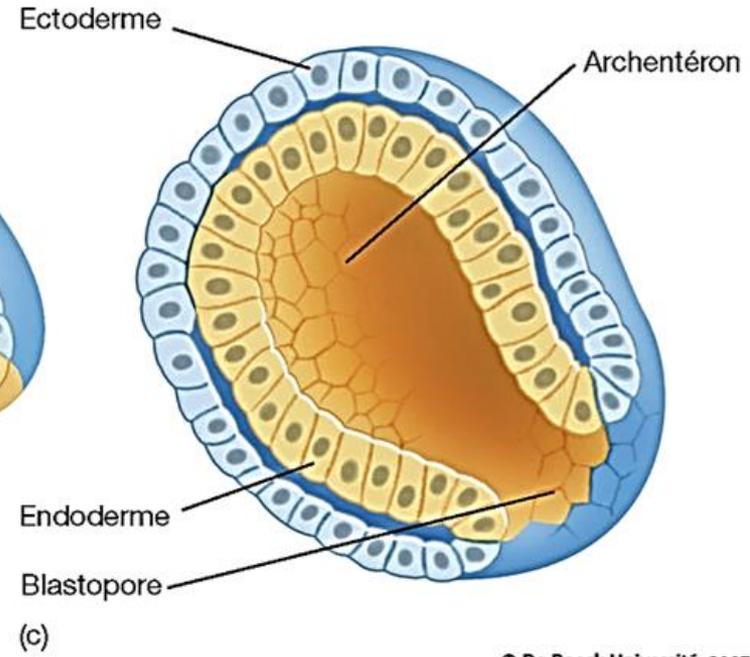
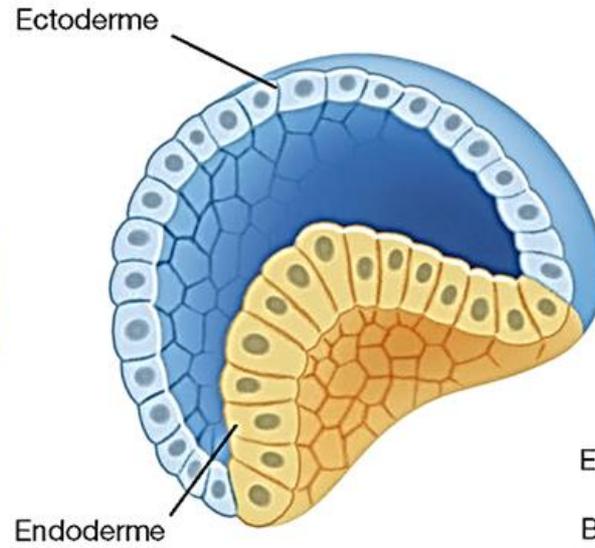
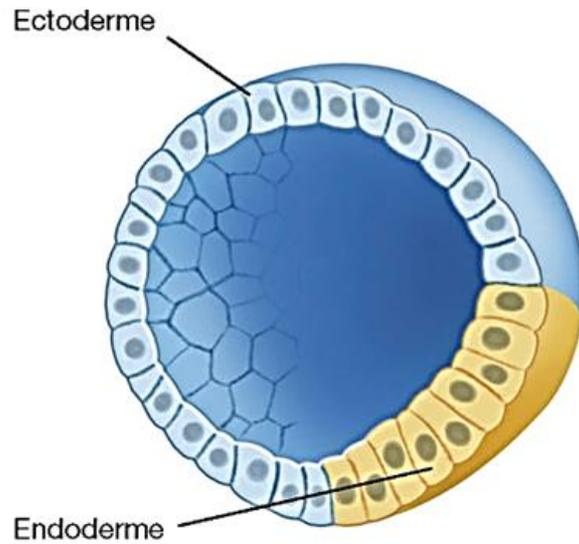
Dw•Doodles

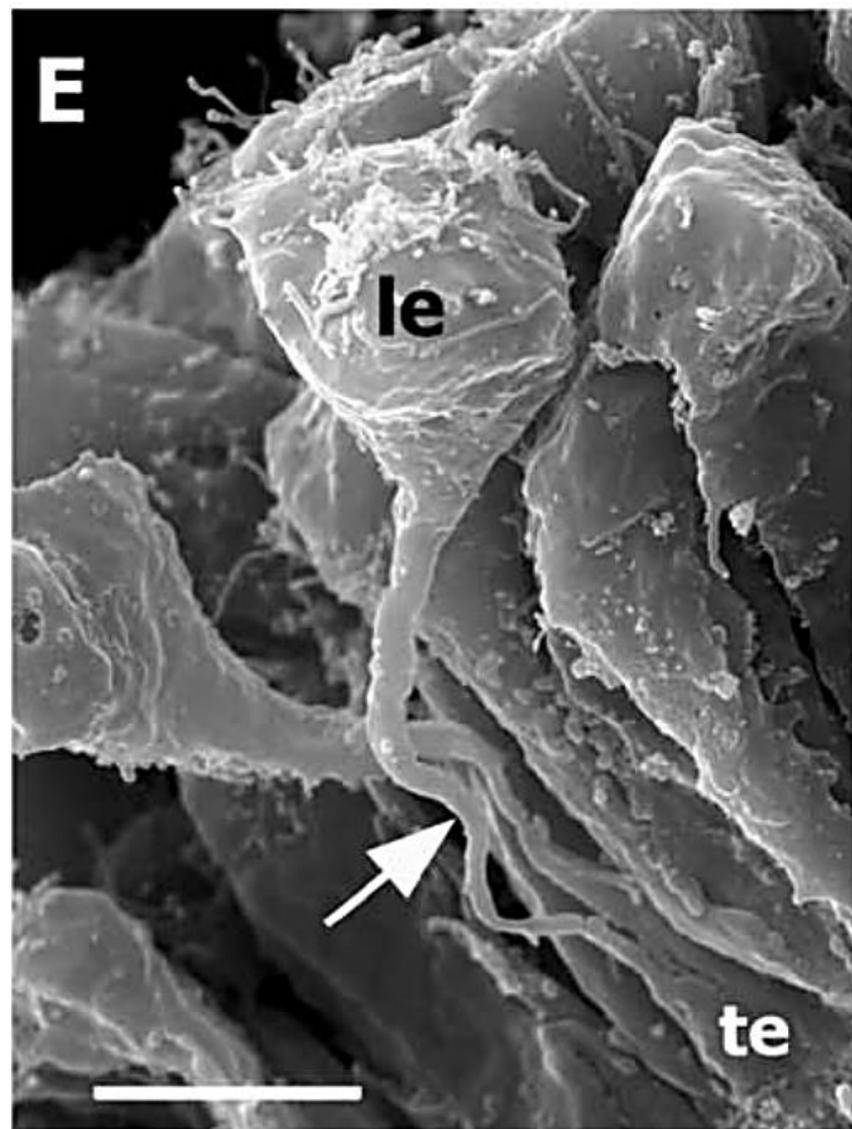
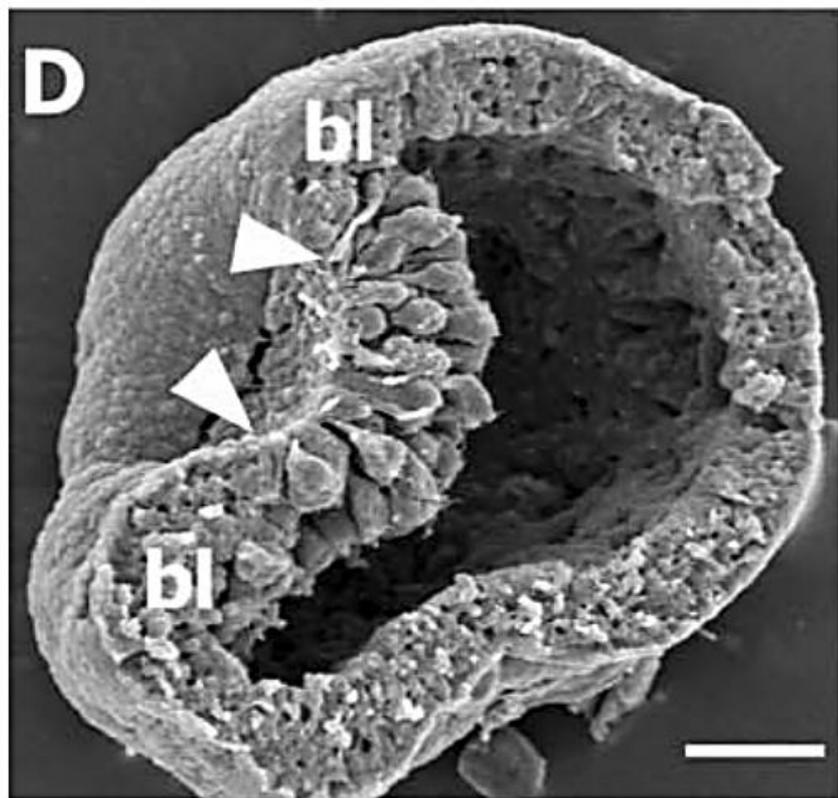
Пора бежать!

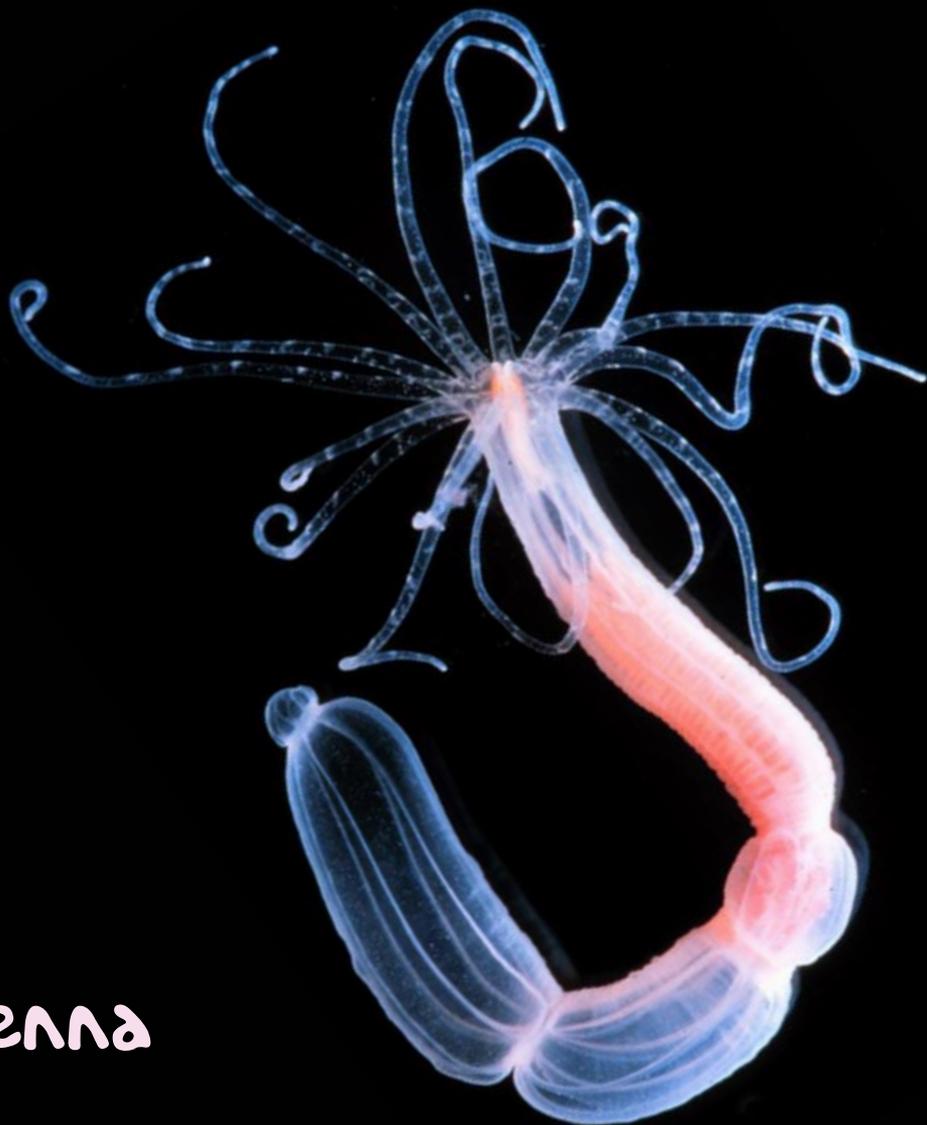




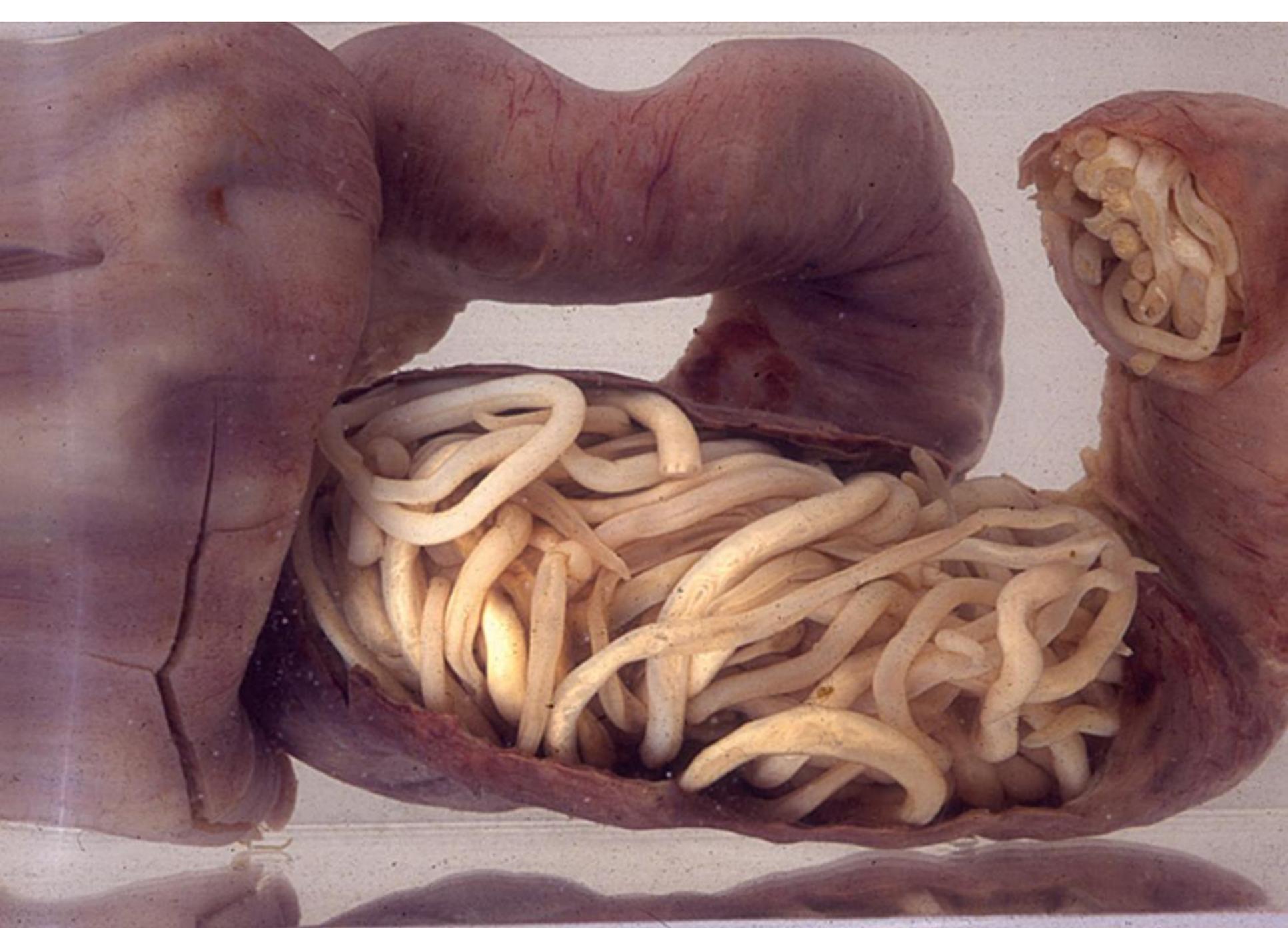


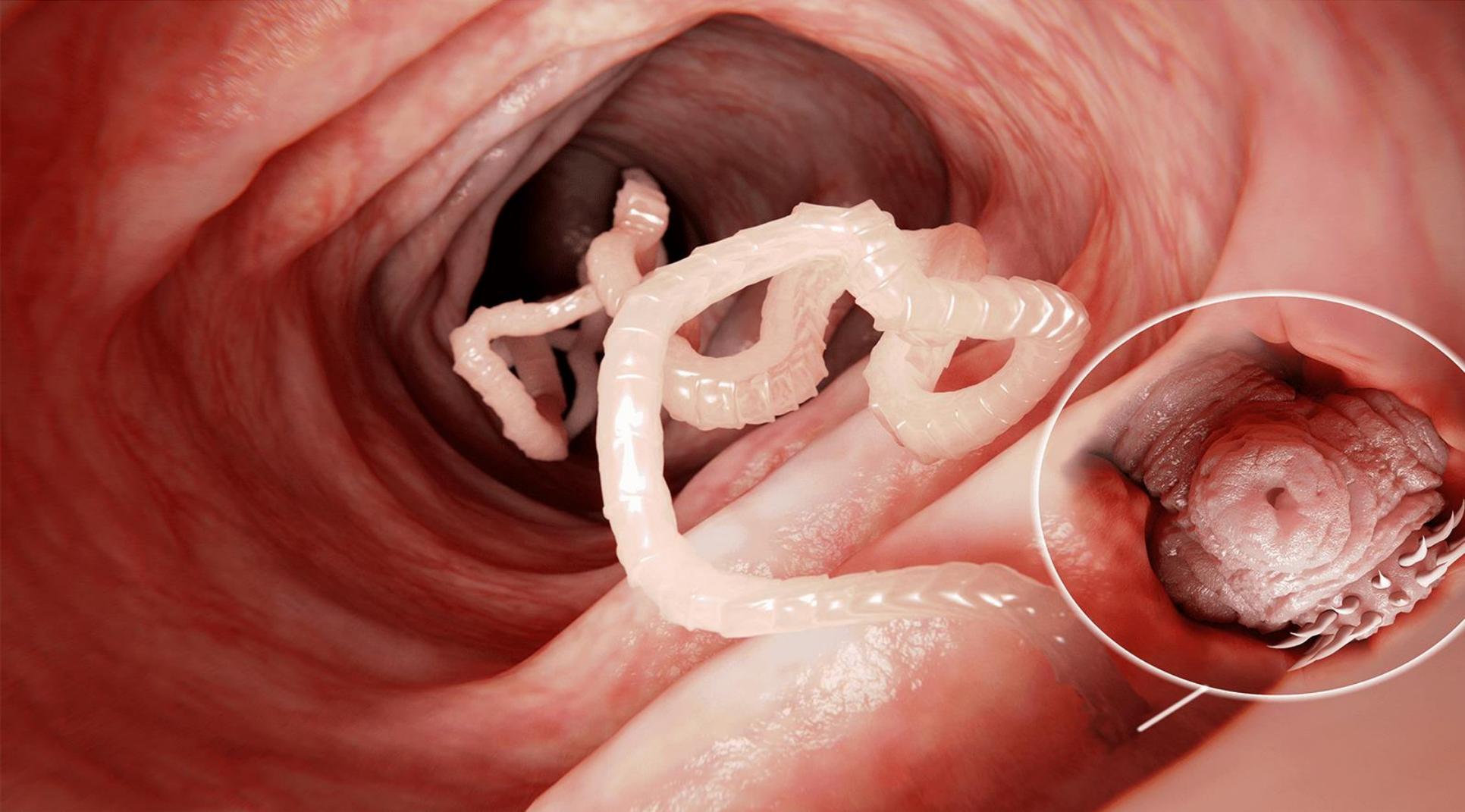


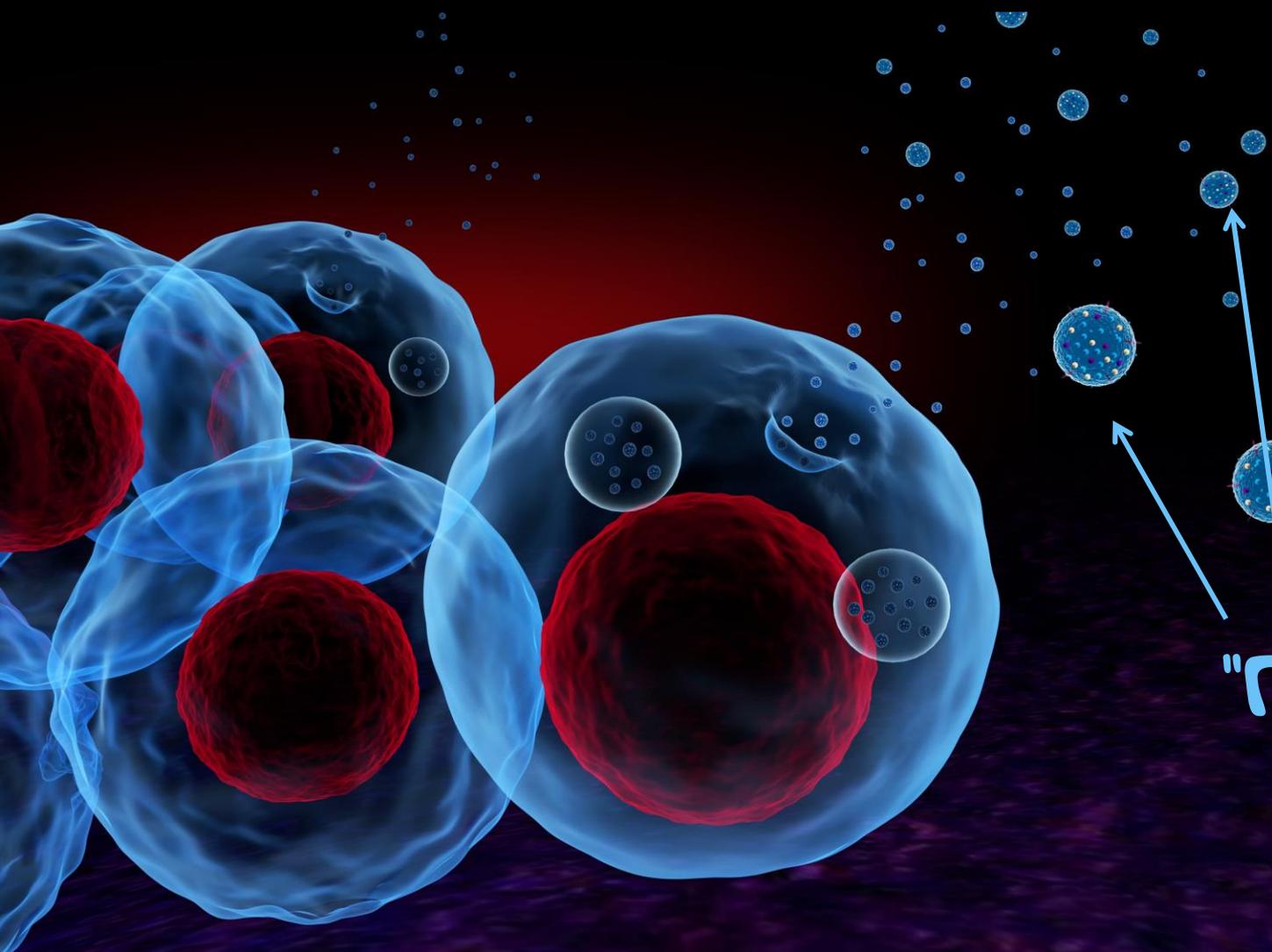




Актиния Нематостелла



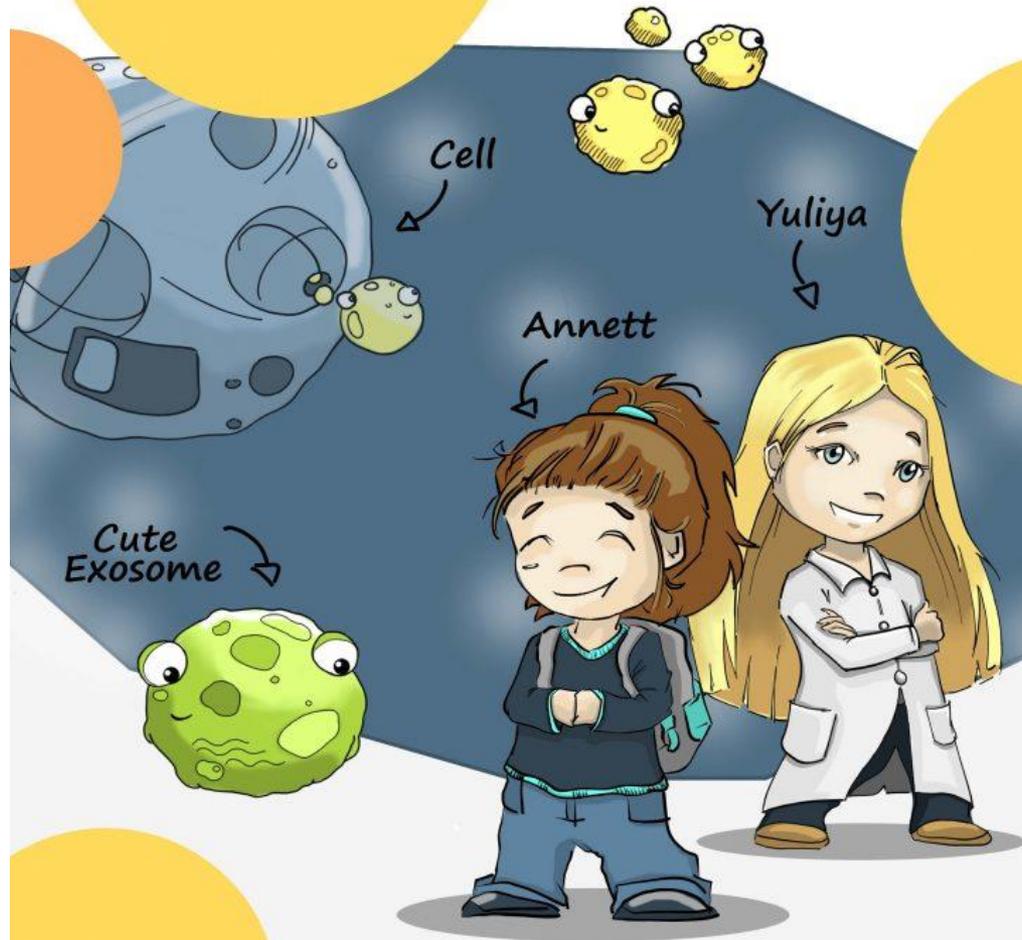




"Посылки"

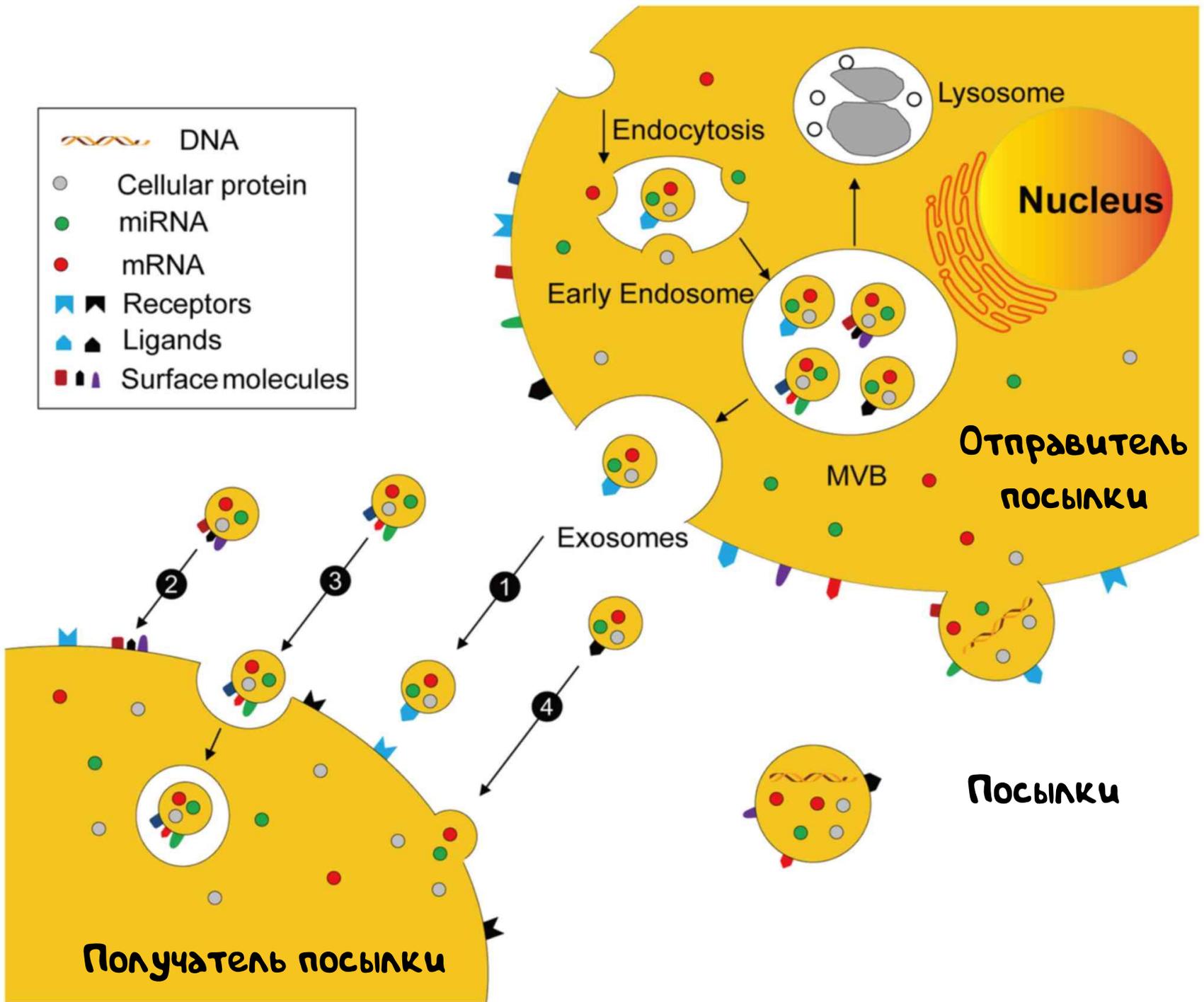
Yuliya Shakalisava & Annett von Katz

Catch the Exosomes

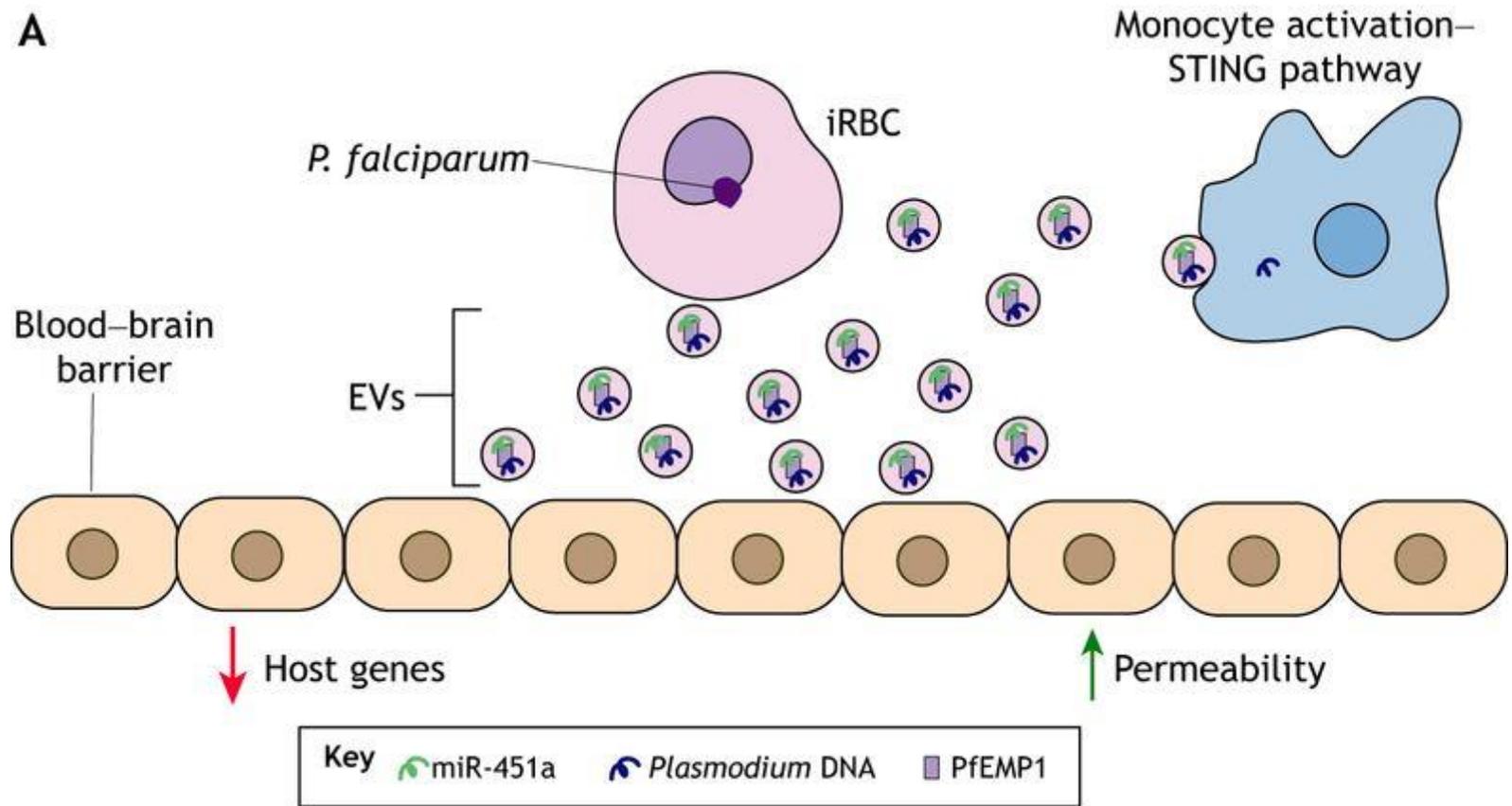


An educational booklet about the fascinating world of exosomes

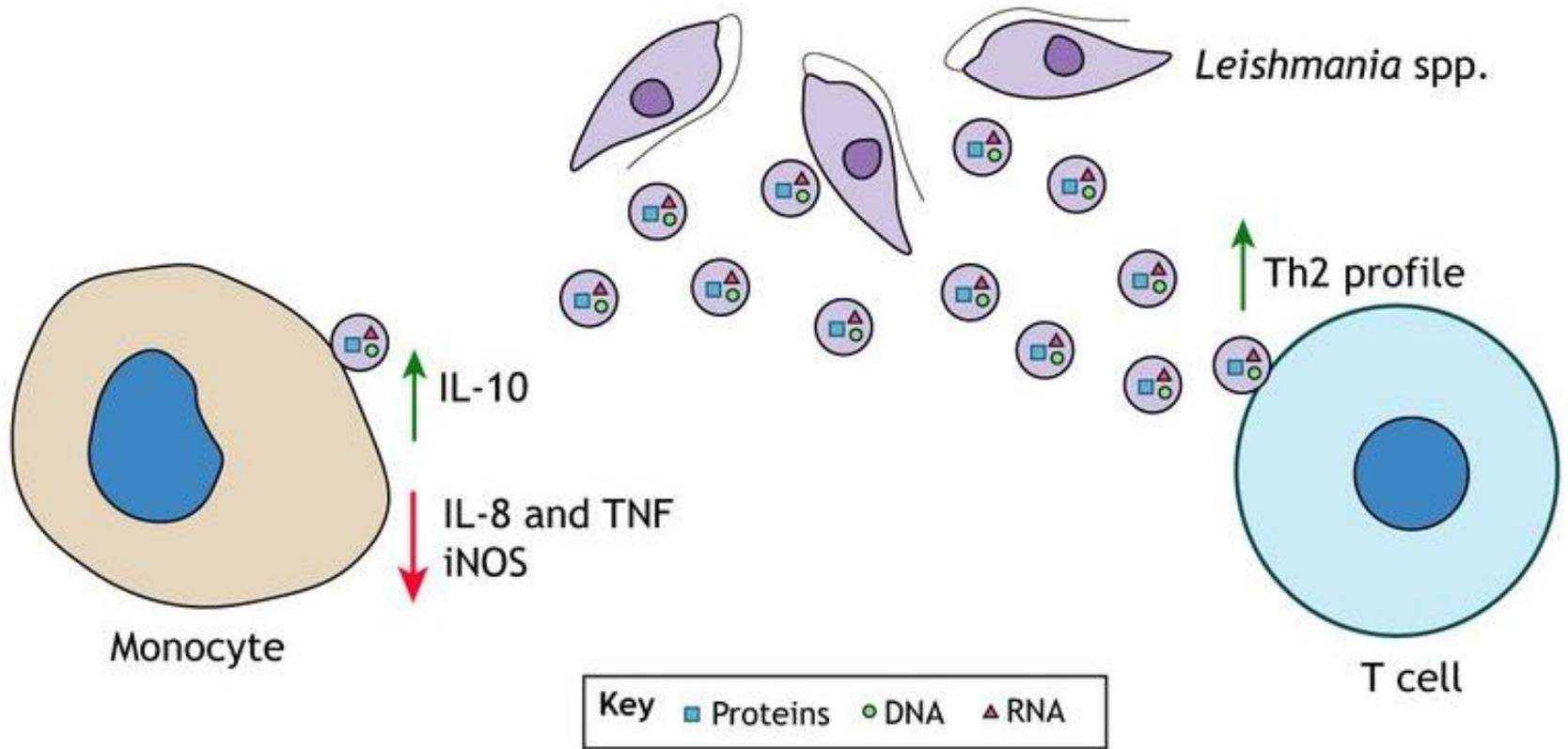
-  DNA
-  Cellular protein
-  miRNA
-  mRNA
-  Receptors
-  Ligands
-  Surface molecules



A



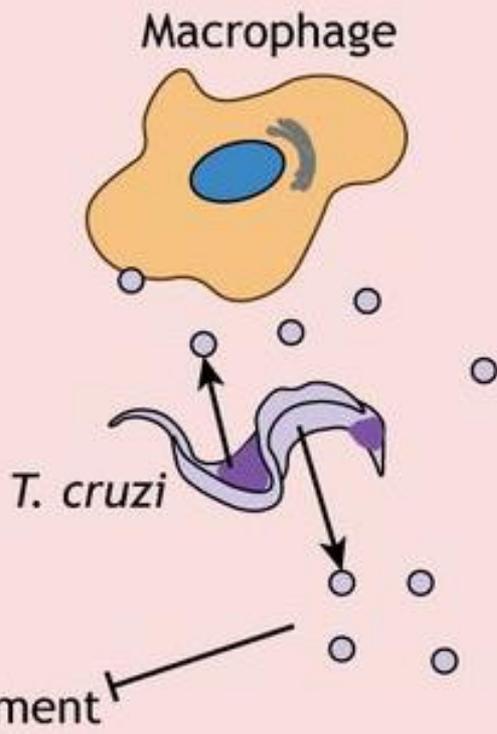
B



C

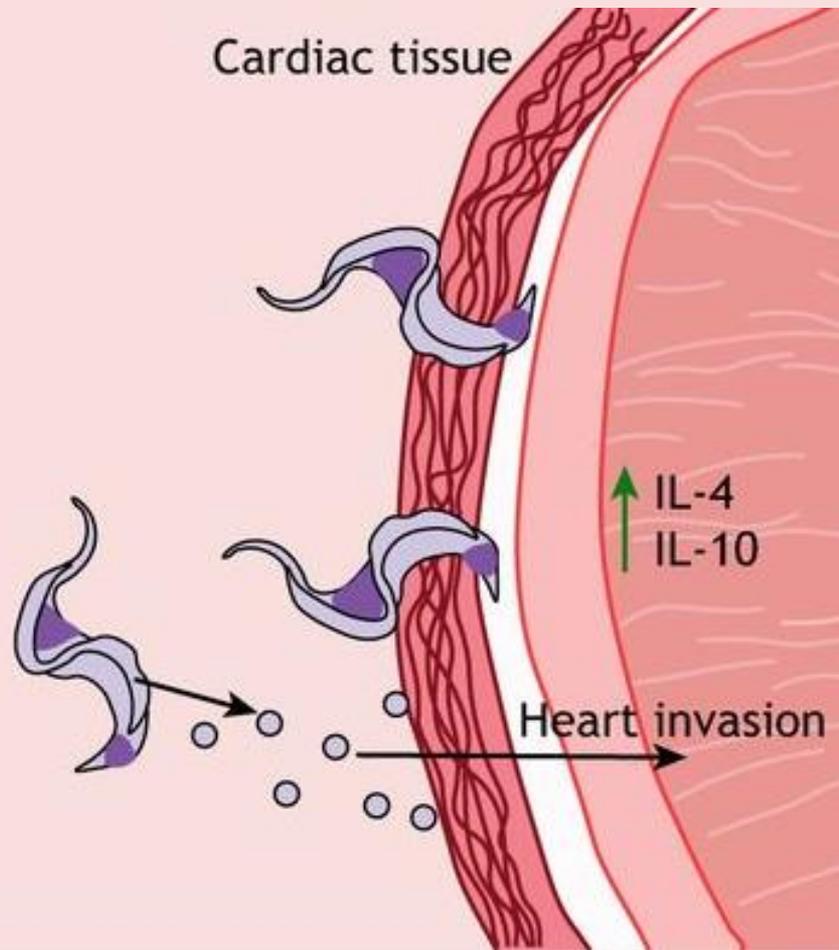
Immuno-
suppression

MHC-II
CD86
TNF
iNOS



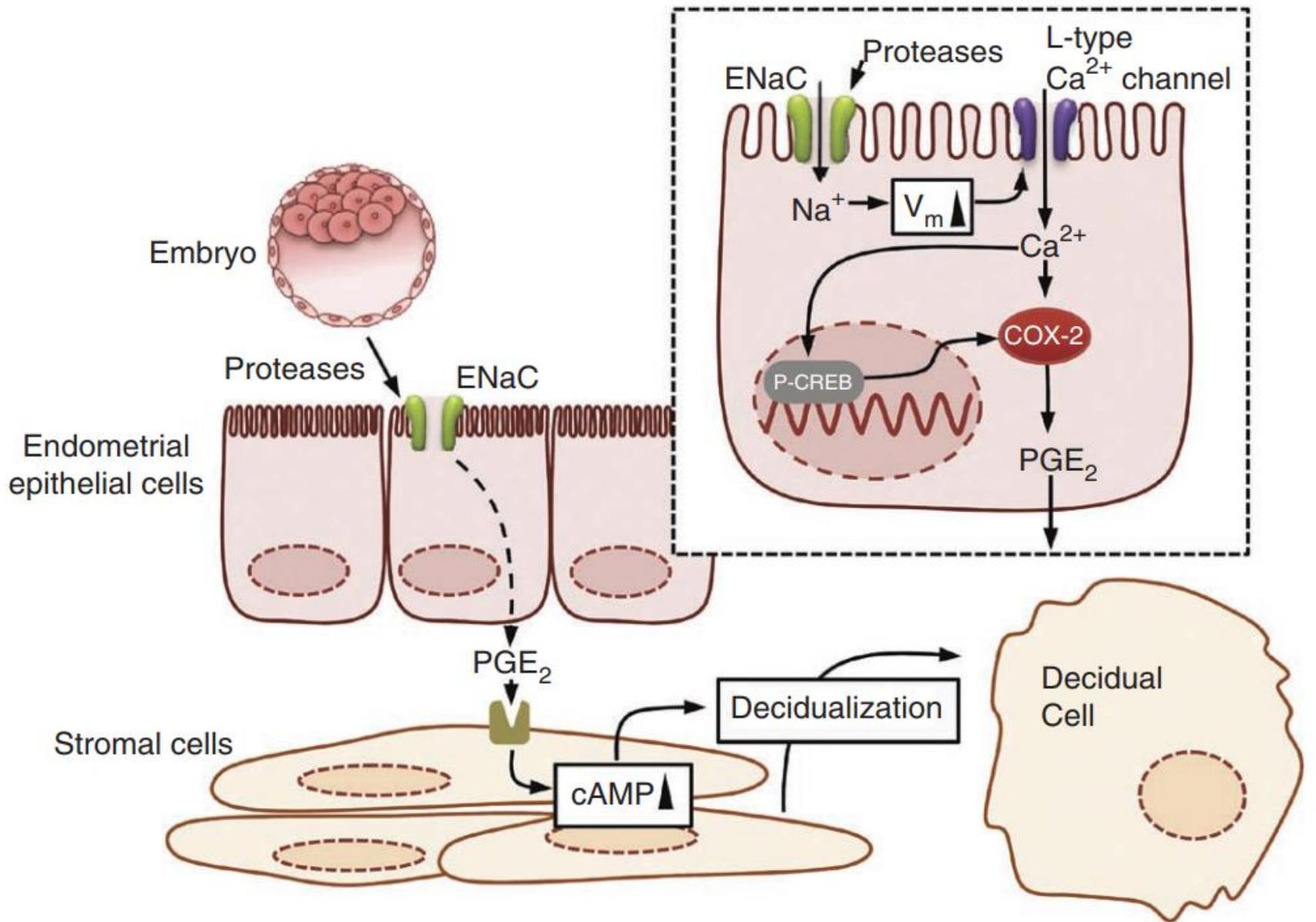
Complement

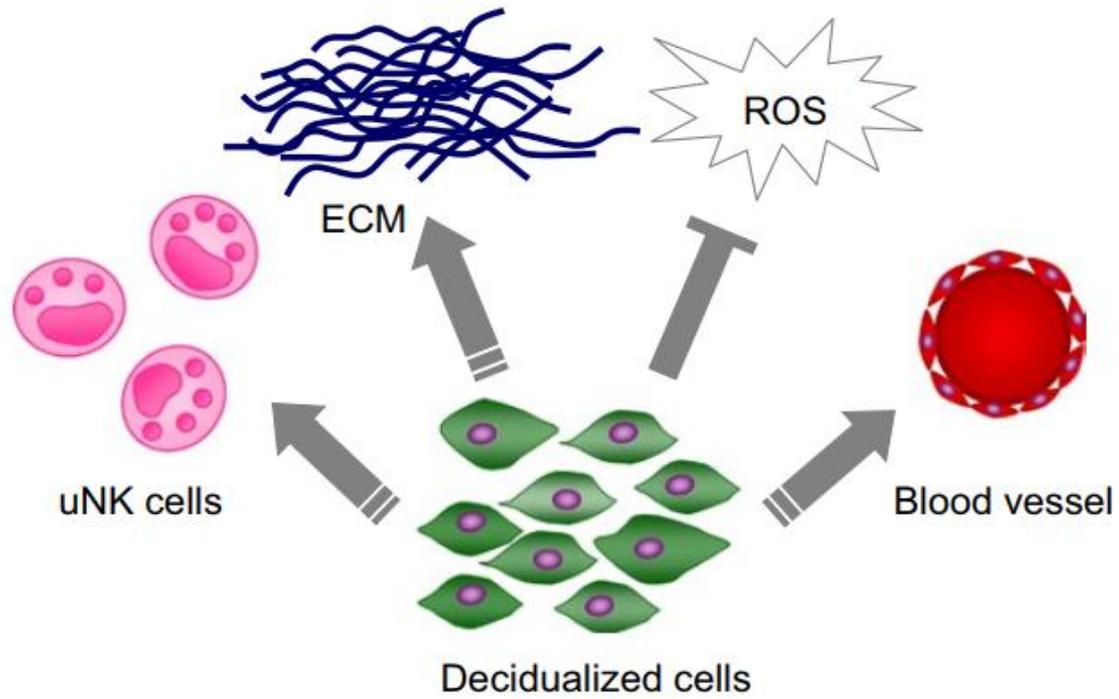
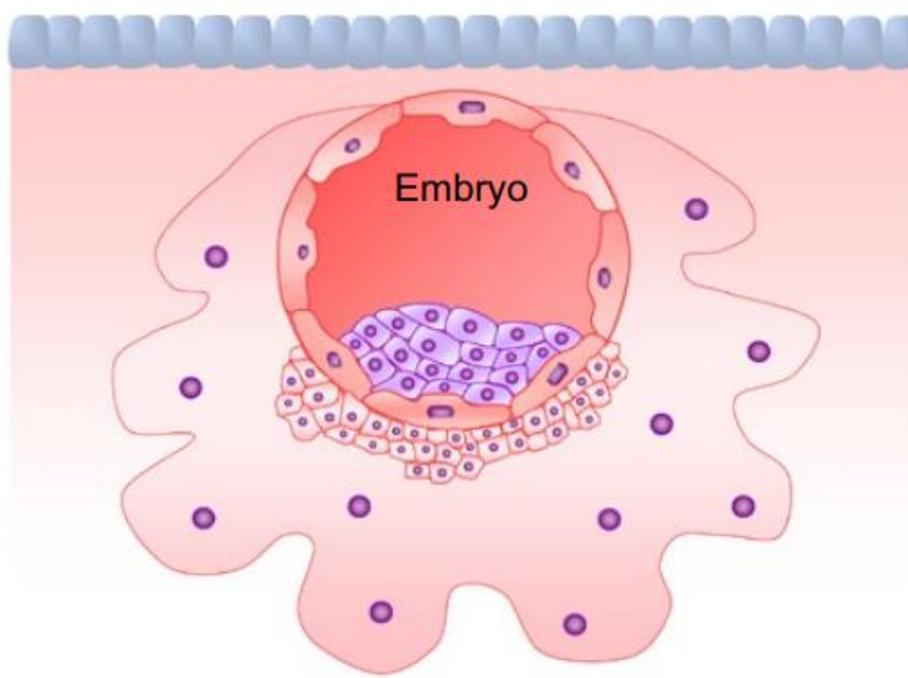
Cardiac tissue

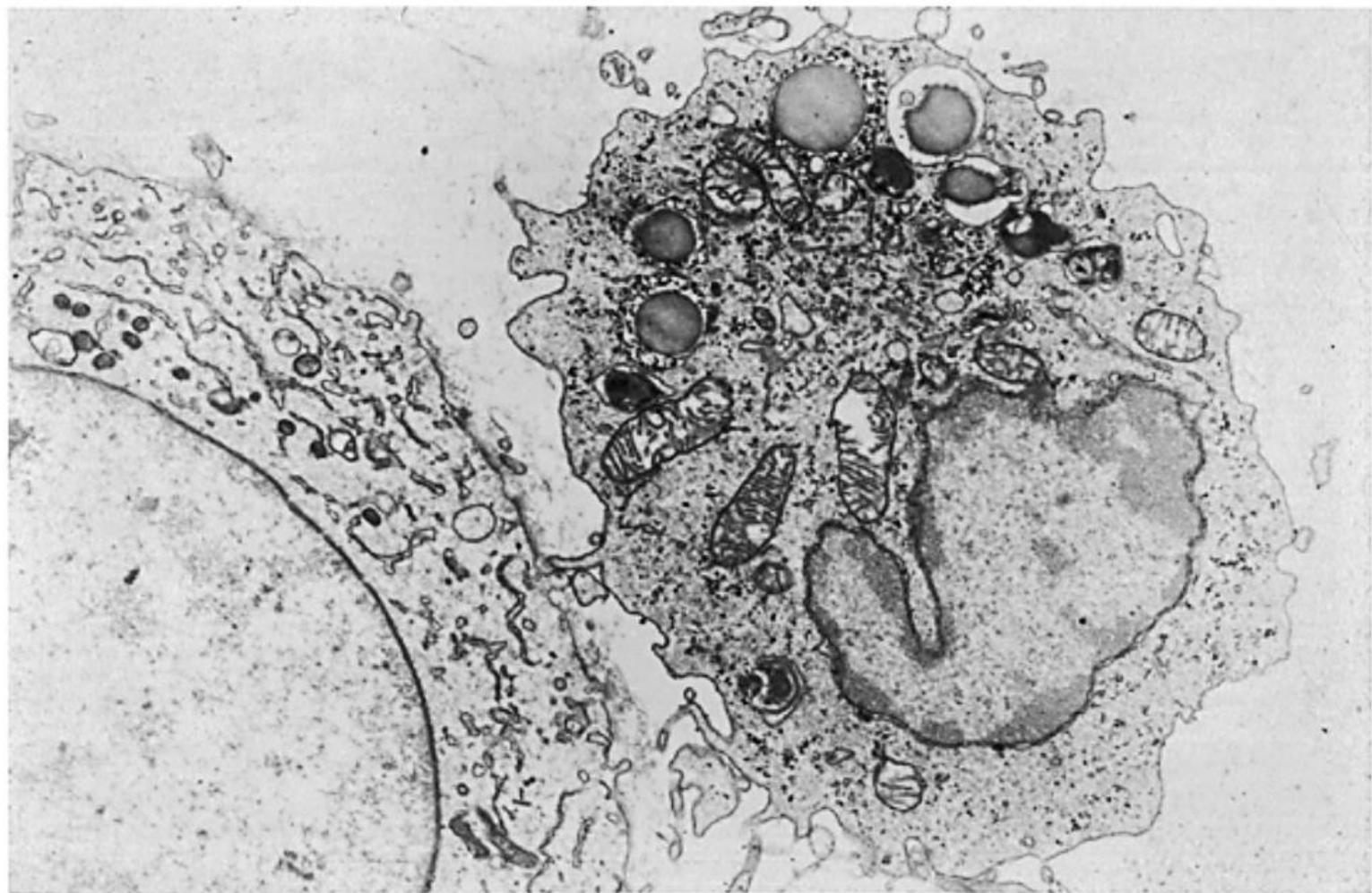


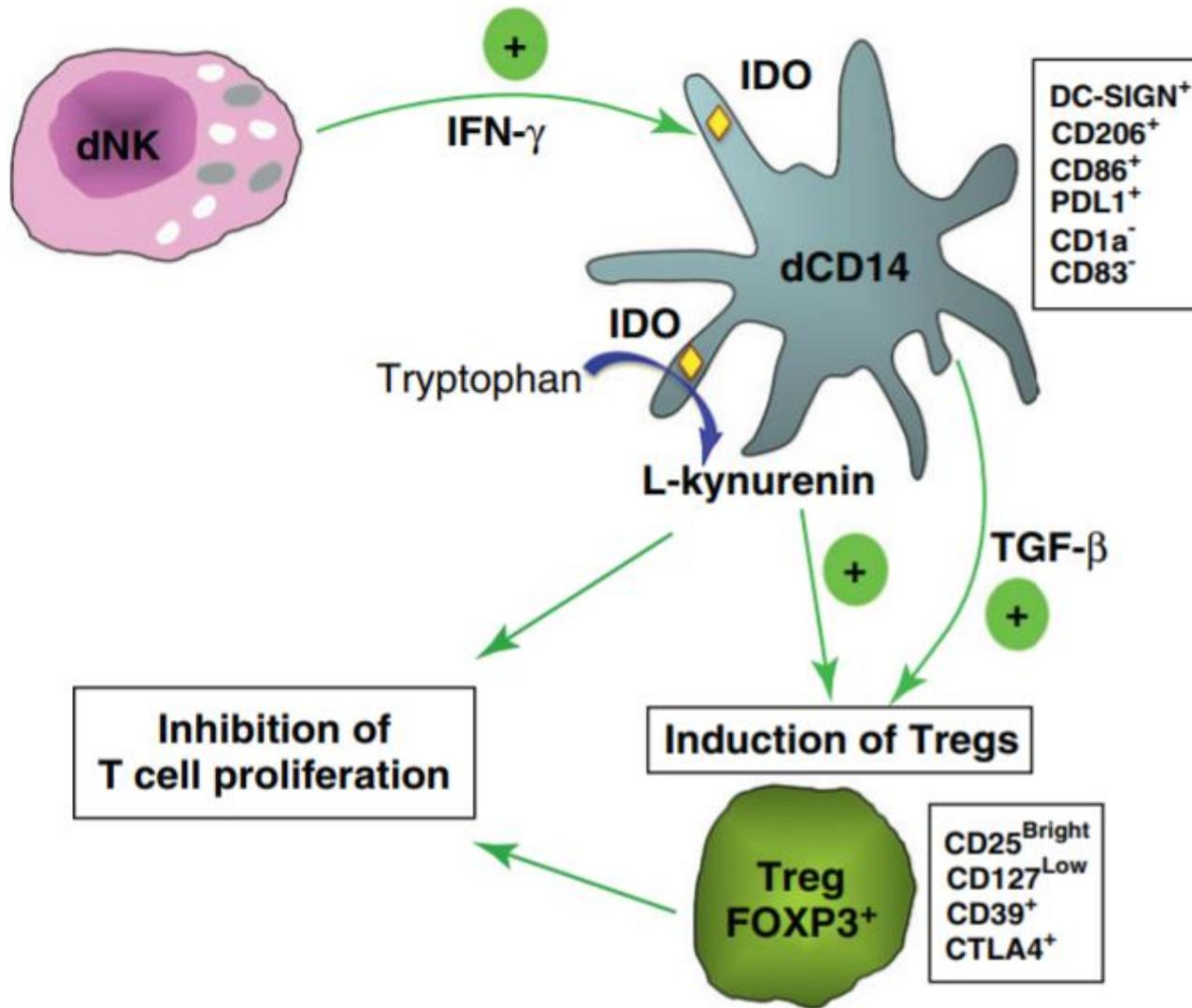
IL-4
IL-10

Heart invasion

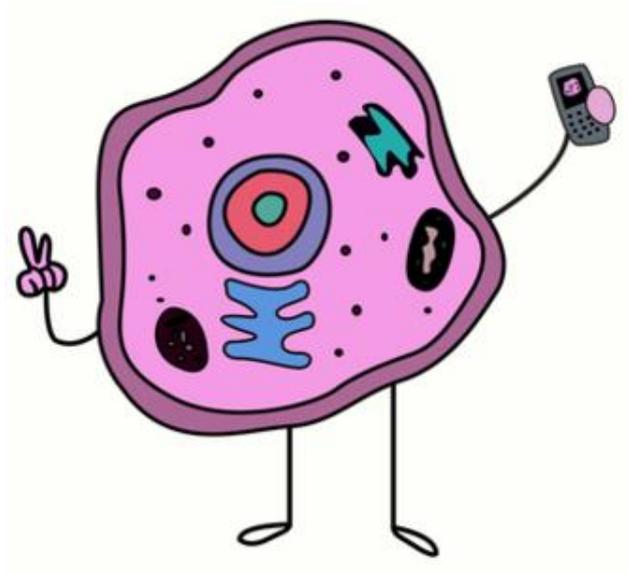








For any questions:



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