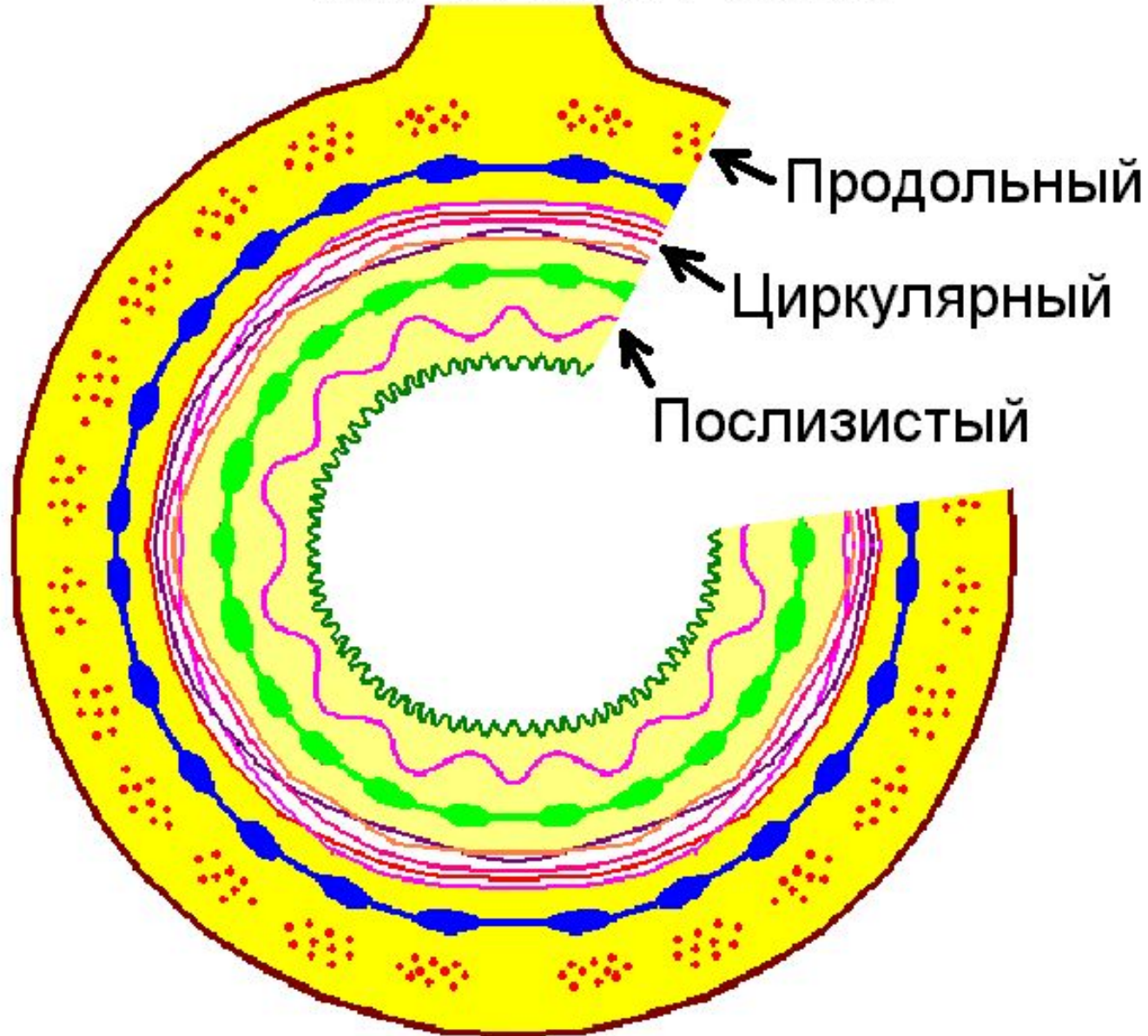
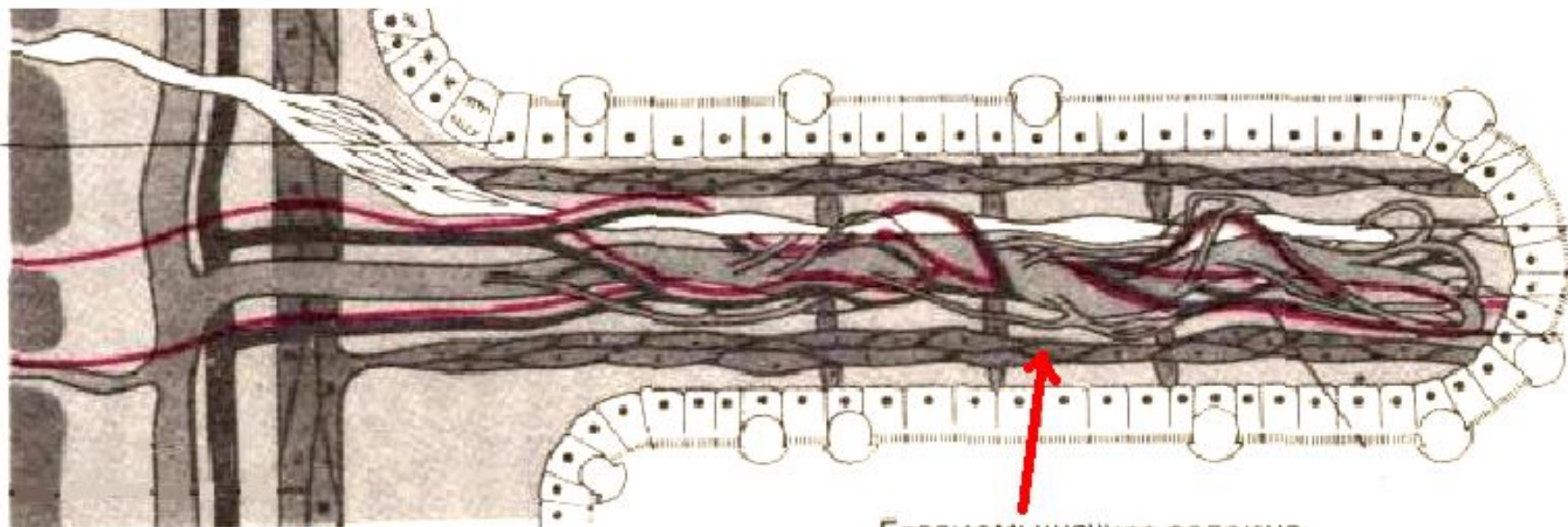


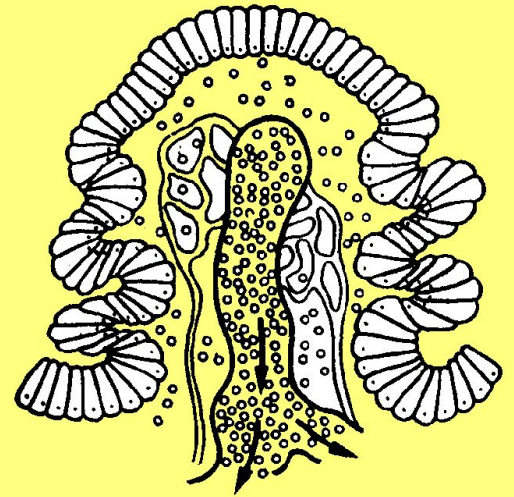
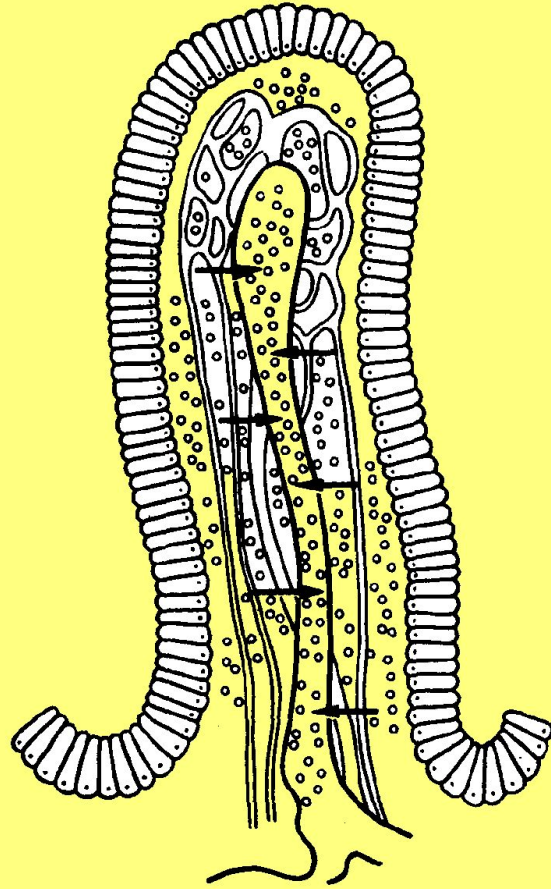
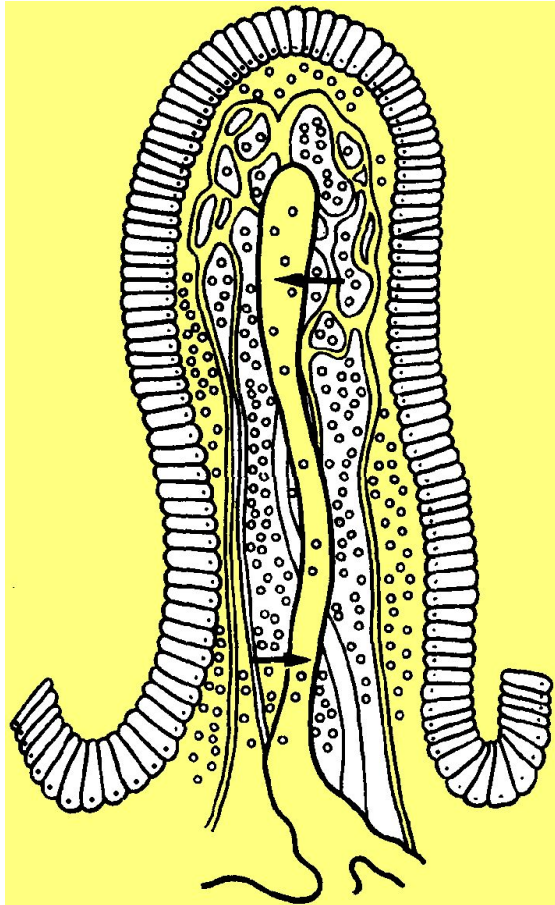
МЫШЕЧНЫЕ СЛОИ

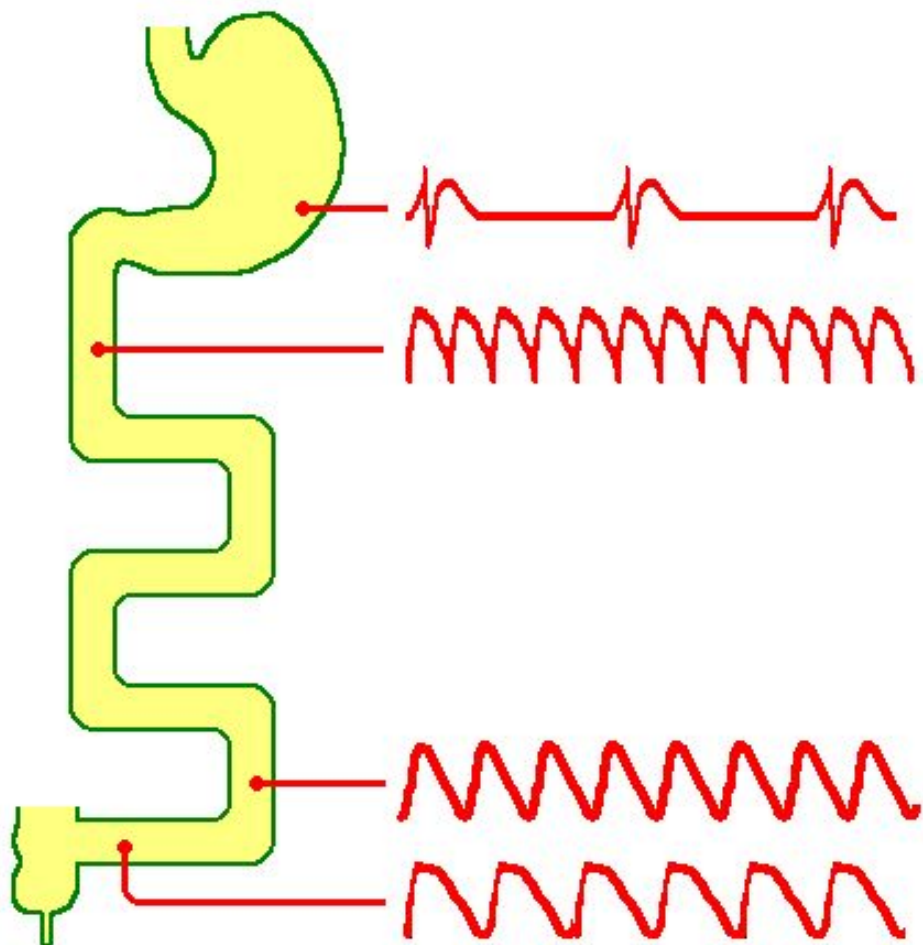




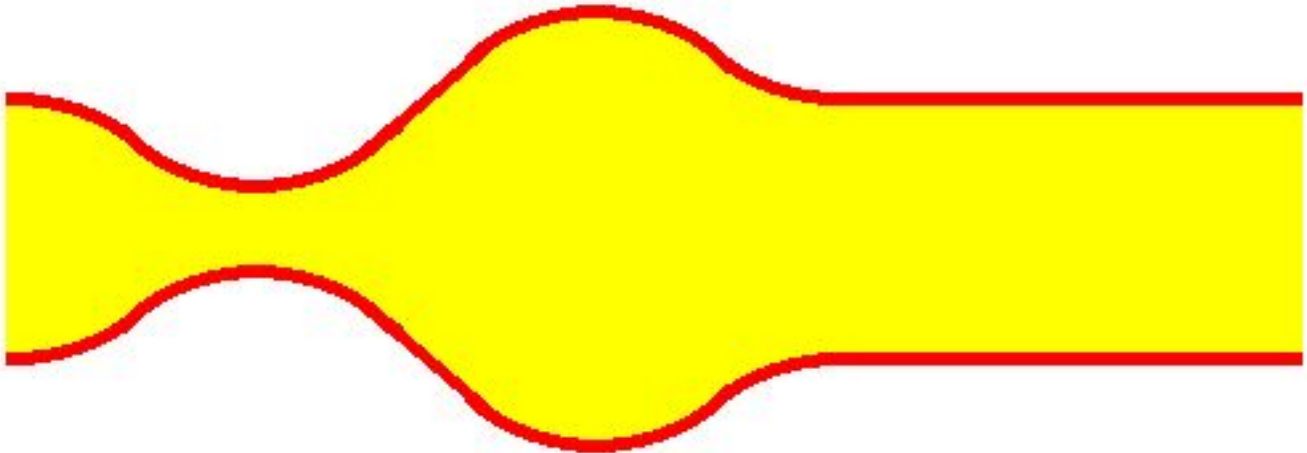
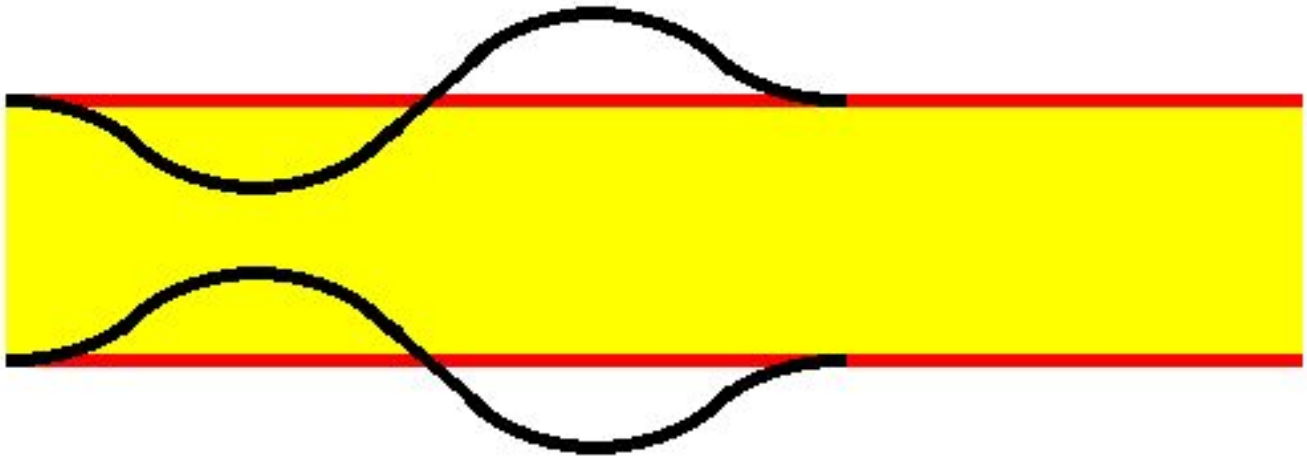
Мышечная пластинка
слизистой оболочки

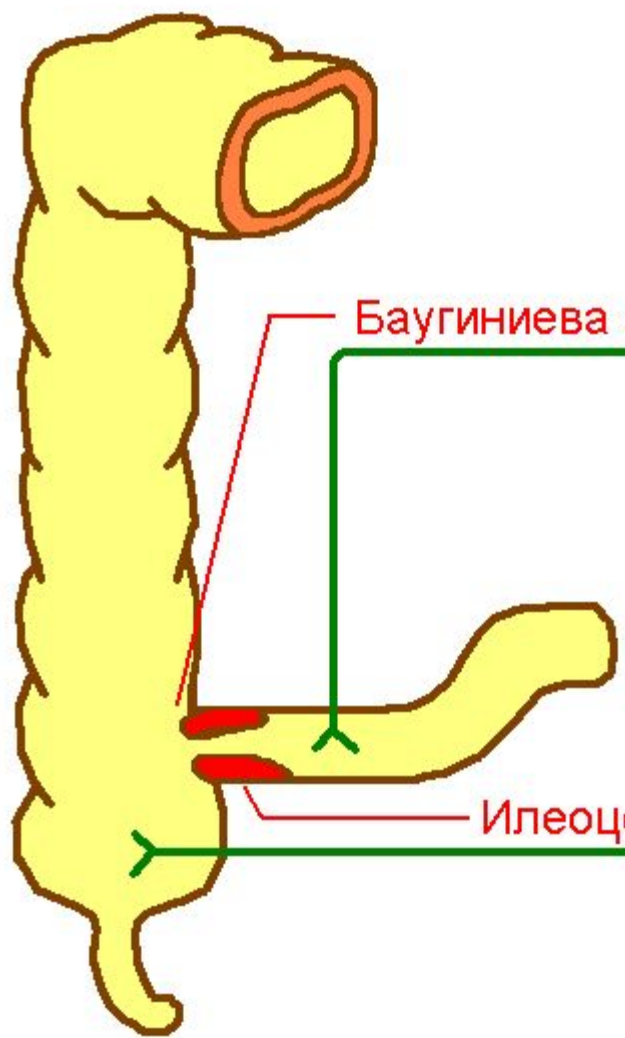
Гладкомышечное волокно





- Градиент
основного
миоэлектрического
ритма

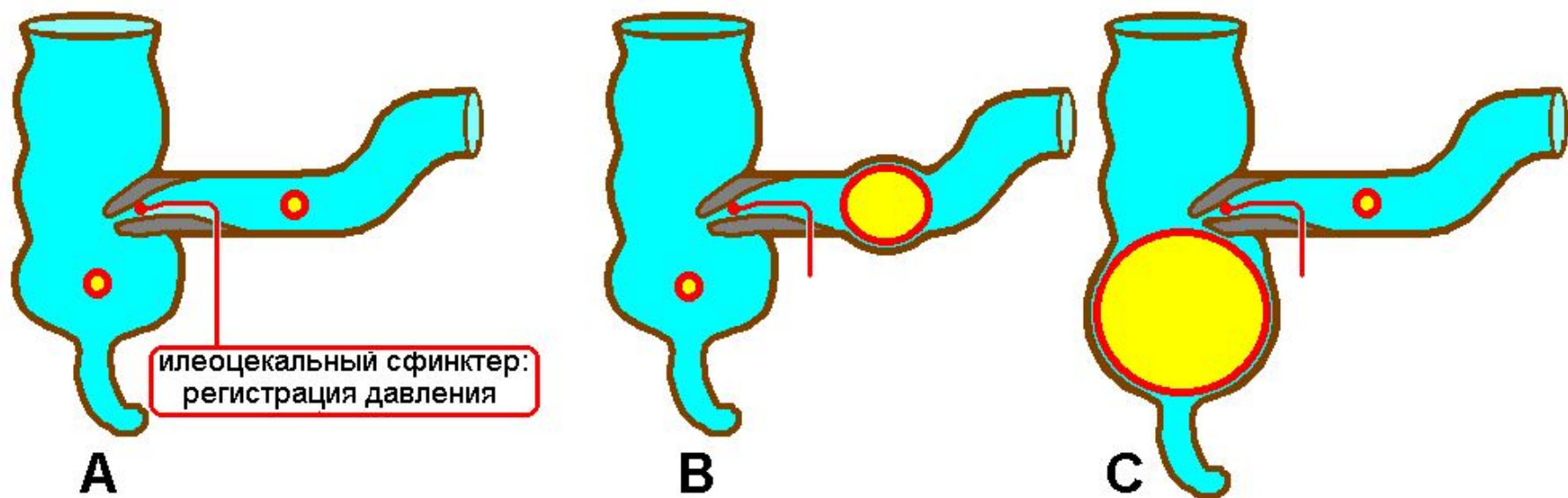




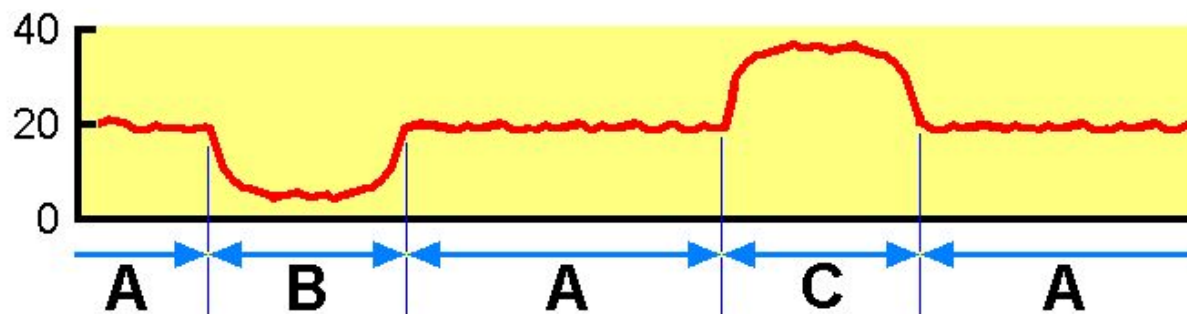
Баугиниева заслонка

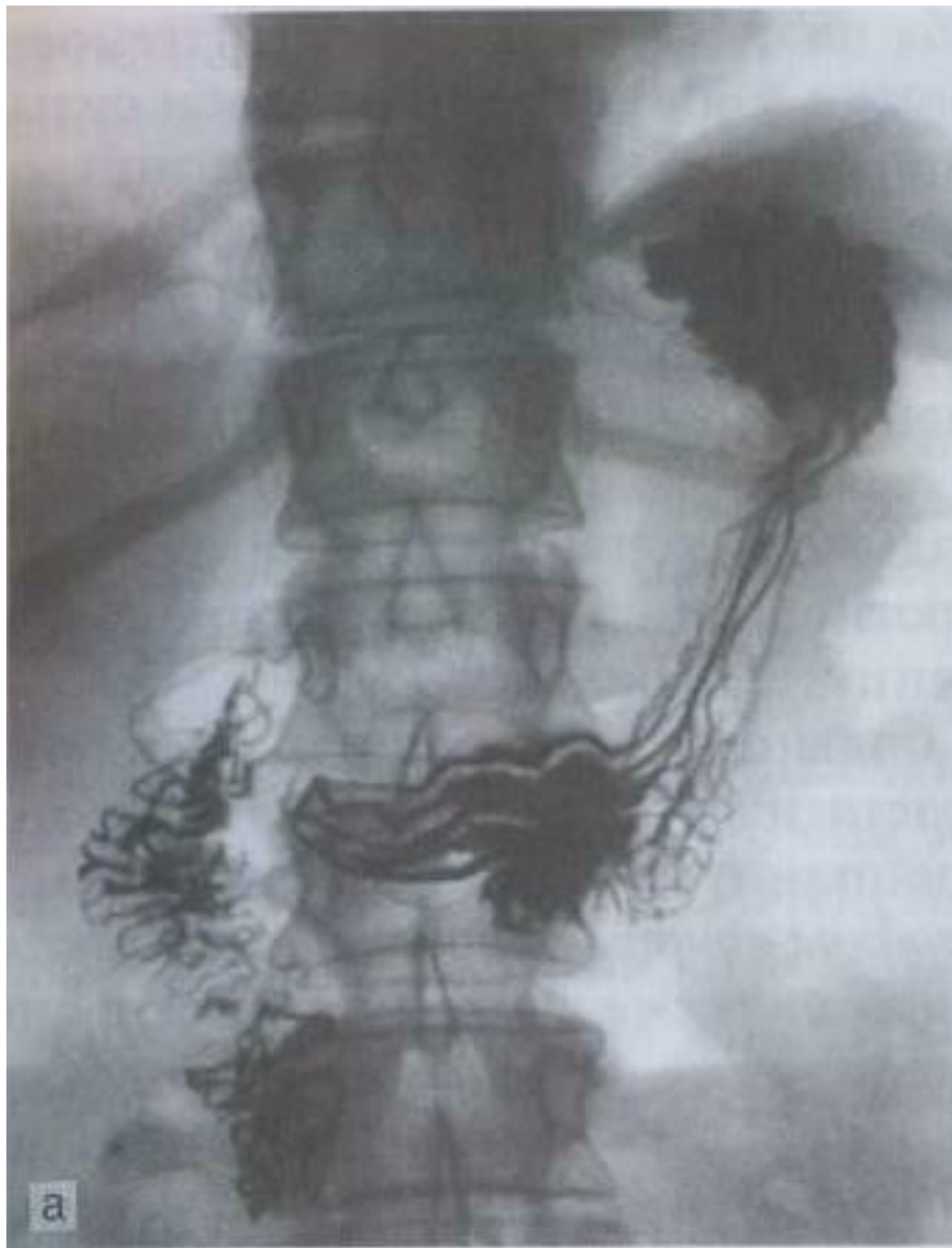
Илеоцекальный сфинктер





● — раздуваемый баллон





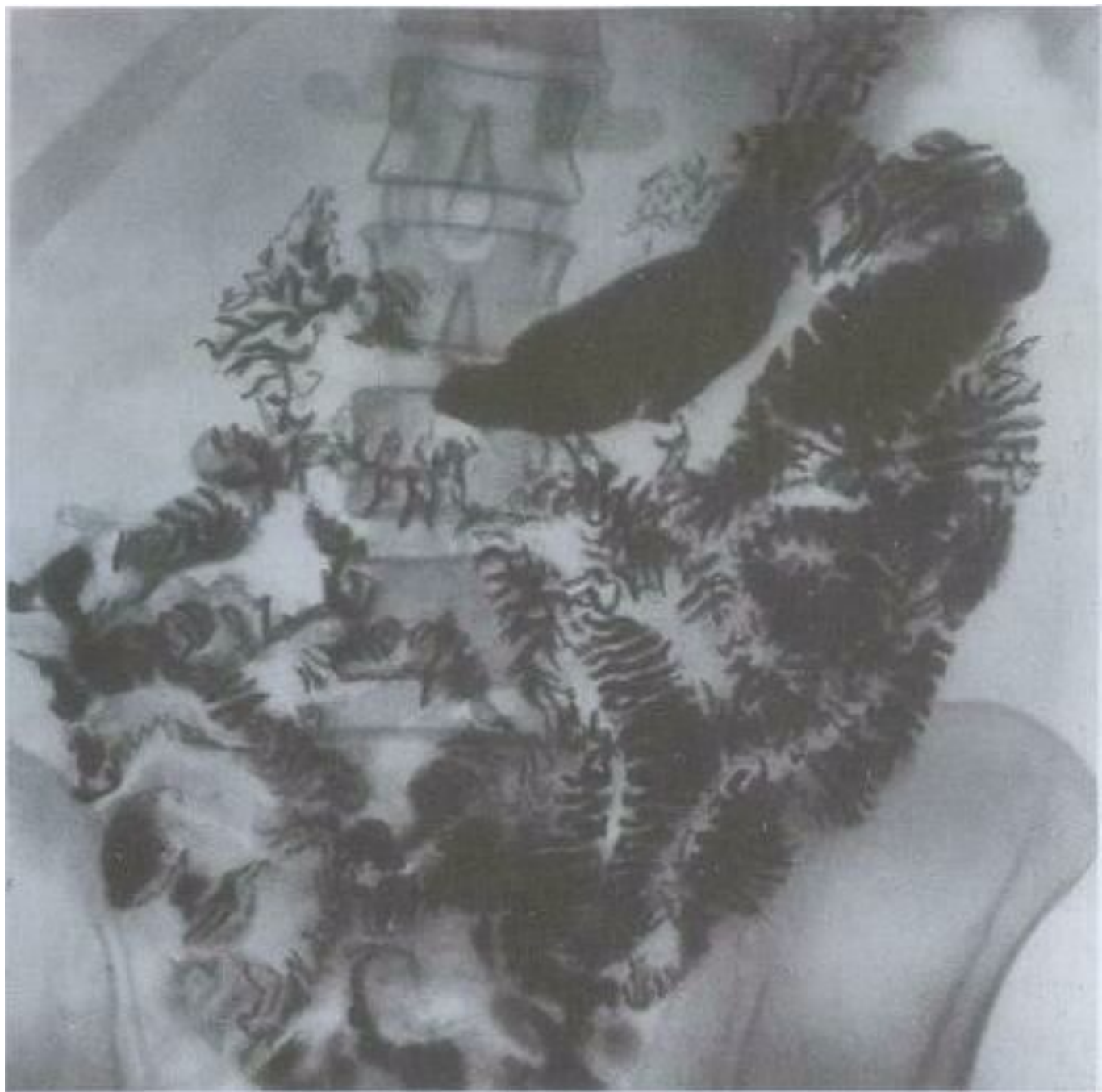
Рентгенограммы
нормальных
желудка и
двенадцати-
перстной
кишки

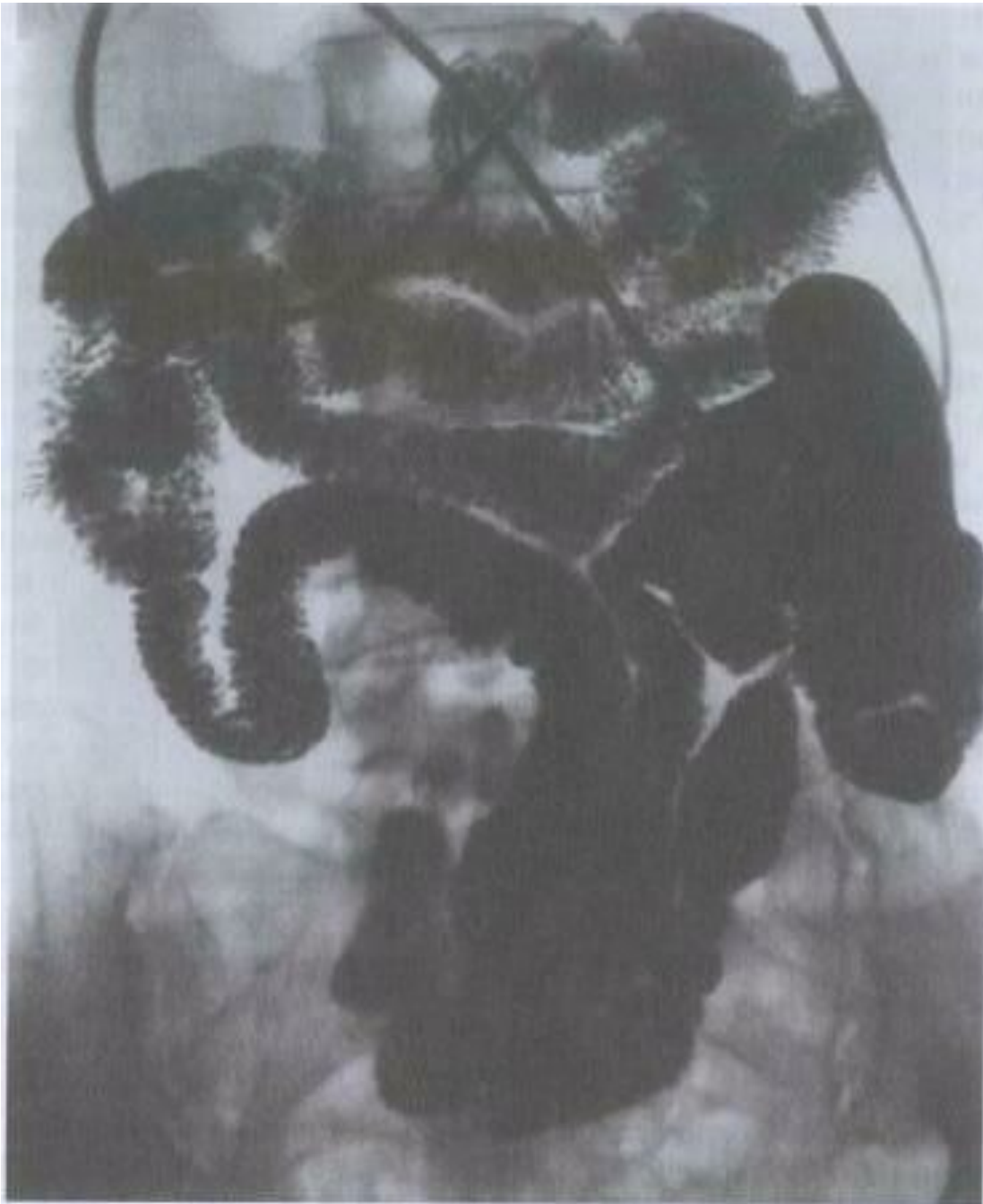
при малом
наполнении



Рентгенограммы
нормальных
желудка и
двенадцати-
перстной
кишки

при тугом
наполнении



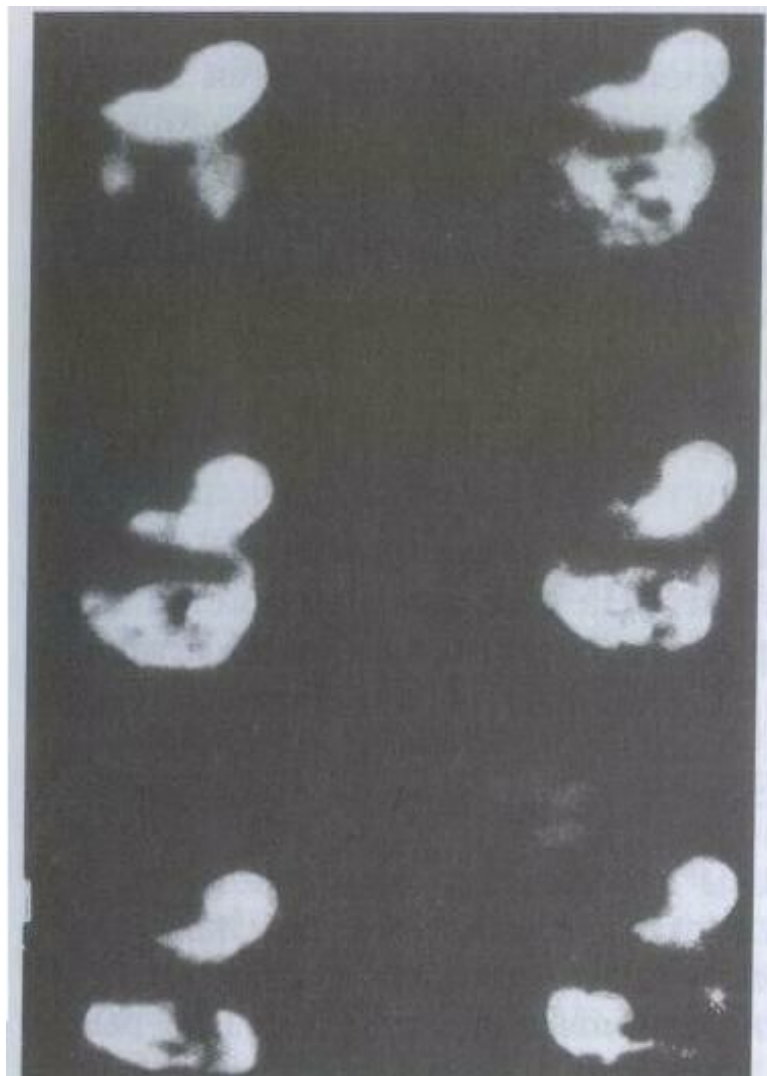


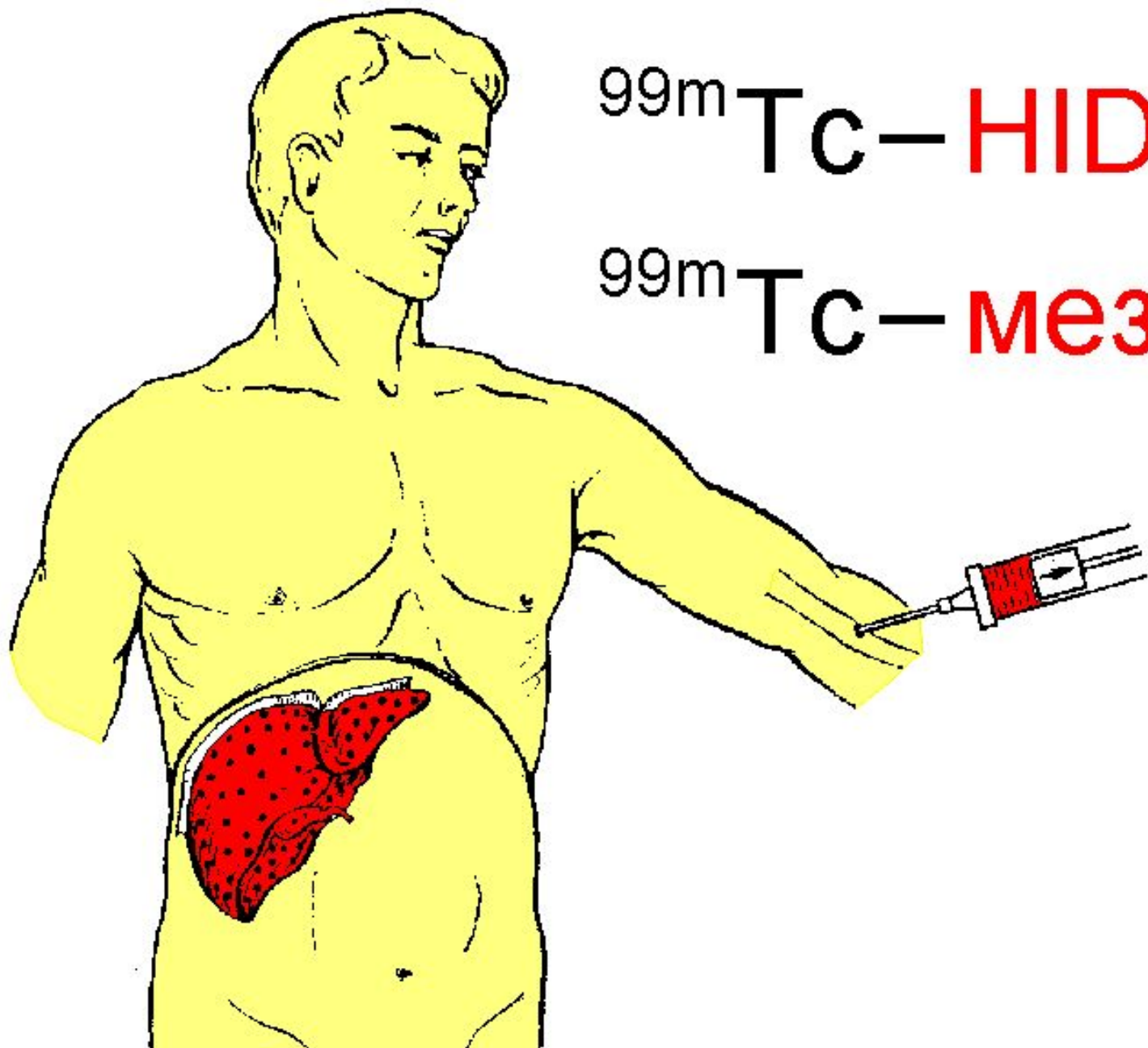
Чреззондовая
энтерография



Исследование на
гамма-камере
(сцинтиграфия)

Эвакуация «меченого» завтрака из желудка в двенадцатиперстную и тощую кишку

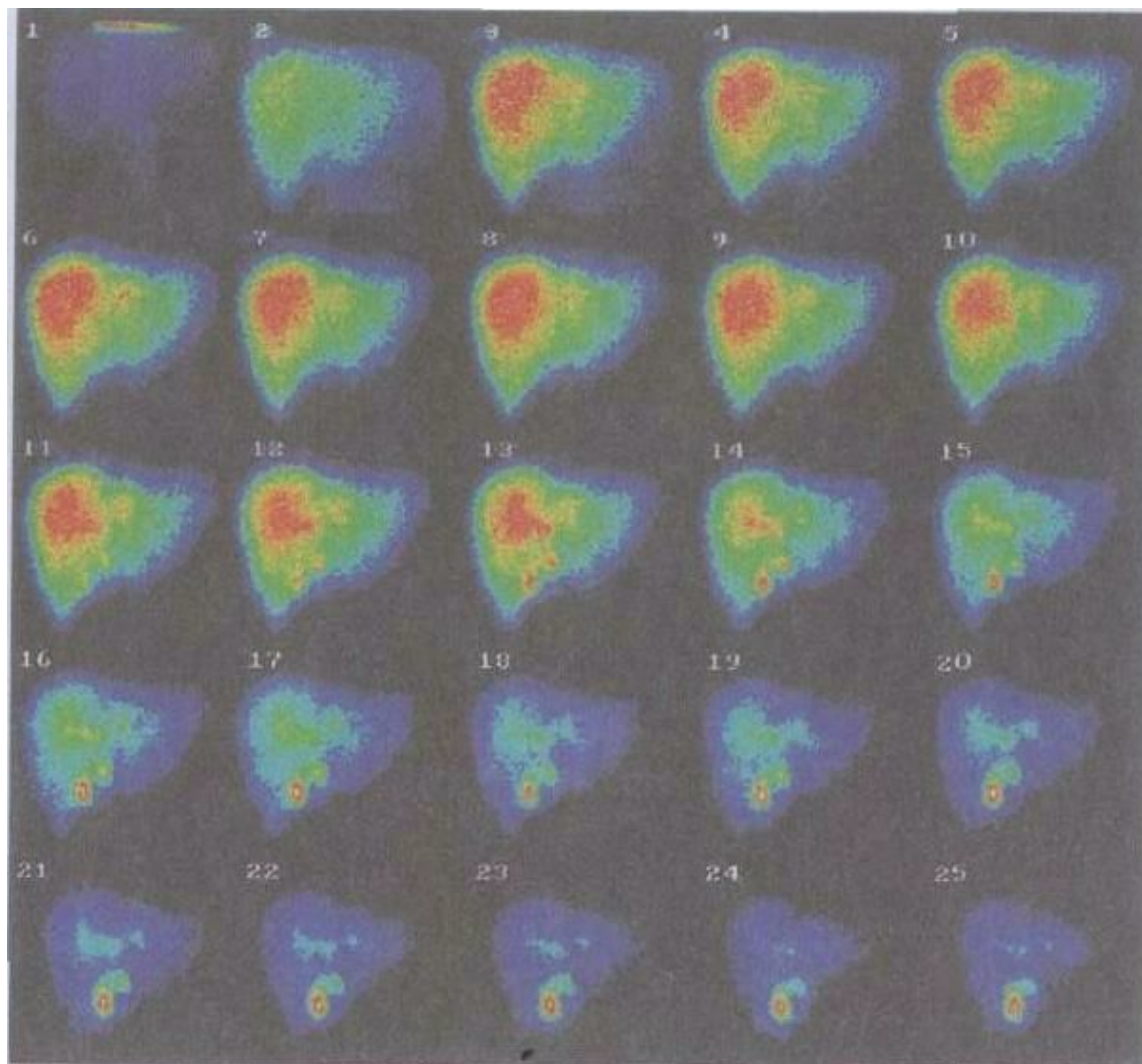


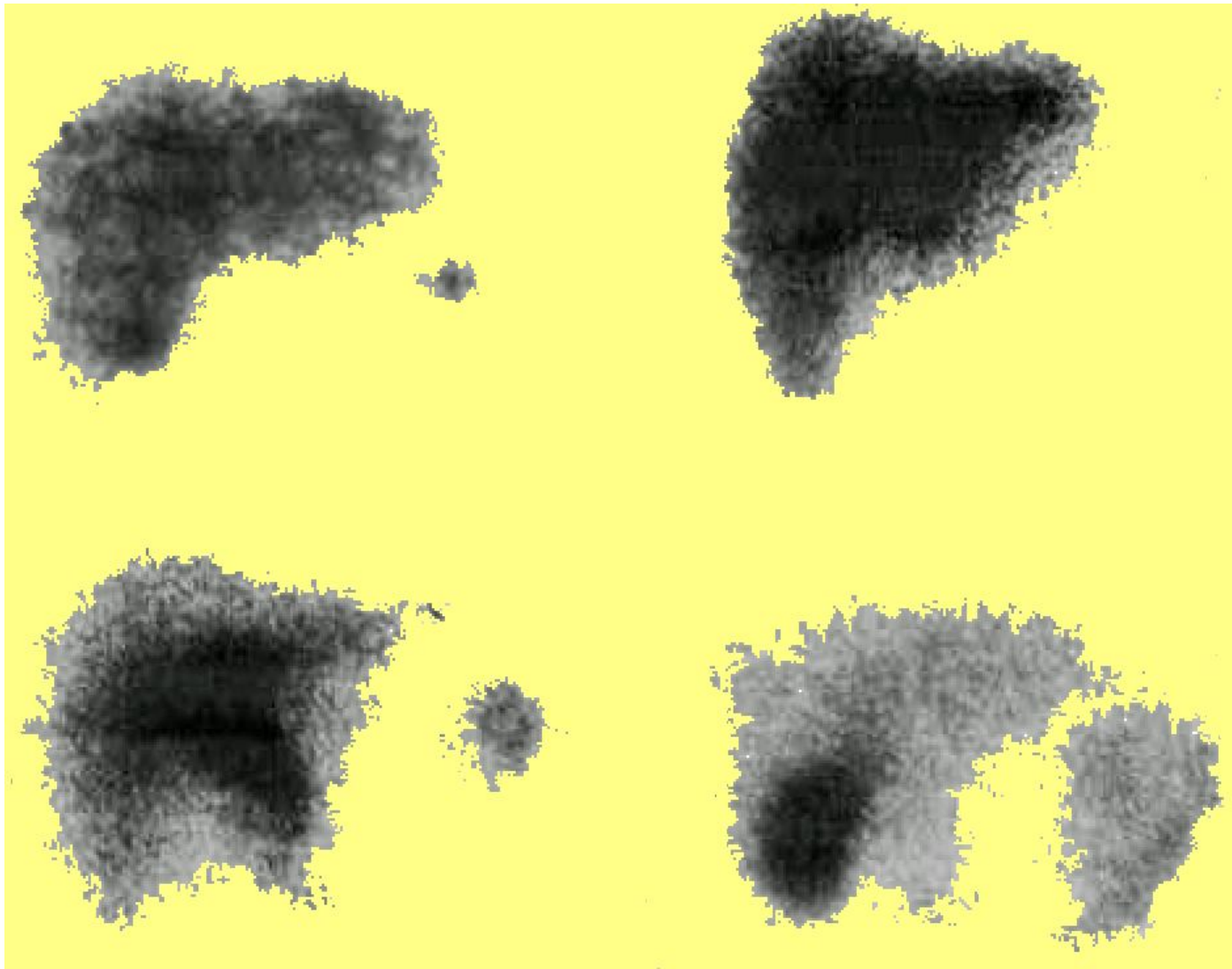


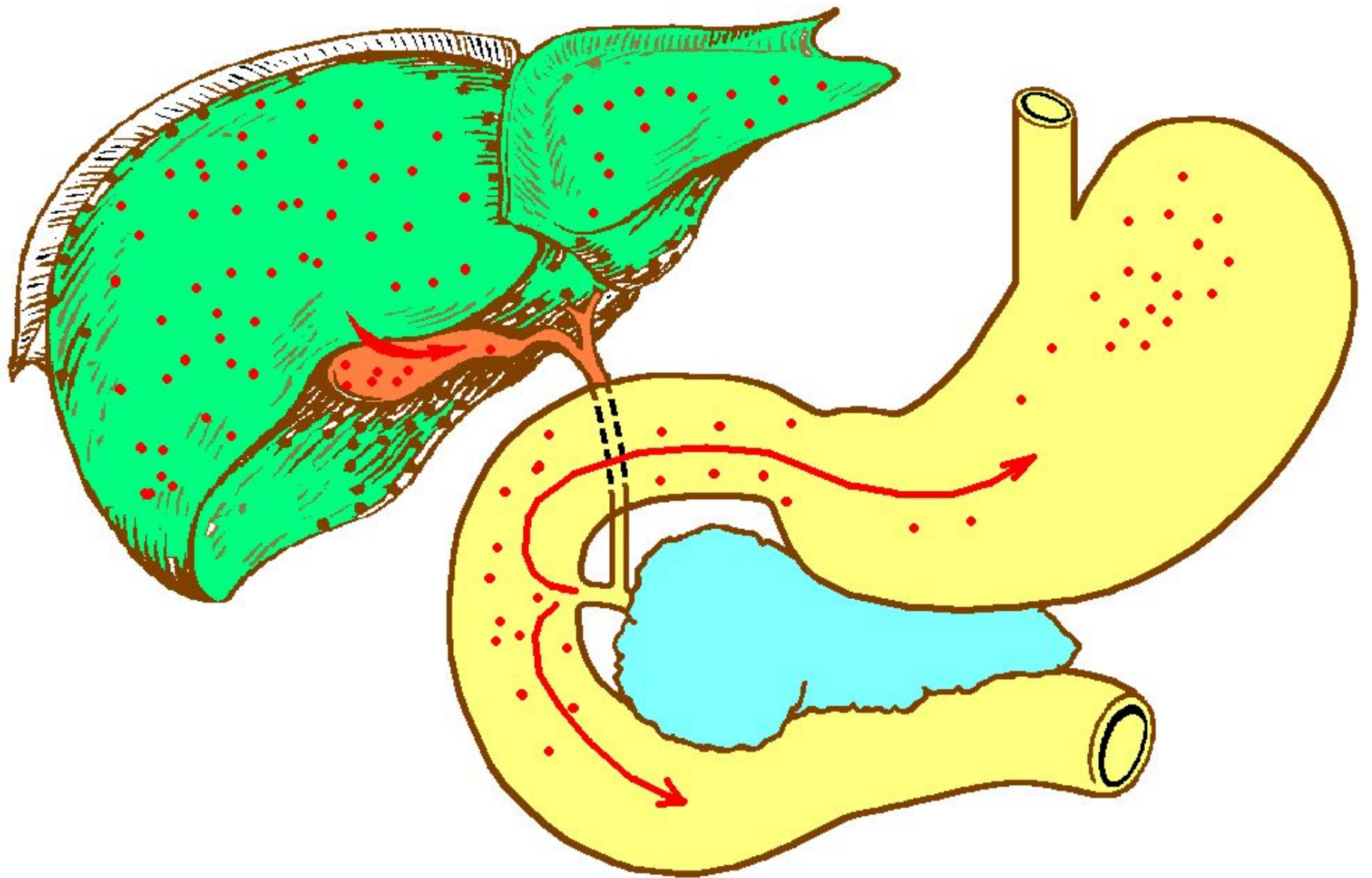
^{99m}Tc —HIDA

^{99m}Tc —мезида

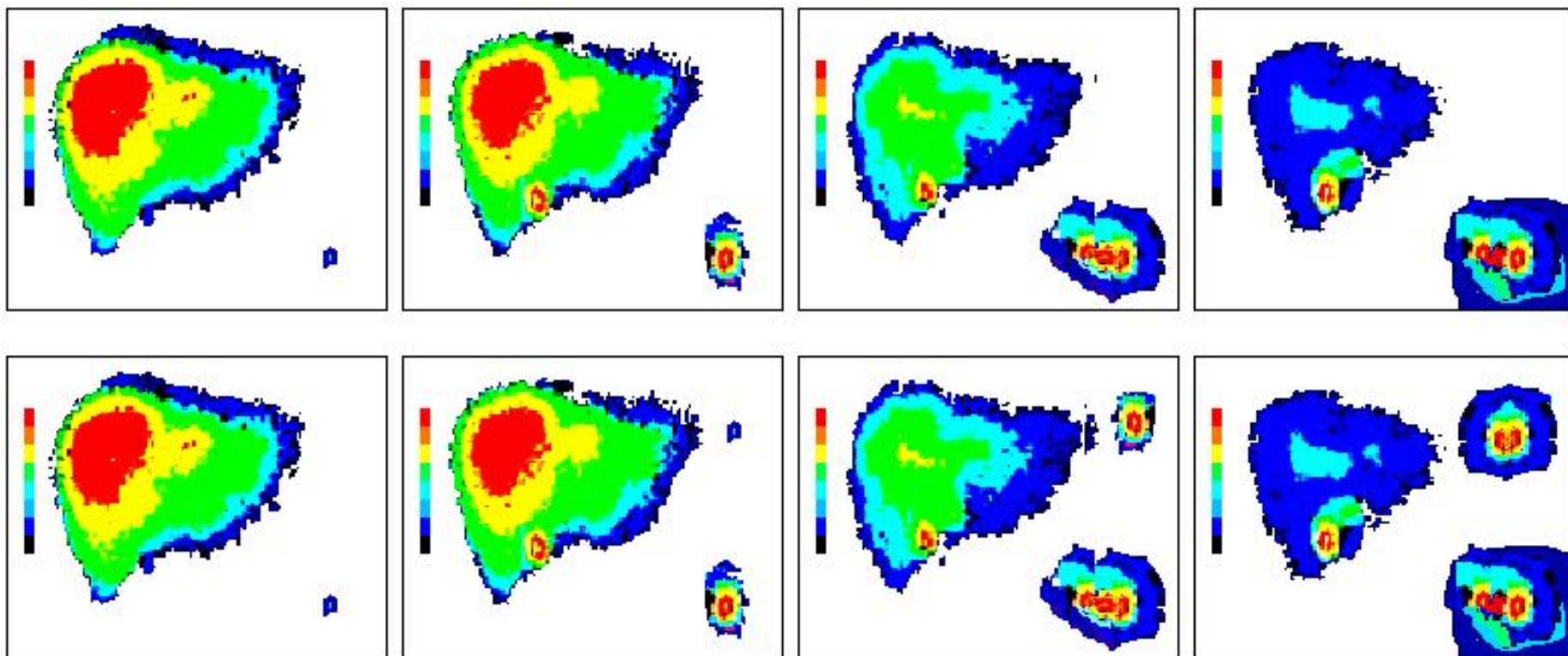
Динамическая сцинтиграфия печени и желчных путей







Дуоденогастральный рефлюкс



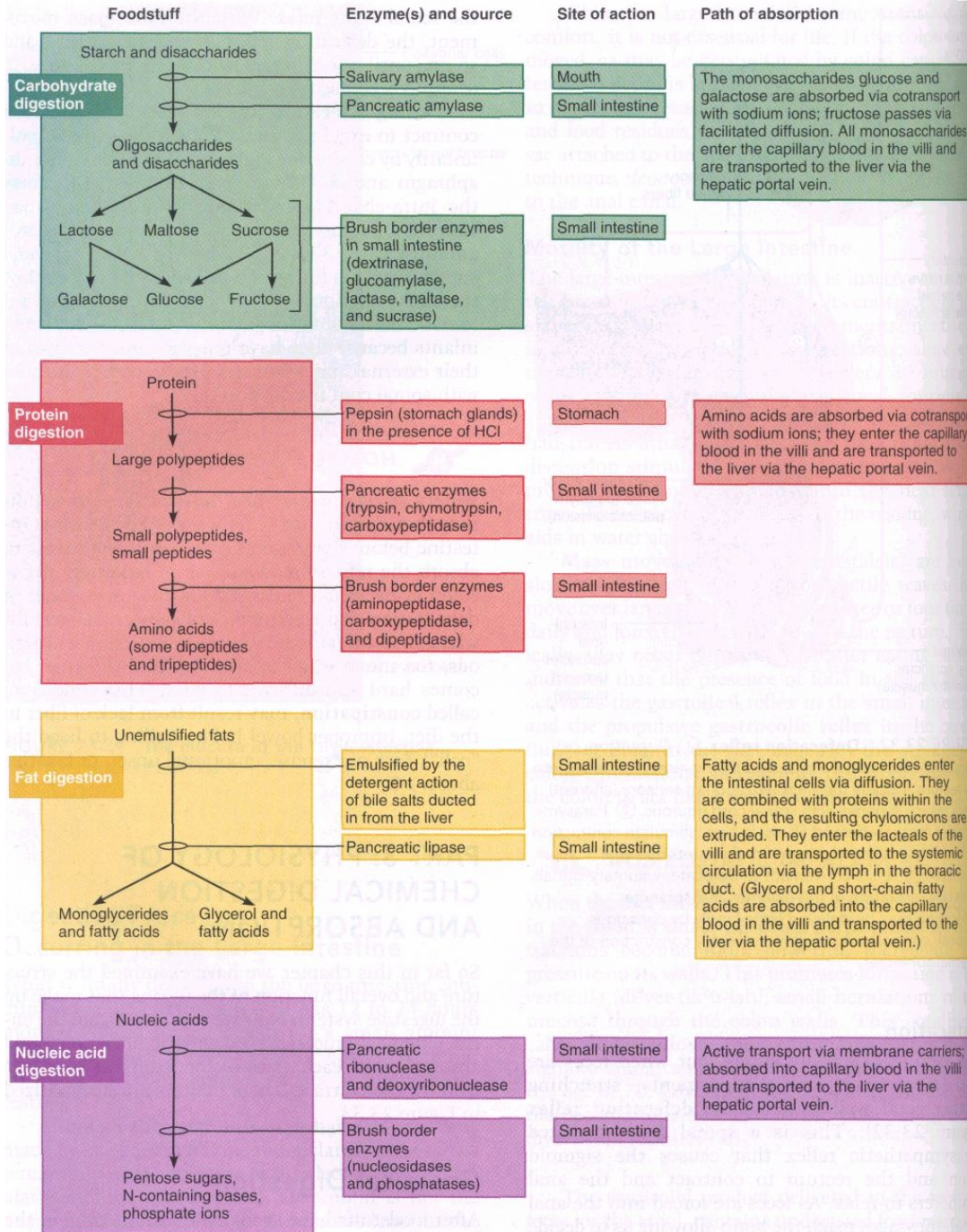
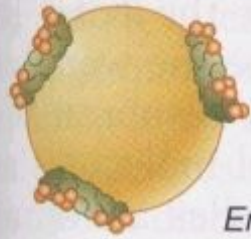


FIGURE 23.33 Flowchart of chemical digestion and absorption of foodstuffs.

Fat globule

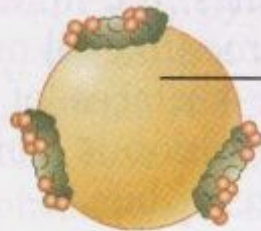
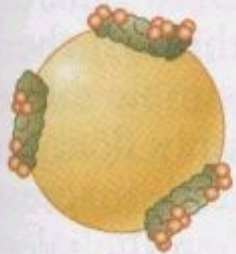


Emulsification

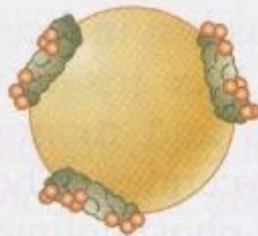
Nonpolar region

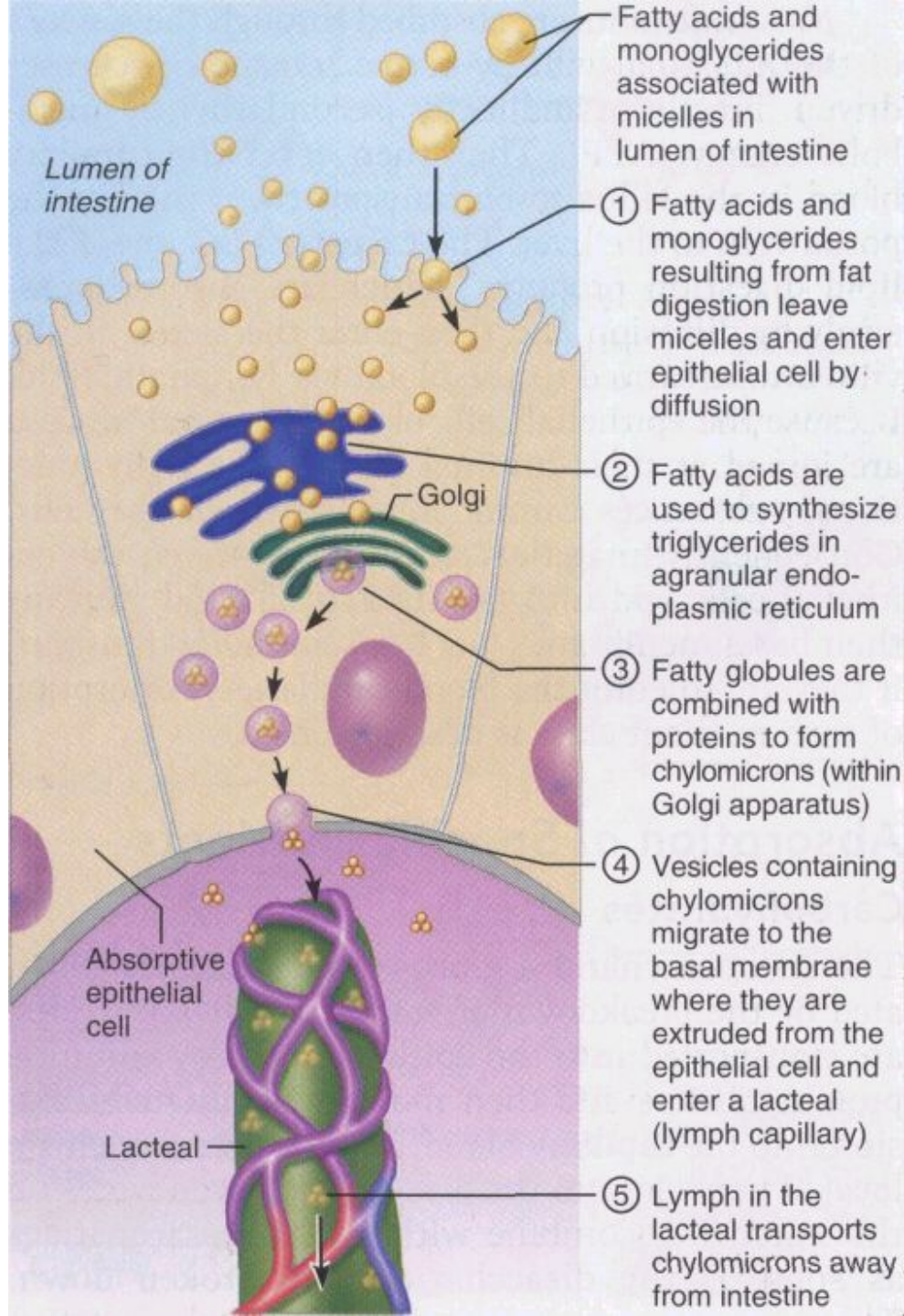
Bile salt

Polar (charged) regions



Fat droplets coated with bile salts are suspended in water





Fatty acids and monoglycerides associated with micelles in lumen of intestine

Lumen of intestine

① Fatty acids and monoglycerides resulting from fat digestion leave micelles and enter epithelial cell by diffusion

② Fatty acids are used to synthesize triglycerides in agranular endoplasmic reticulum

③ Fatty globules are combined with proteins to form chylomicrons (within Golgi apparatus)

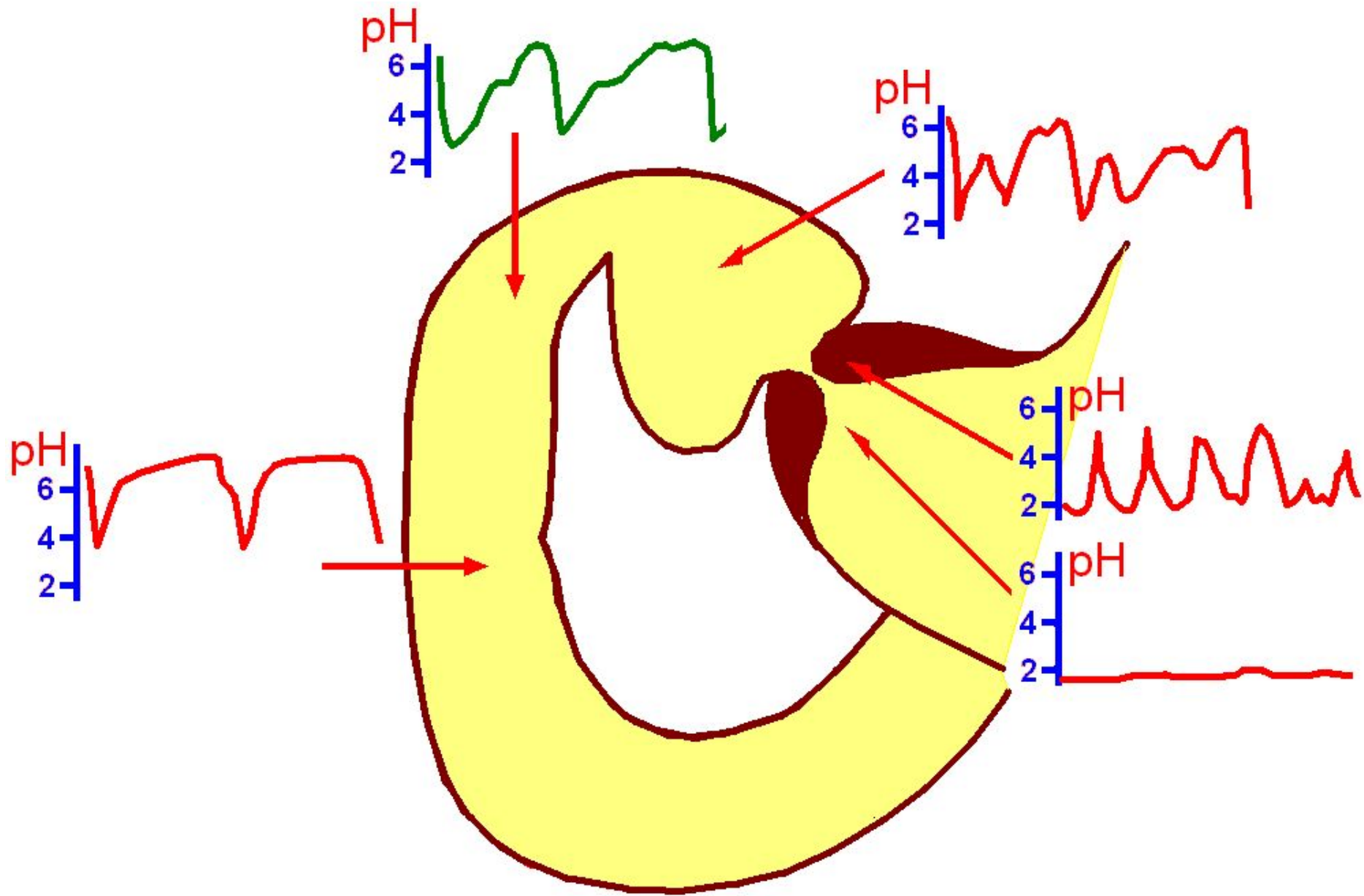
④ Vesicles containing chylomicrons migrate to the basal membrane where they are extruded from the epithelial cell and enter a lacteal (lymph capillary)

⑤ Lymph in the lacteal transports chylomicrons away from intestine

Golgi

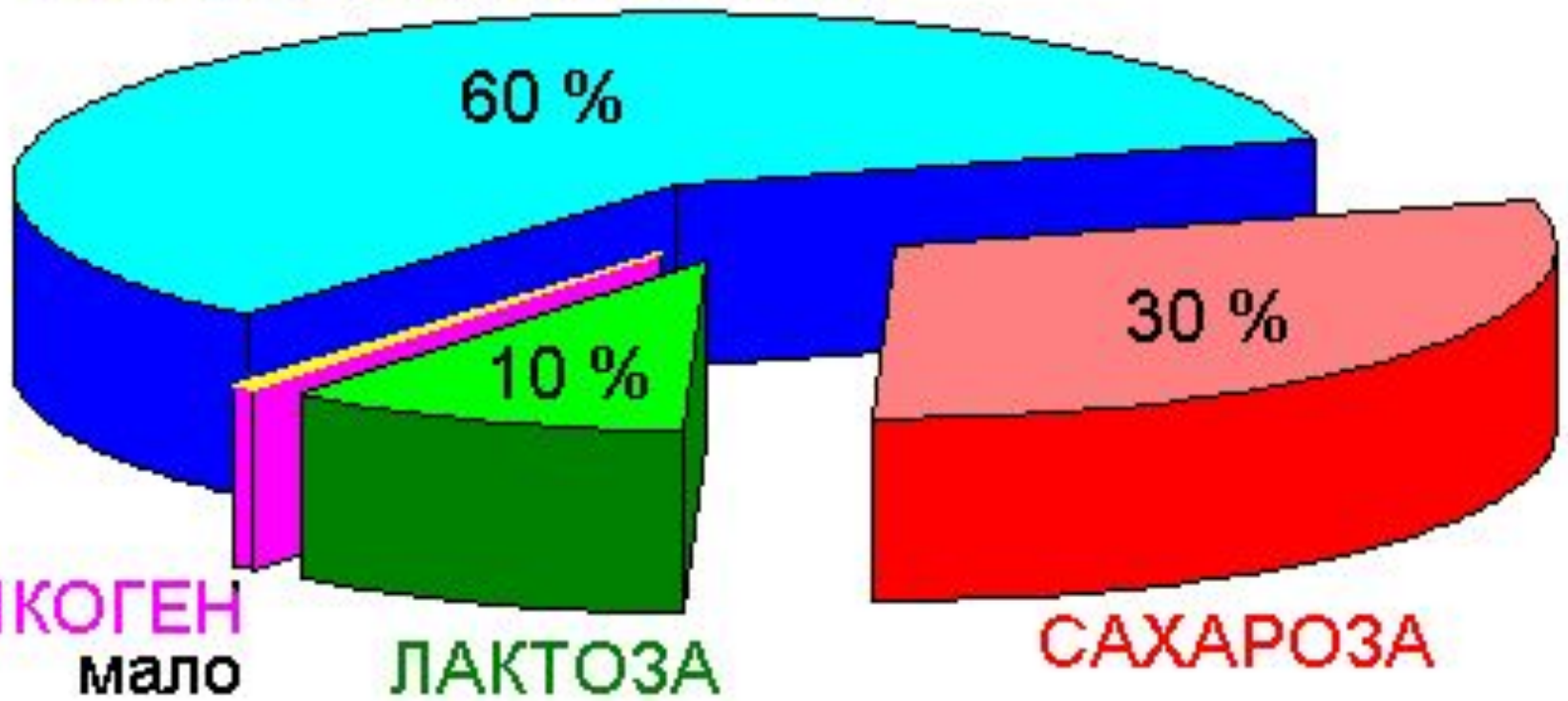
Absorptive epithelial cell

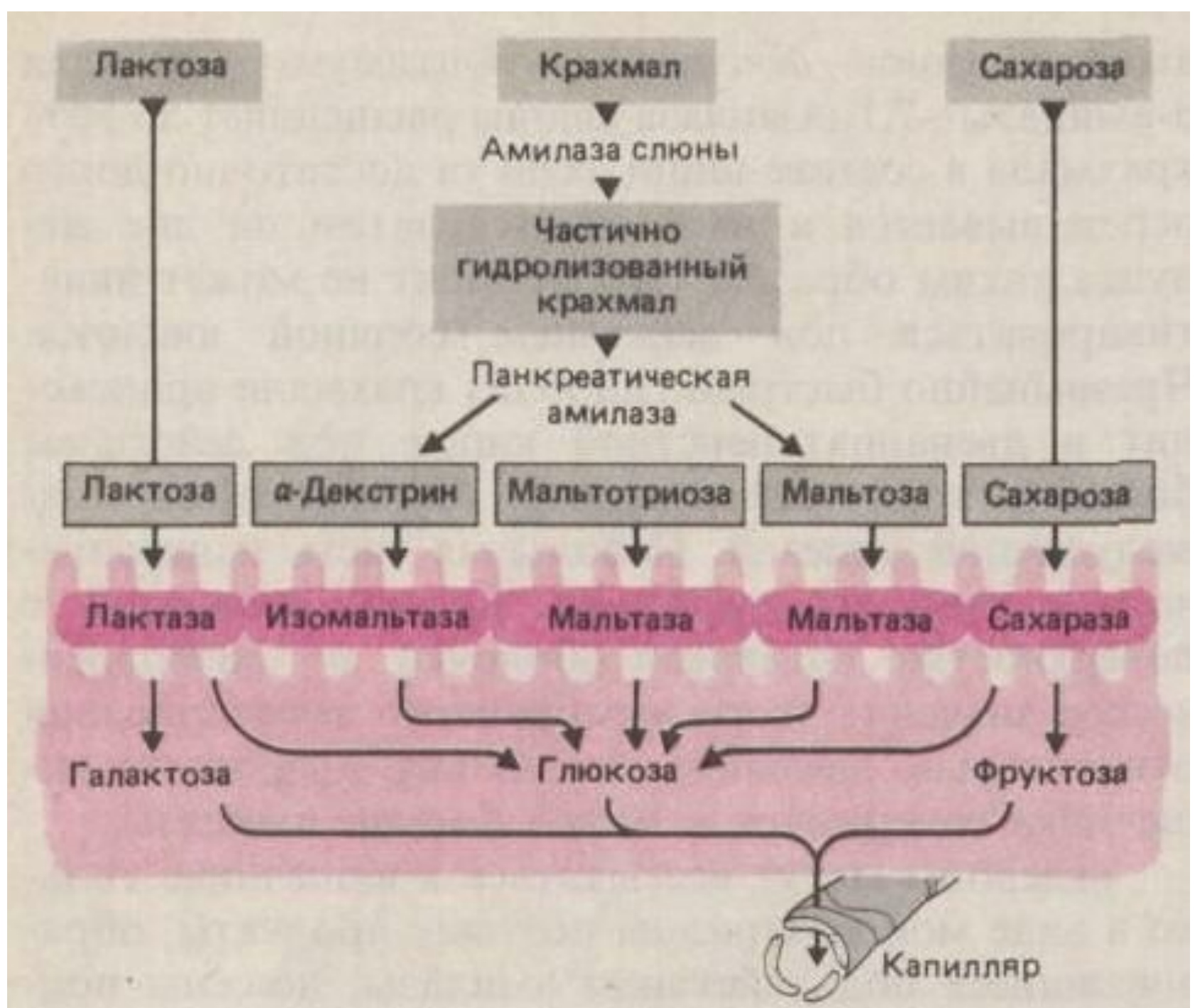
Lacteal

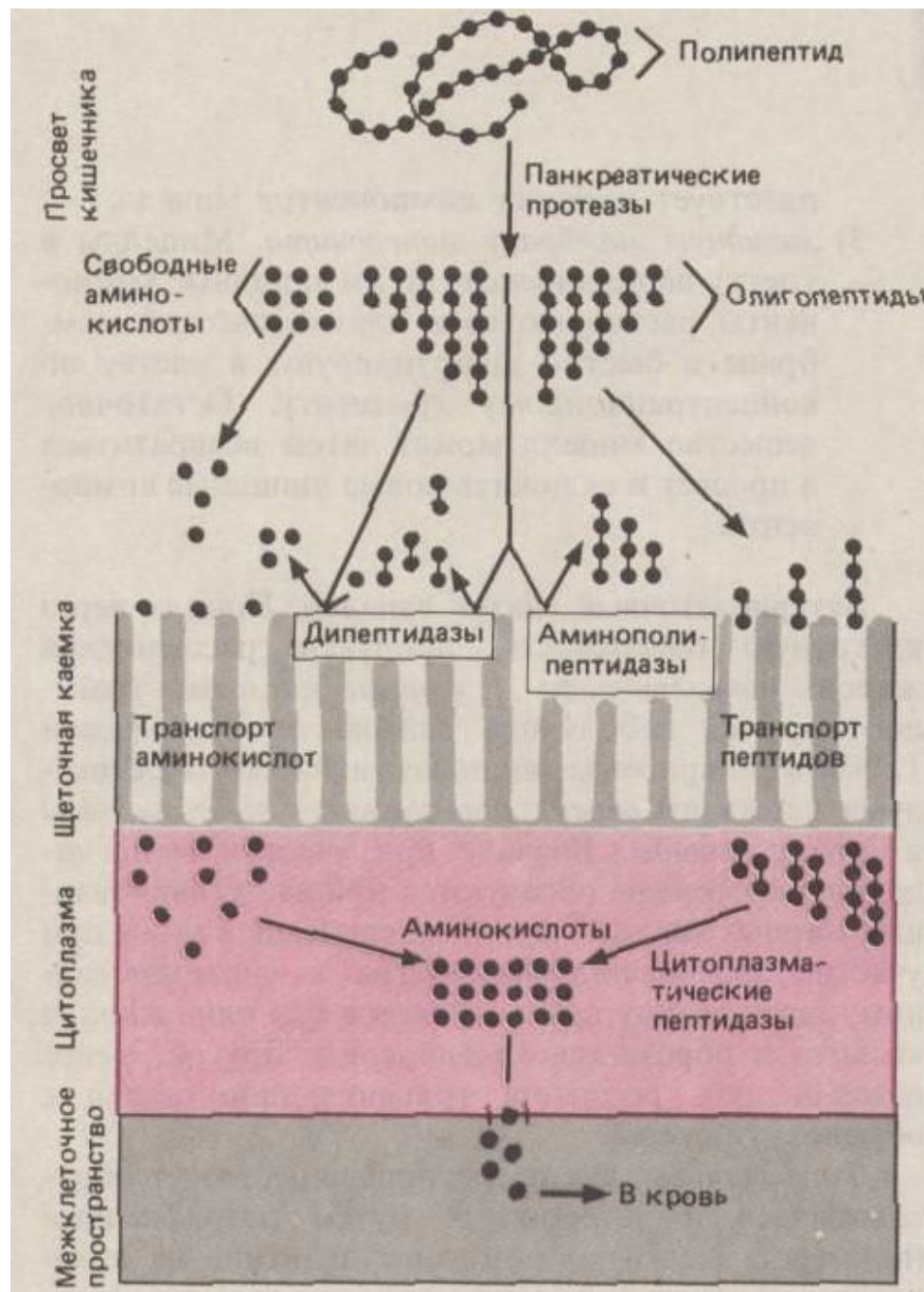


Гидролиз углеводов в тонкой кишке

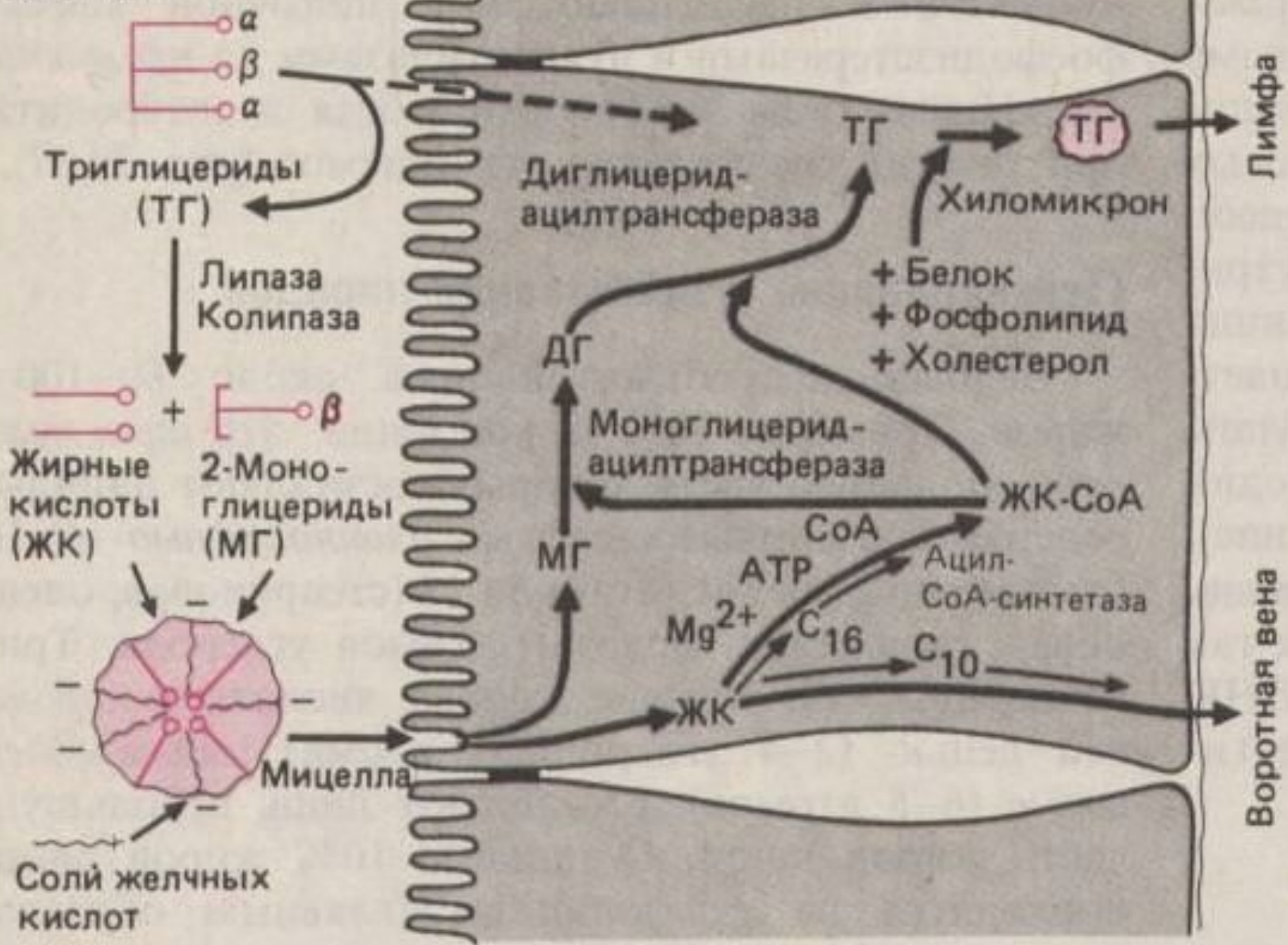
КРАХМАЛ растительный



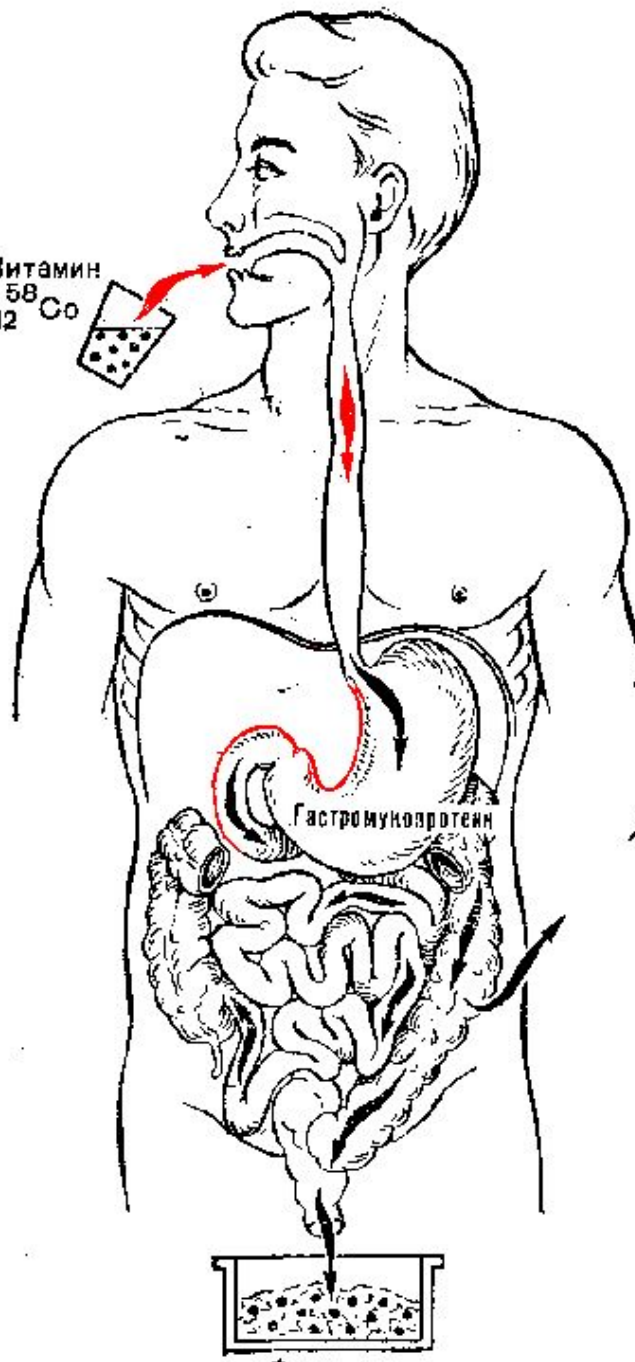




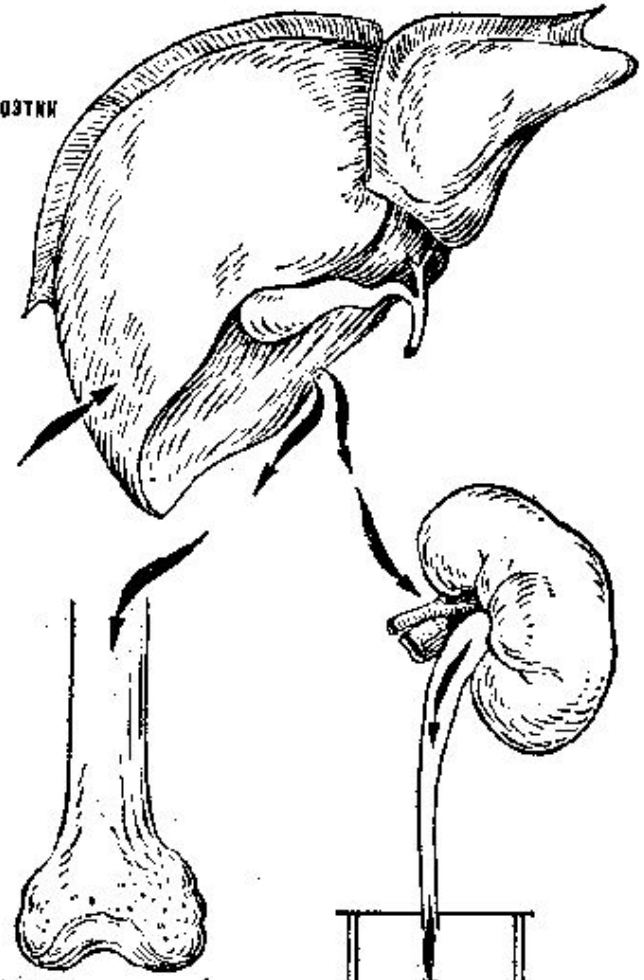
Просвет кишечника Среднецепочечные ТГ Клетка слизистой



Витамин
 B_{12}^{58Co}

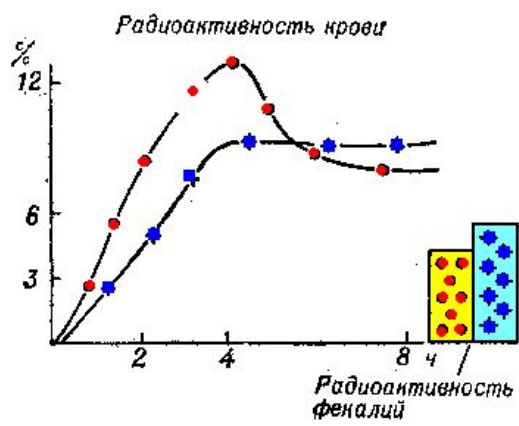
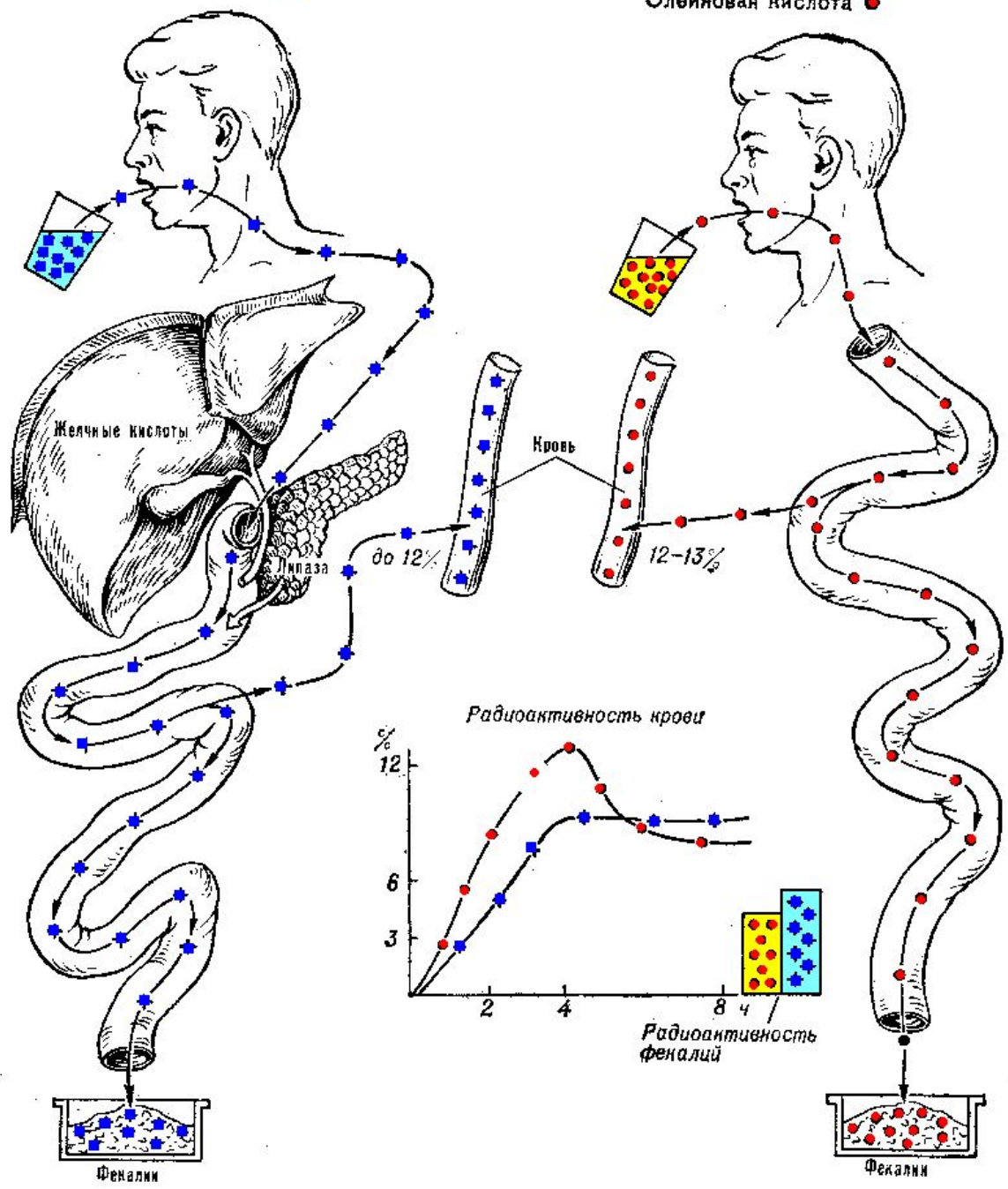


Гемопатки



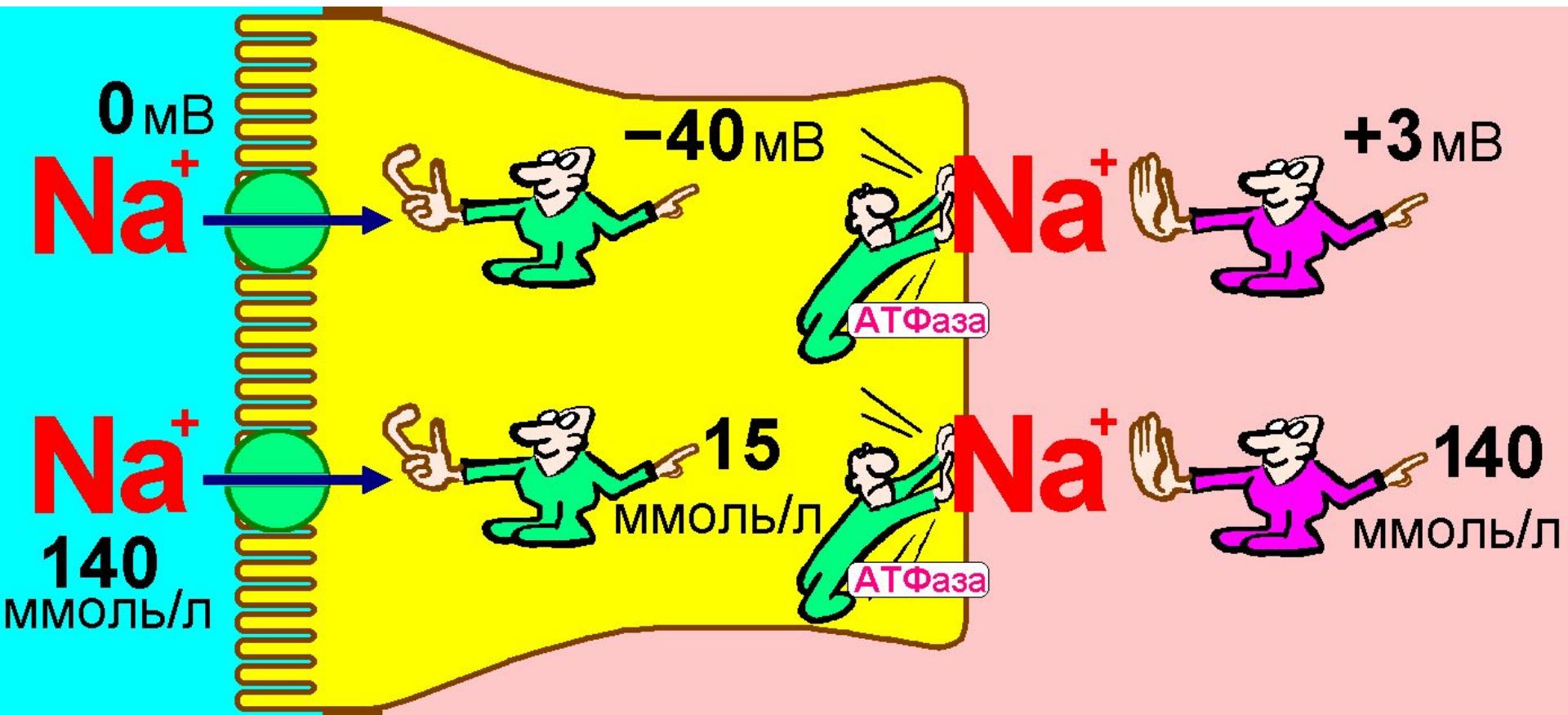
Триолеин +

Олеиновая кислота ●

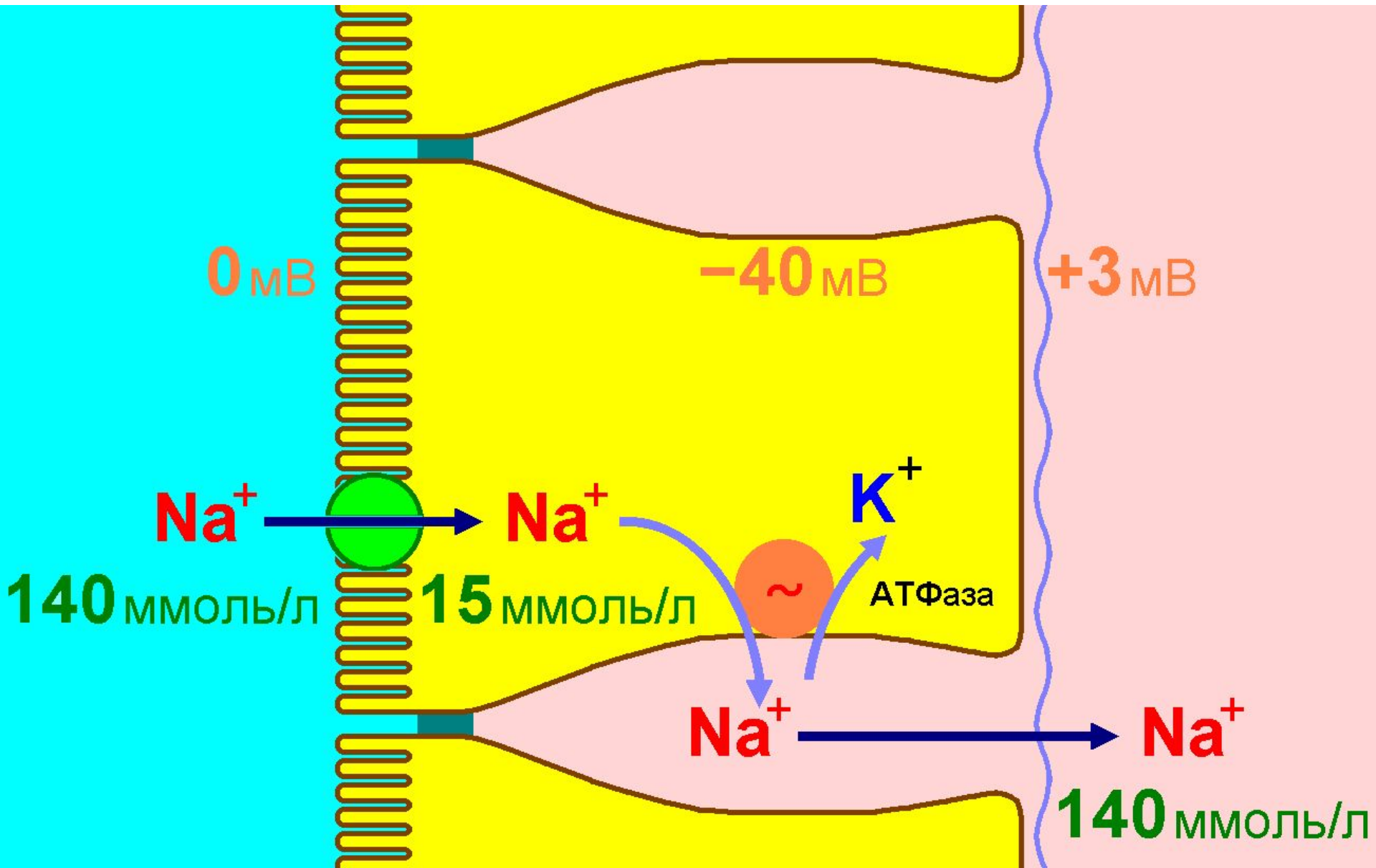


Фекалии

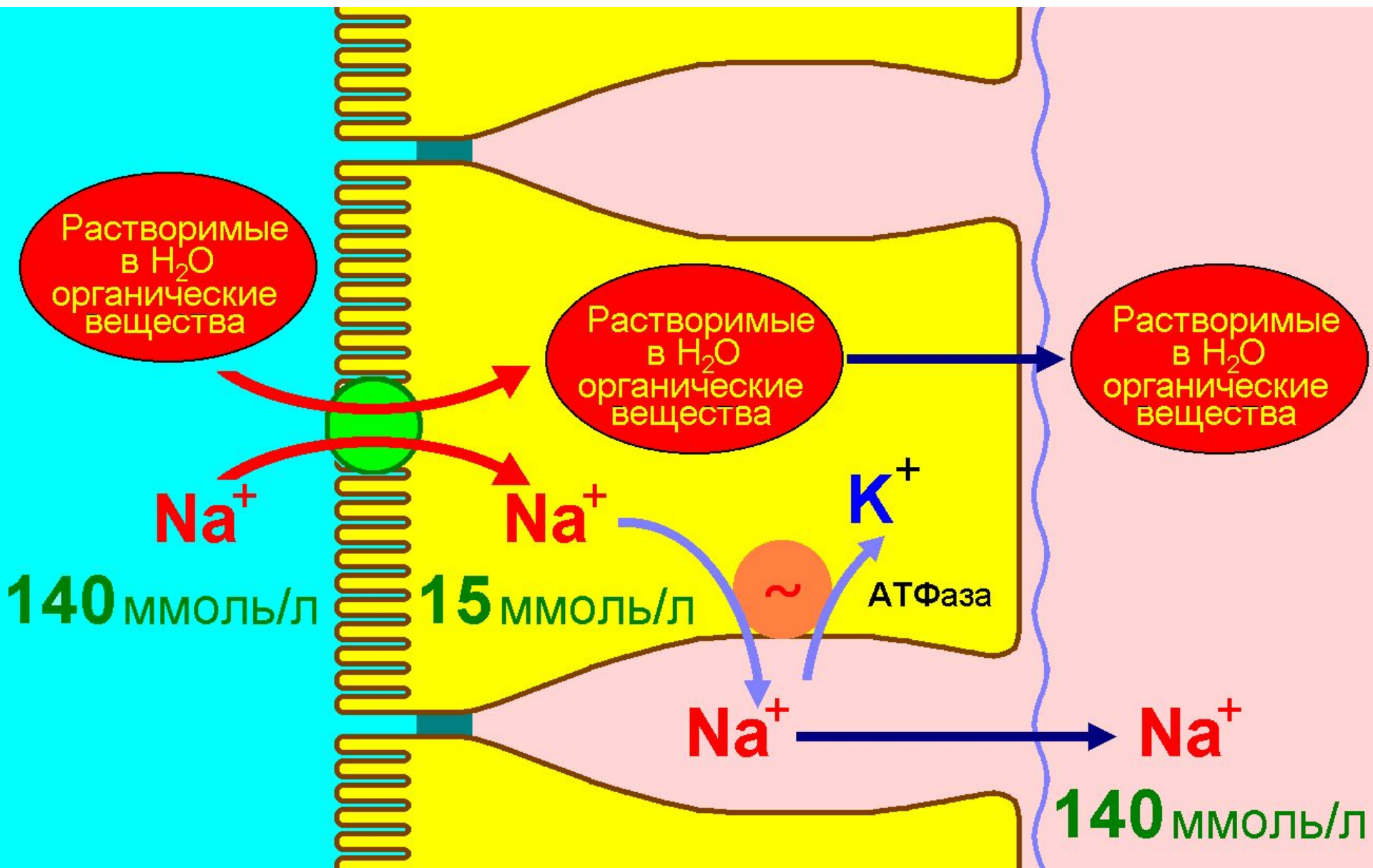
Фекалии



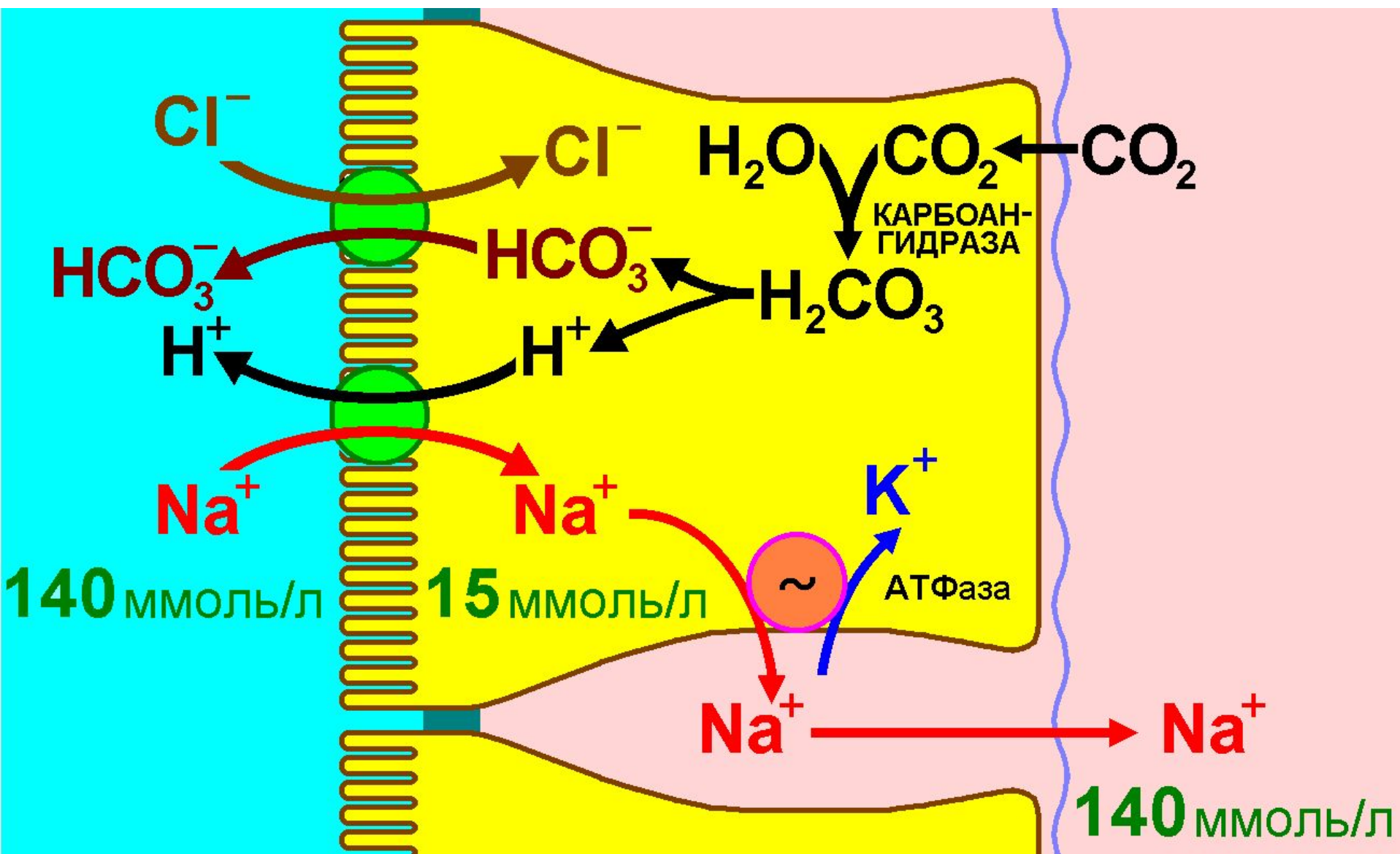
Электрогенный транспорт Na^+



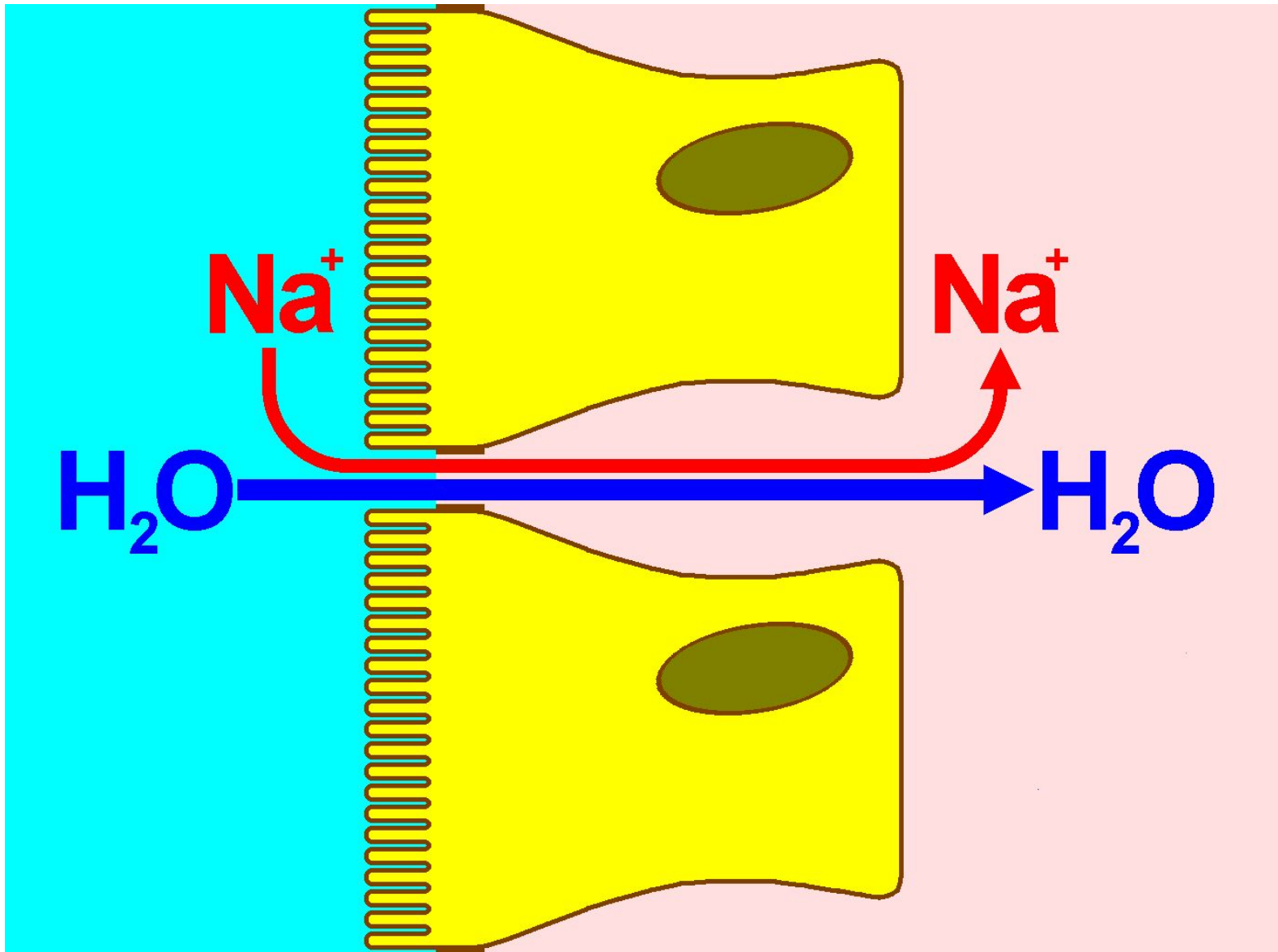
Вторичный активный антипорт

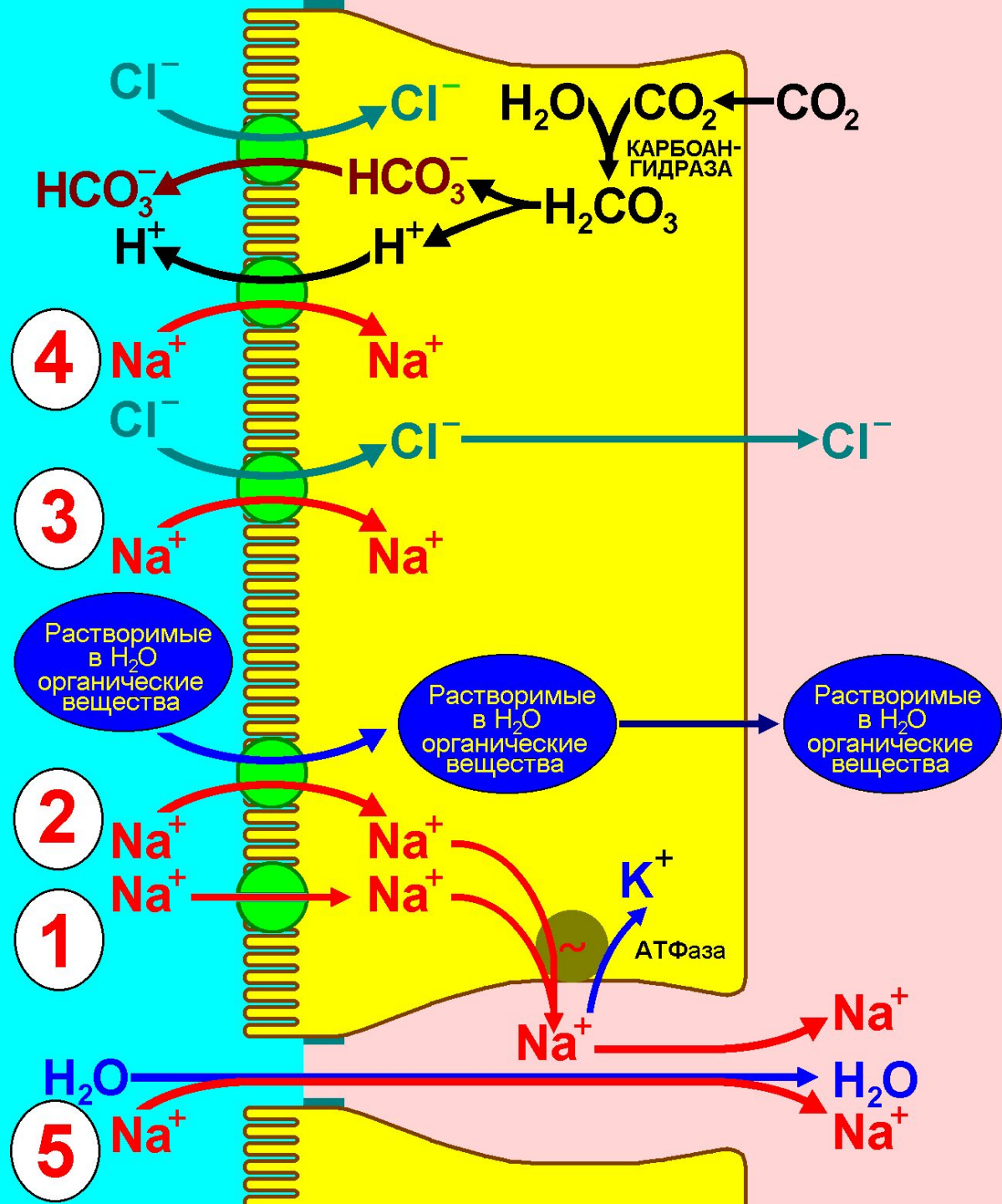


Электронейтральный обмен

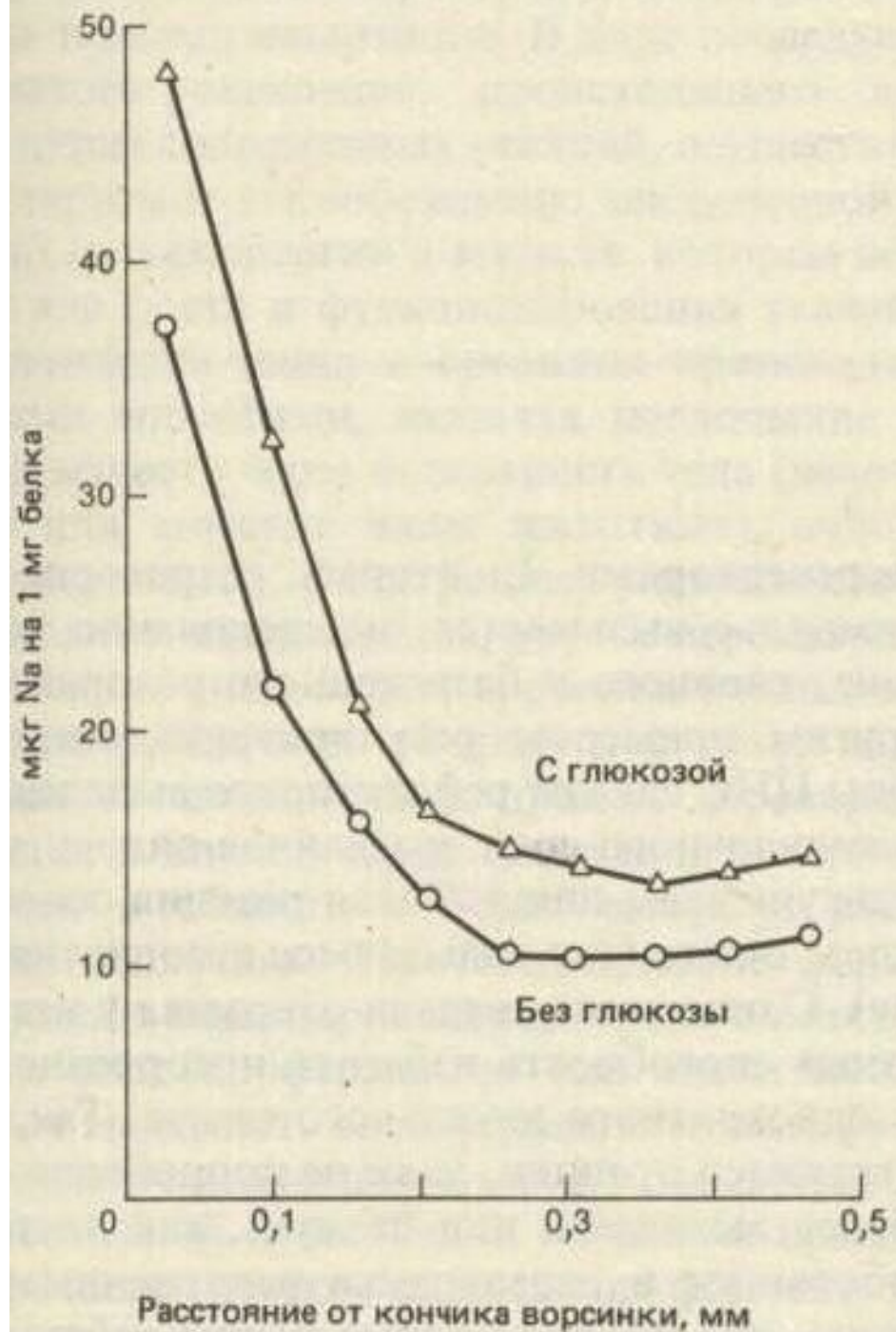


Конвективный перенос Na^+



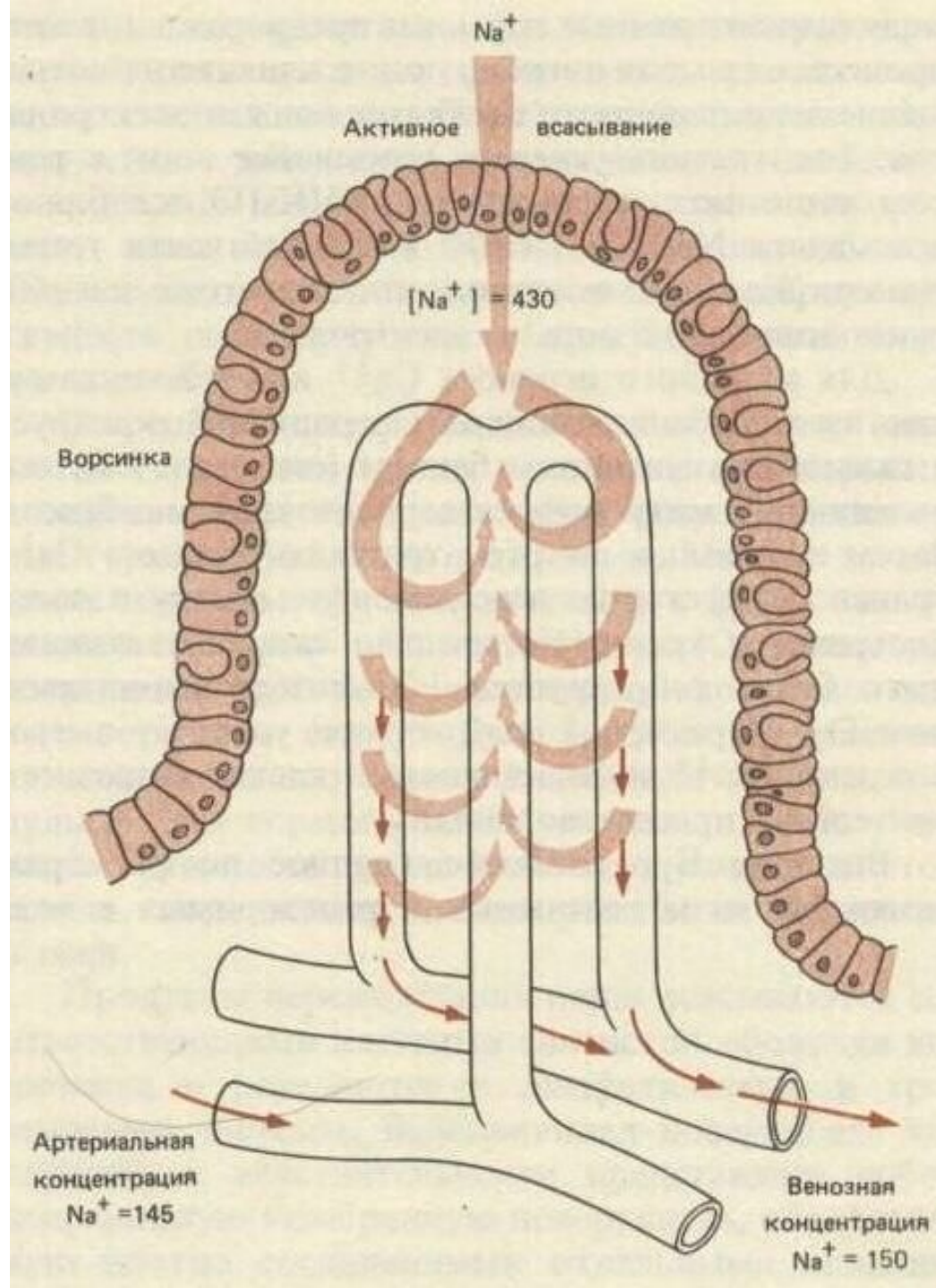


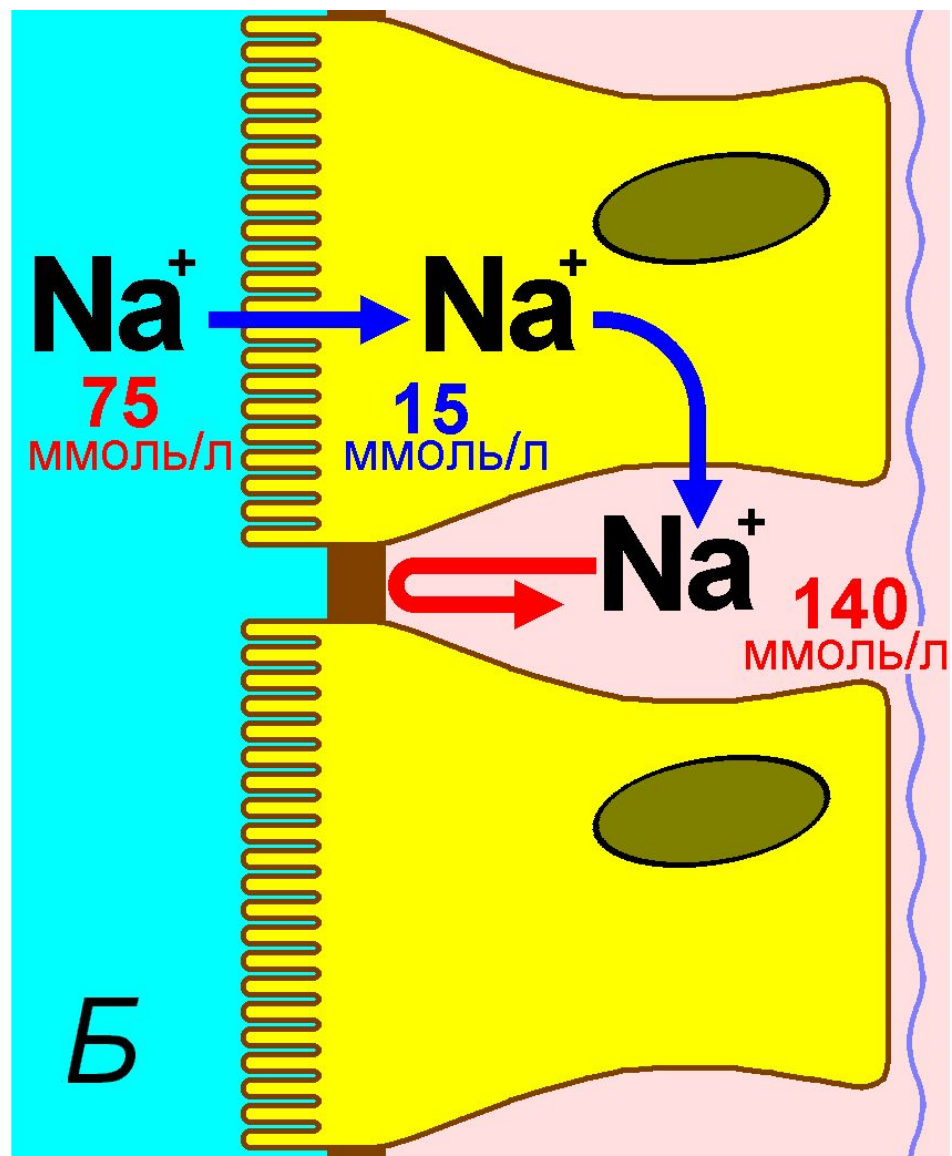
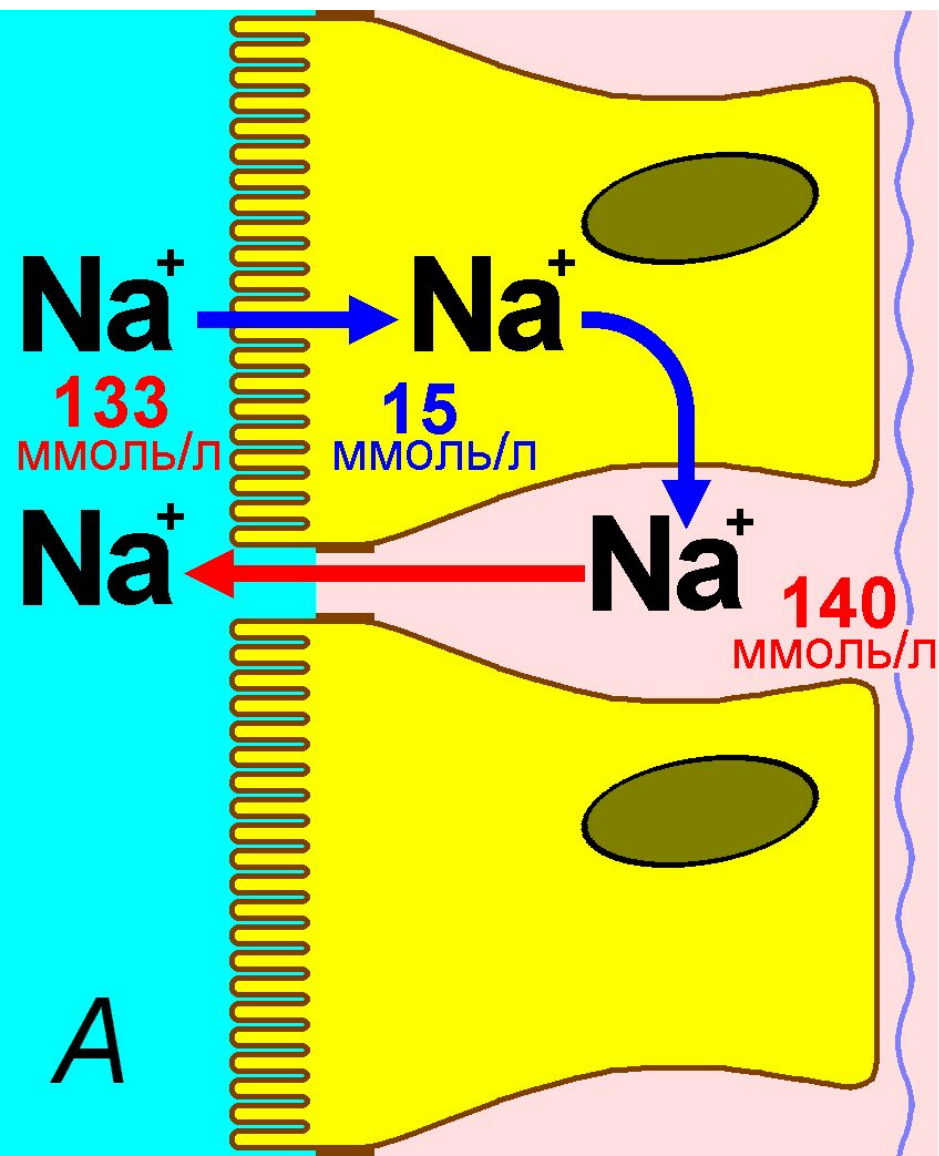
Градиент концентрации и Na^+ по ходу кишечной ворсинки



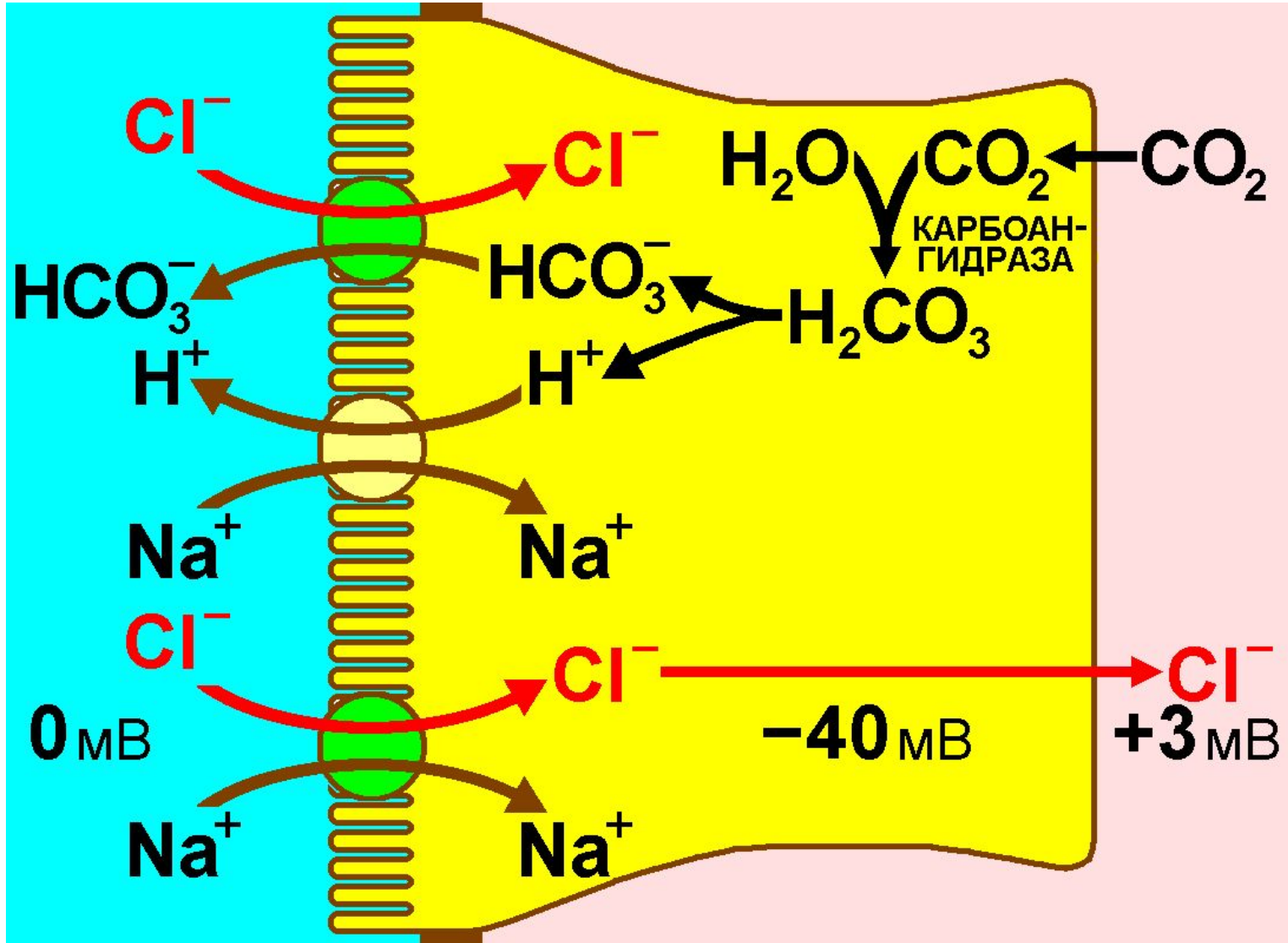
Противоточный
механизм при
всасывании Na^+

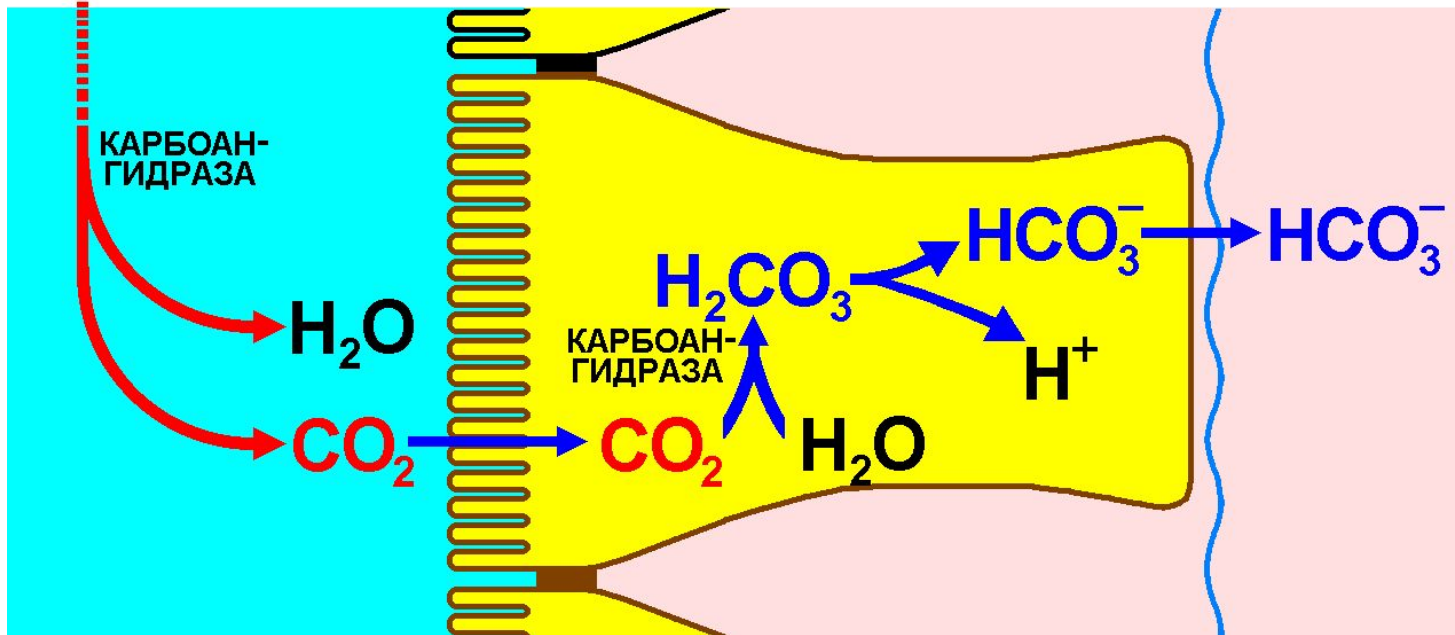
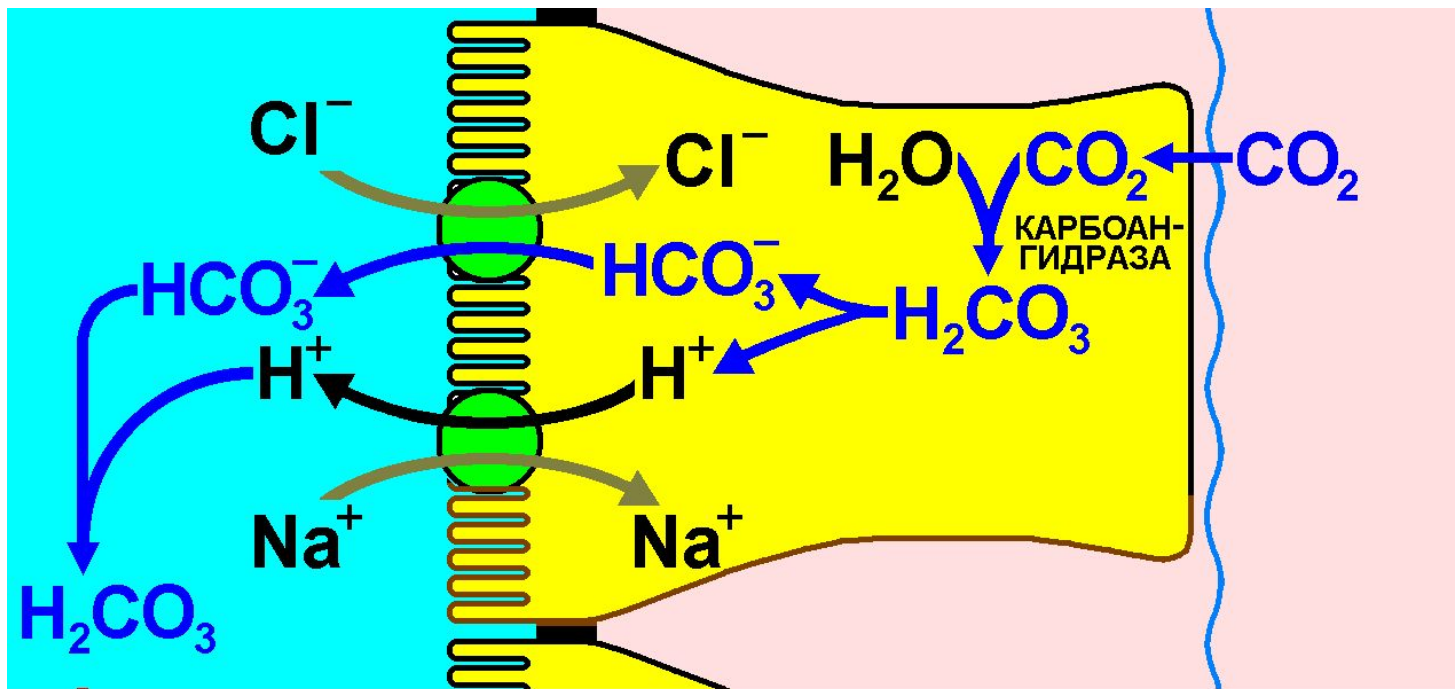
в ворсинке кишечника

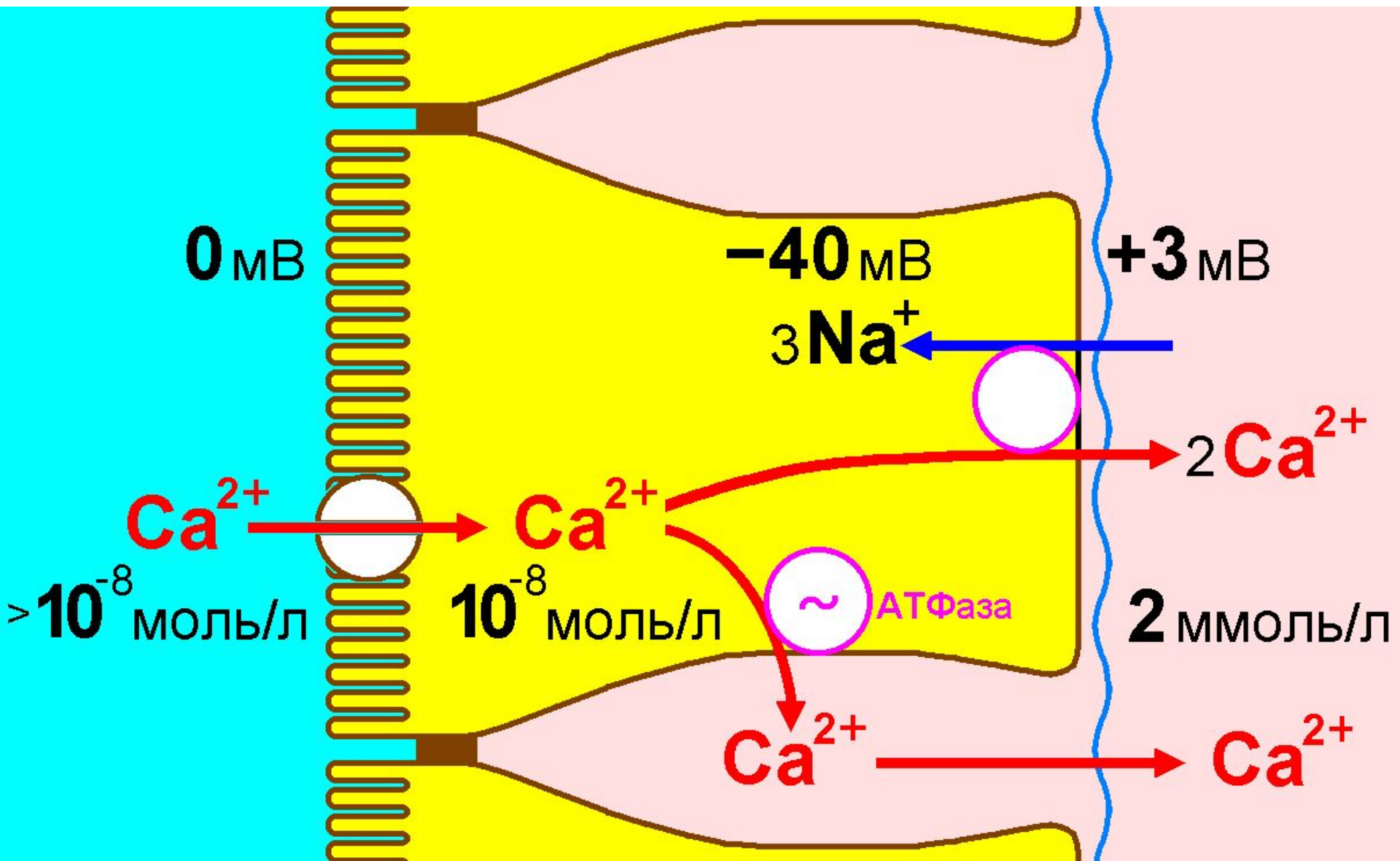


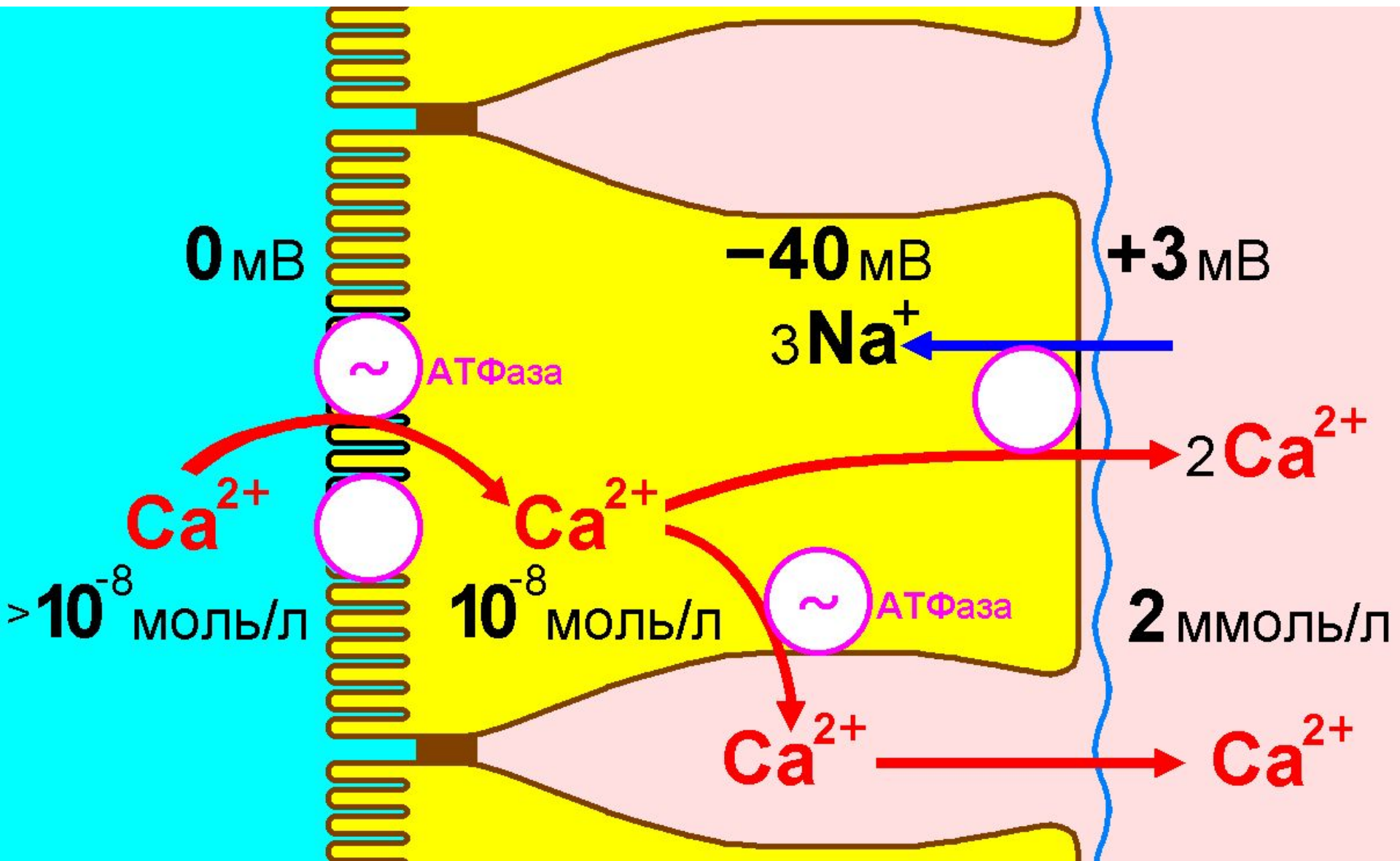


Транспорт Cl^-









Содержание воды в тонком кишечнике при разной осмолярности пищи

