



ТЕХНОЛОГИИ В МЕДИЦИНЕ

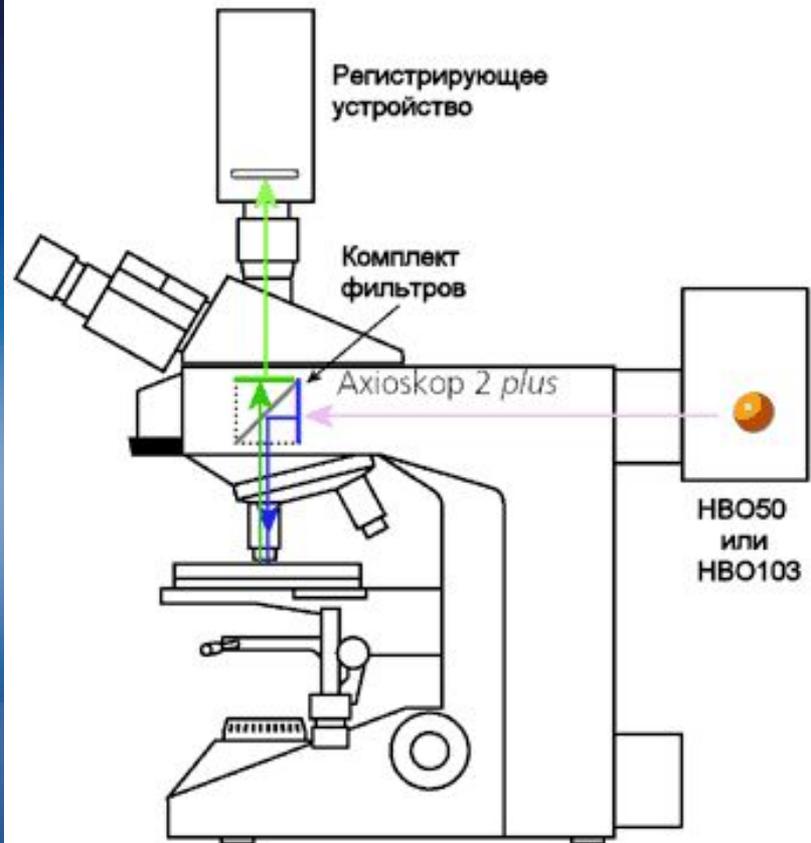
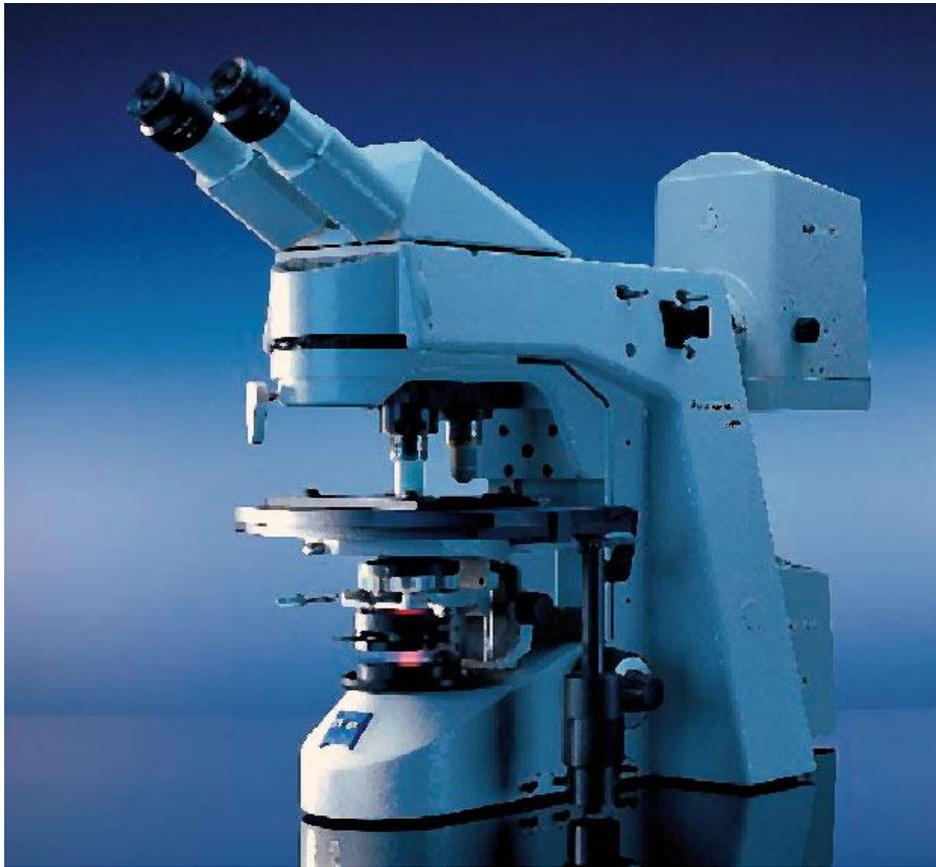
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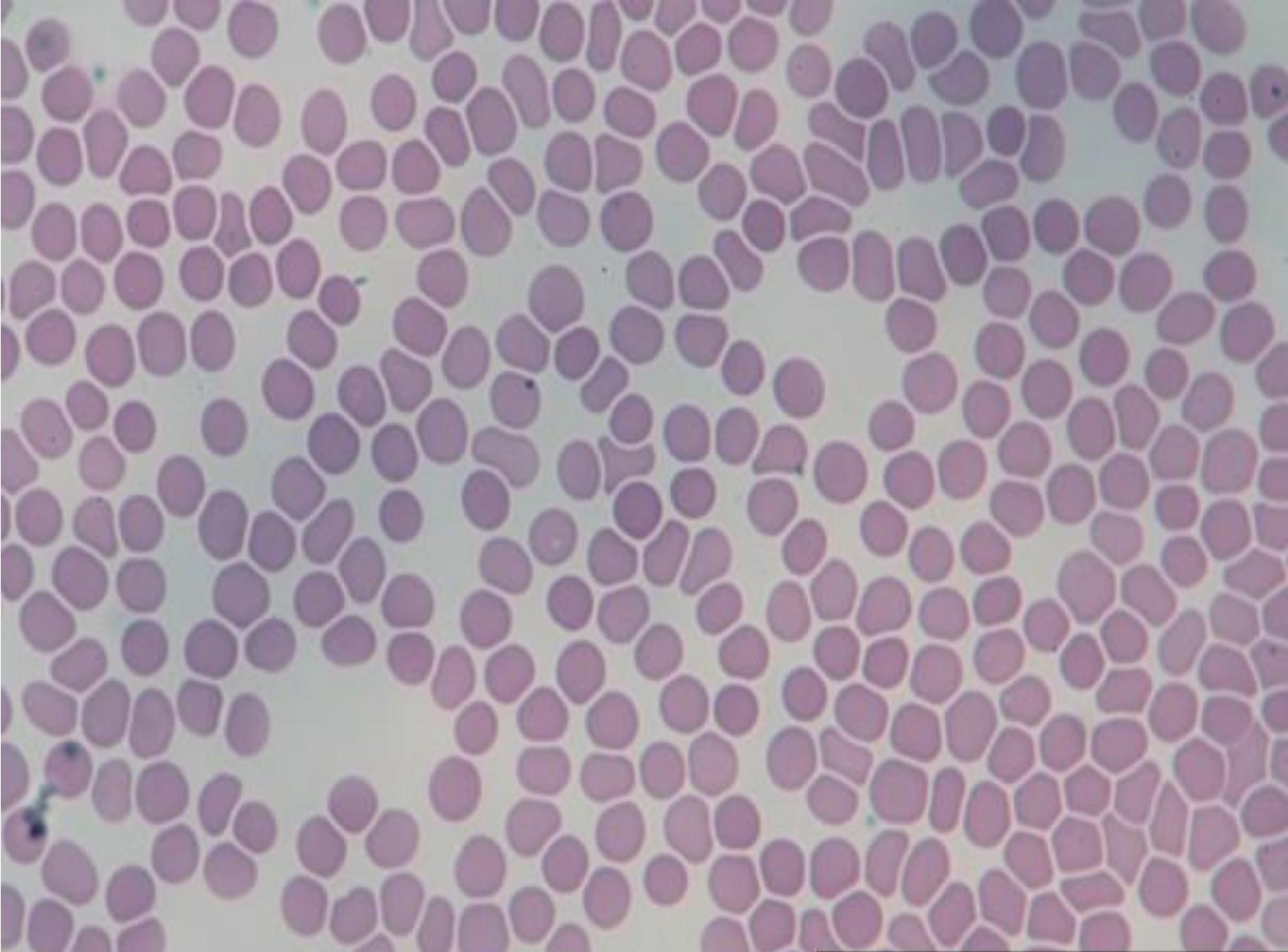
**Аспирант центра теоретических проблем физико-химической фармакологии
Российской академии наук.**

Младший научный сотрудник НМИЦ ДГОИ им. Дмитрия Рогачева.

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Микроскопия

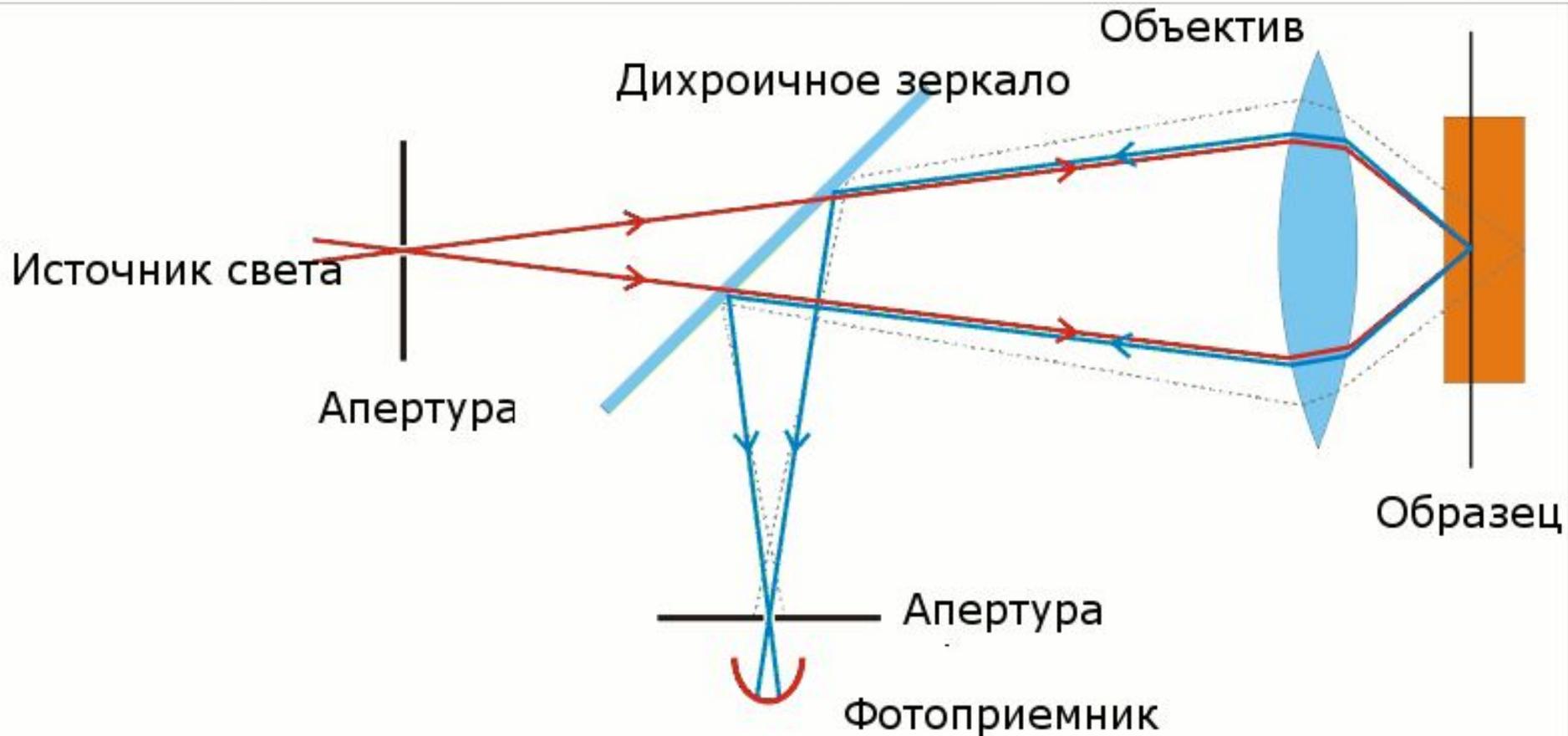




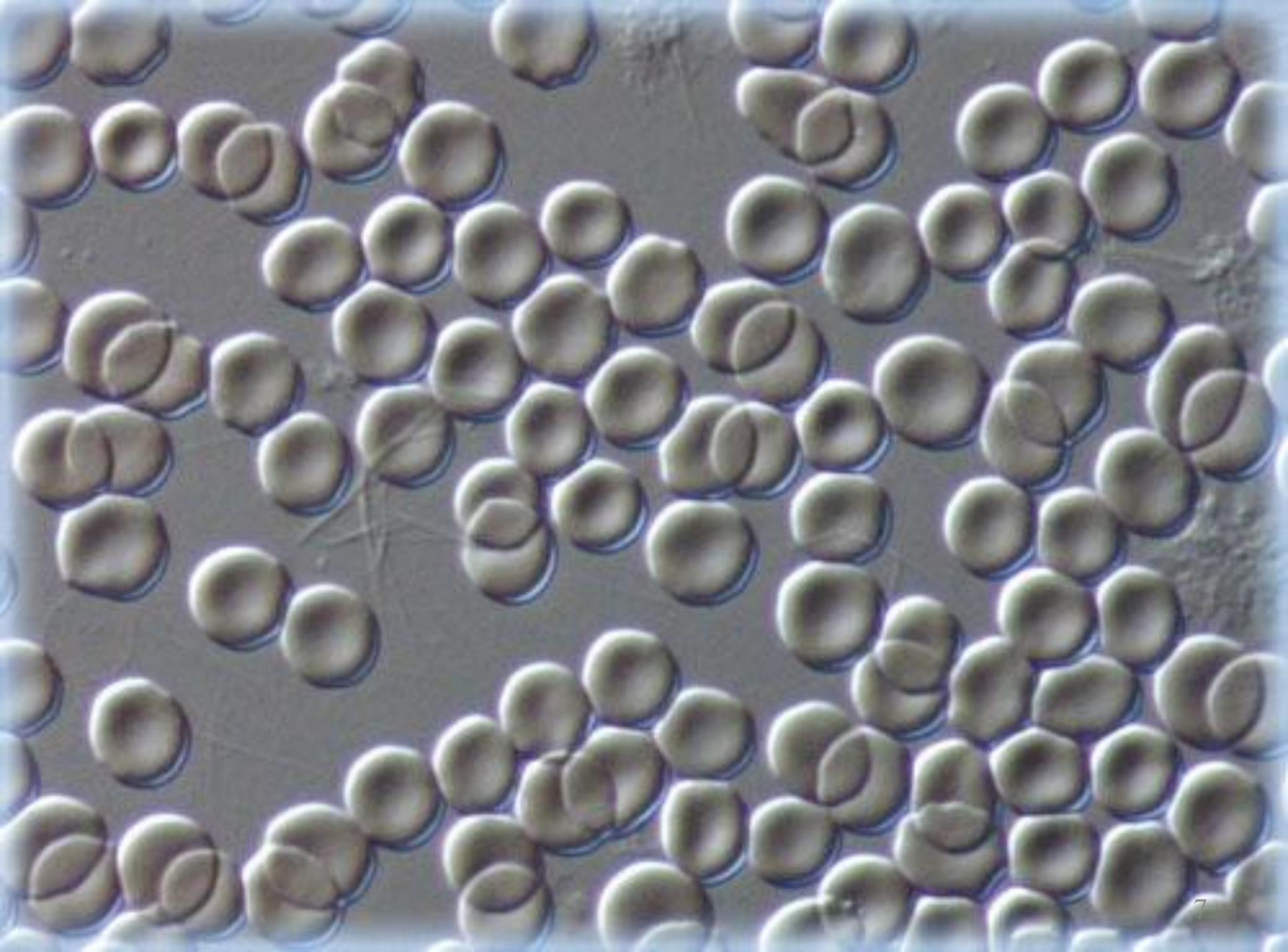
Конфокальная микроскопия



Схема конфокального микроскопа

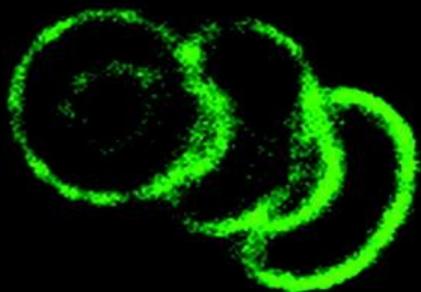
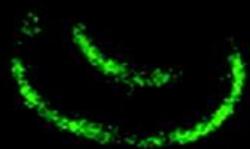


Fluorescence and confocal microscopes

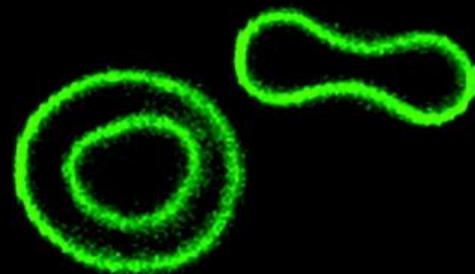
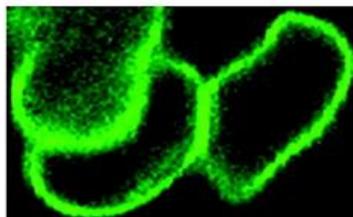


A

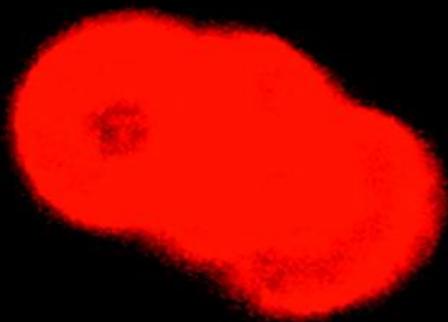
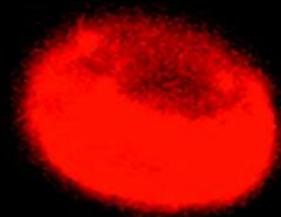
aldolase

**B**

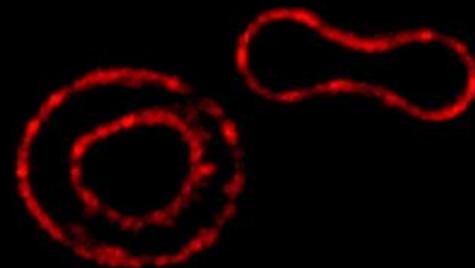
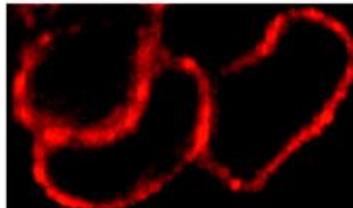
band 3



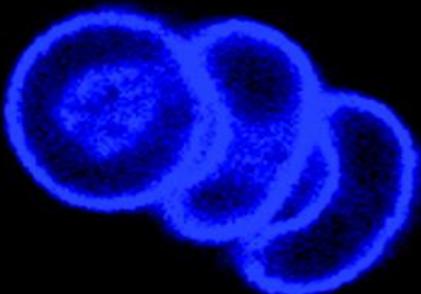
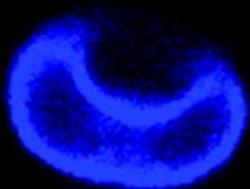
Hb



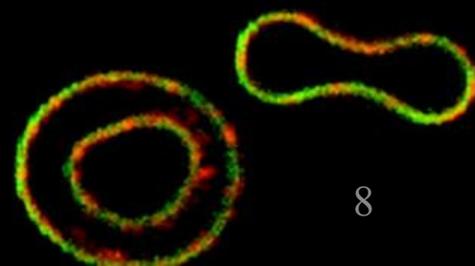
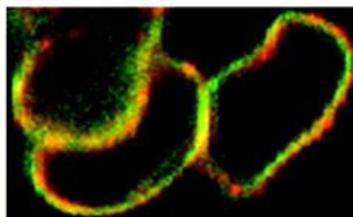
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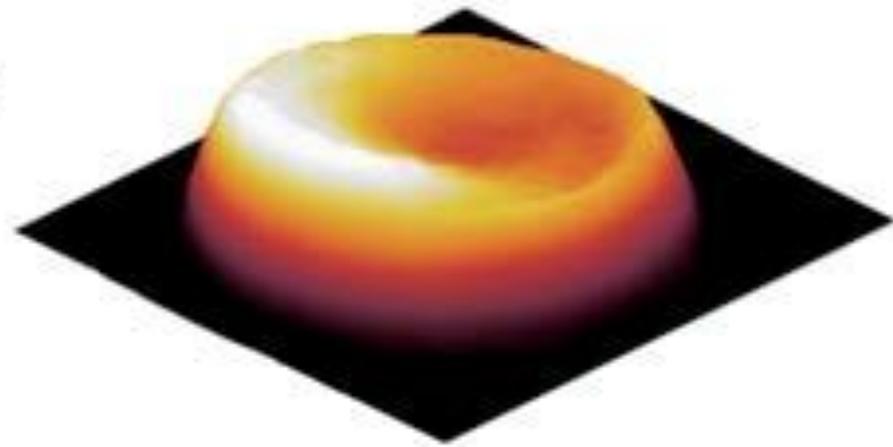
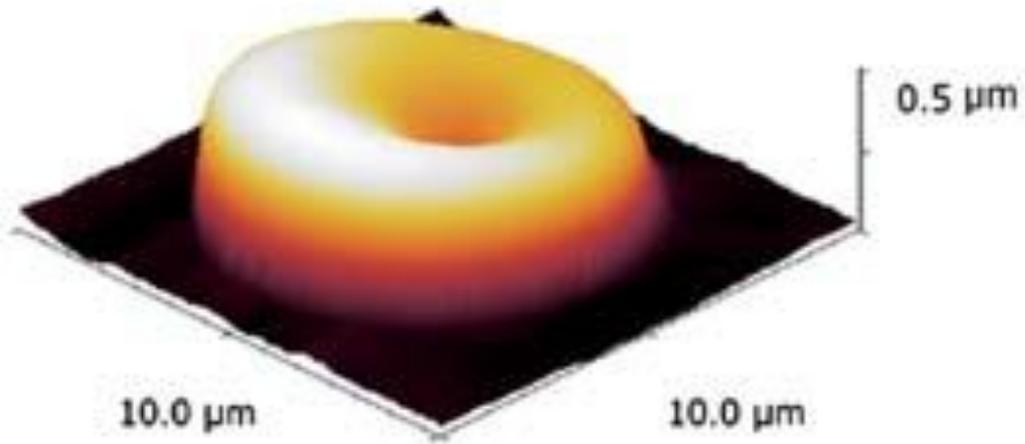
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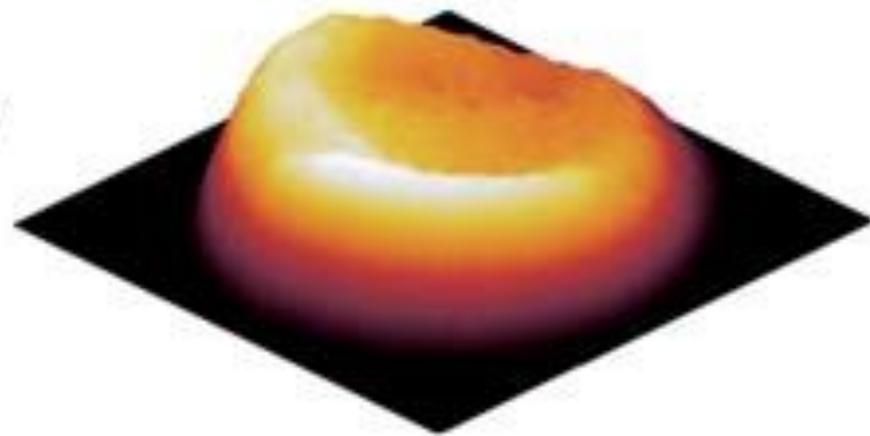
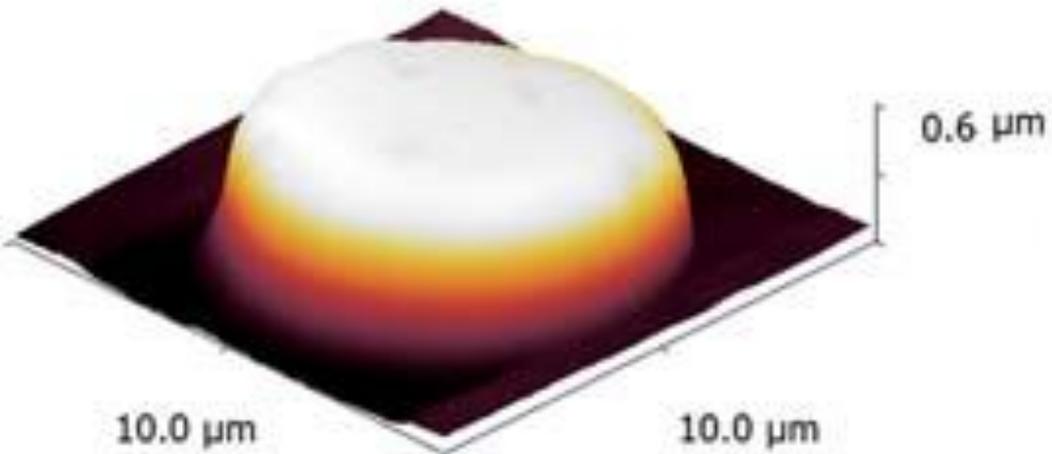
overlay

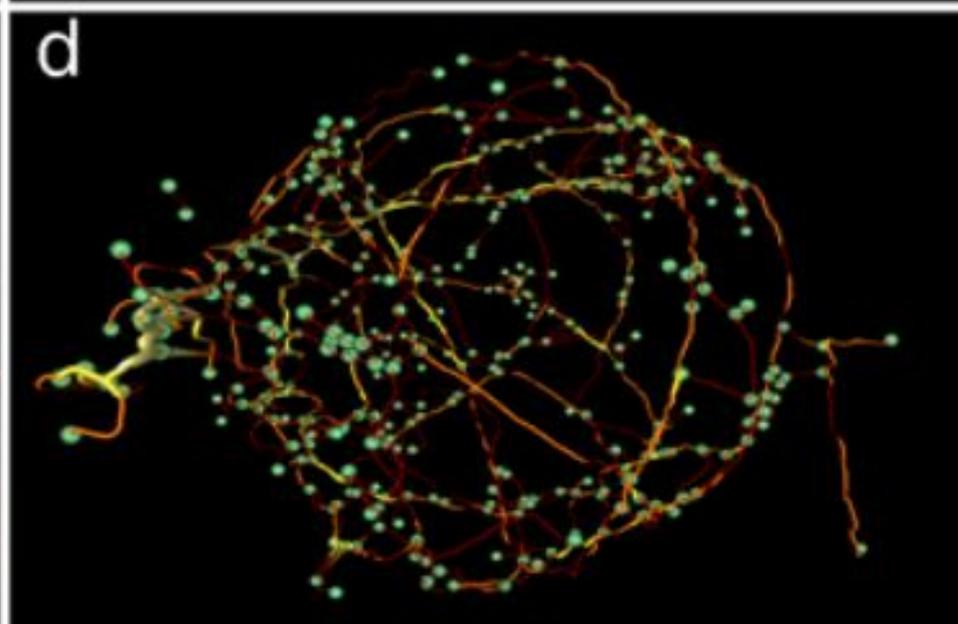
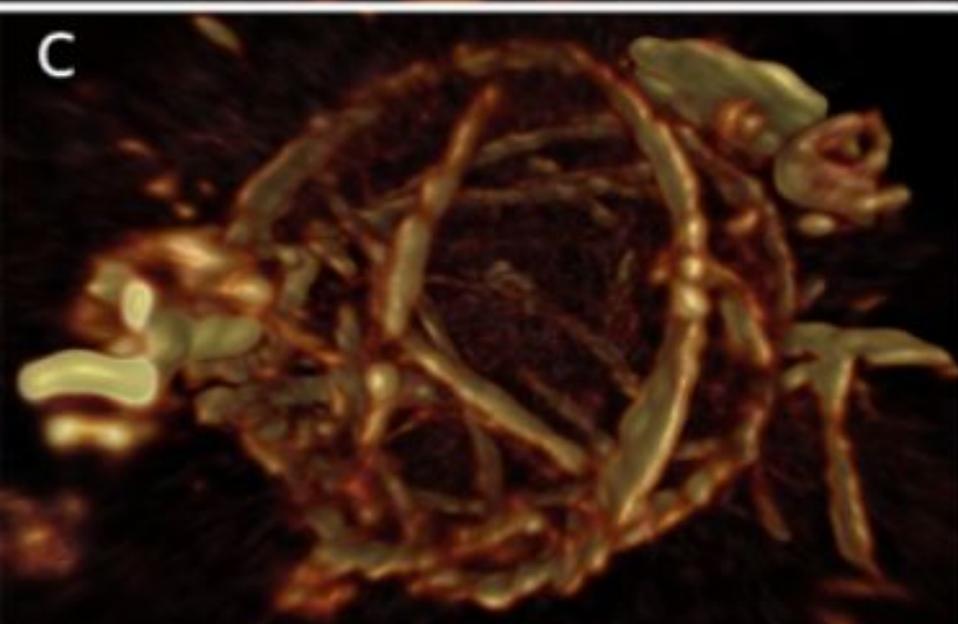
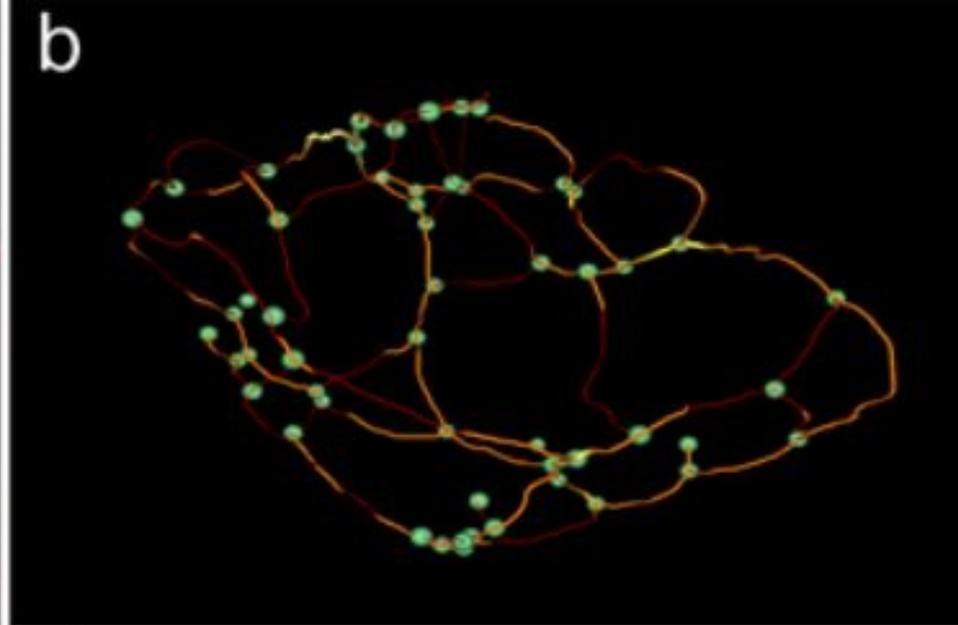
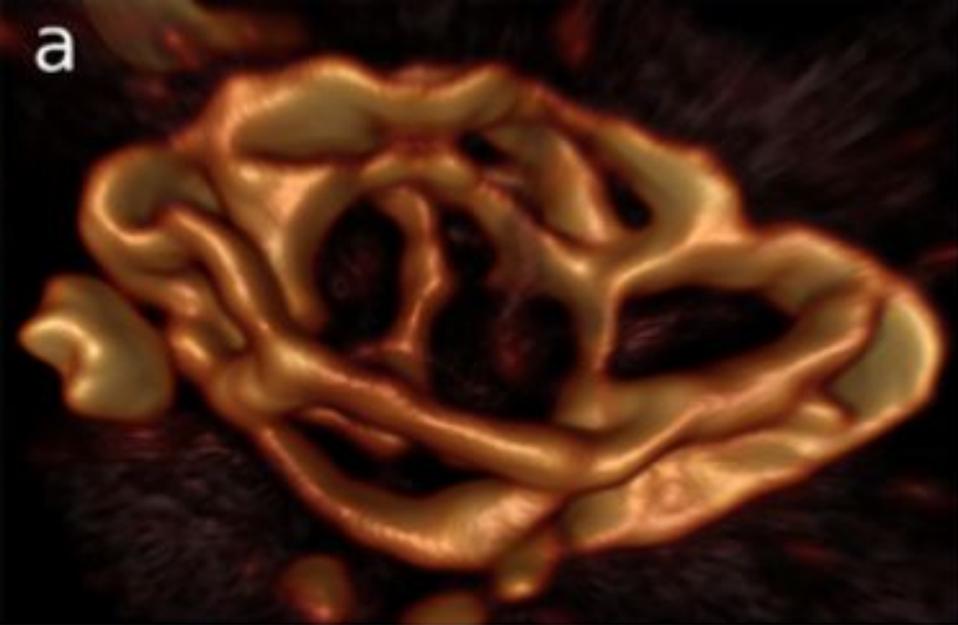


(A) Dried RBC in blood smear



(B) Dried RBC in buffer sample



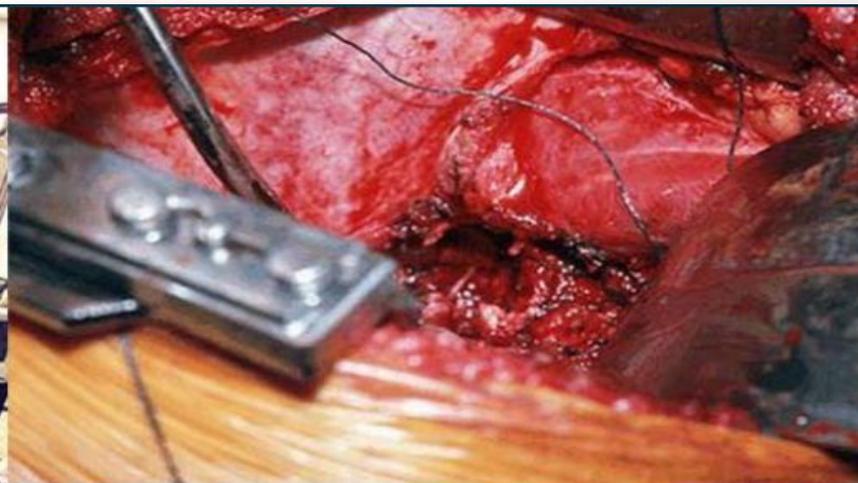


A Feature-Based Deep Learning Approach for Classification of Protein Networks Using 3D Live Microscopic Data

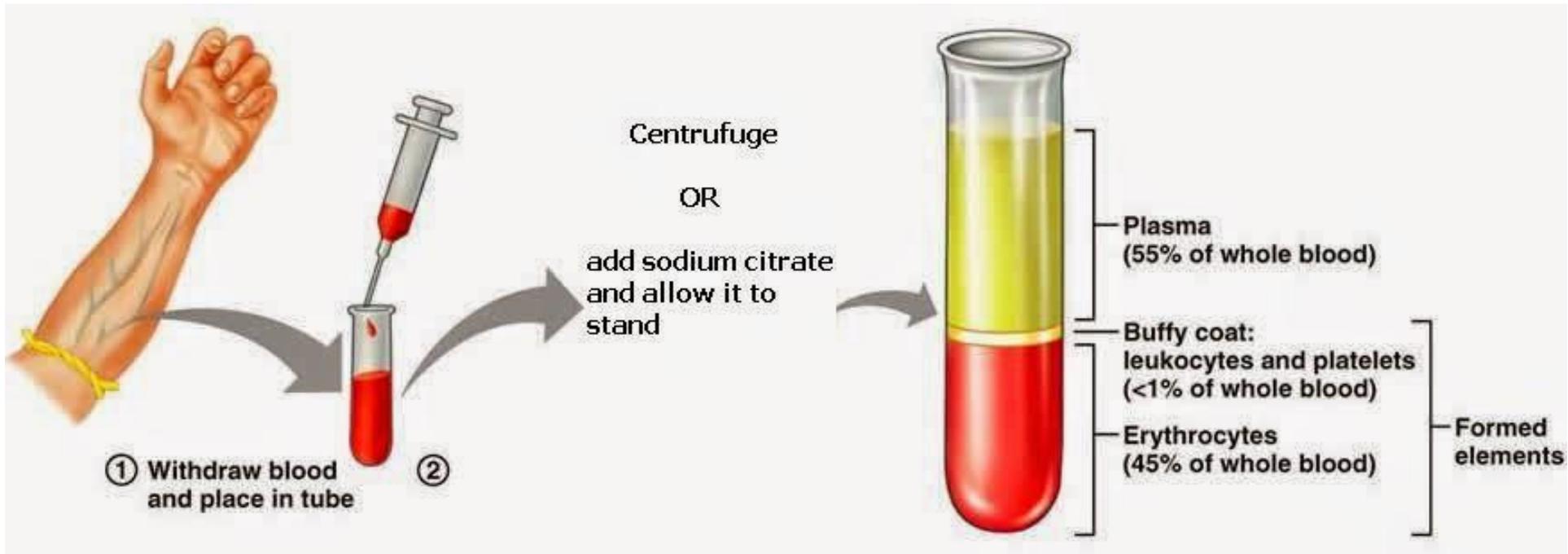
Распознавание образов, обработка изображений



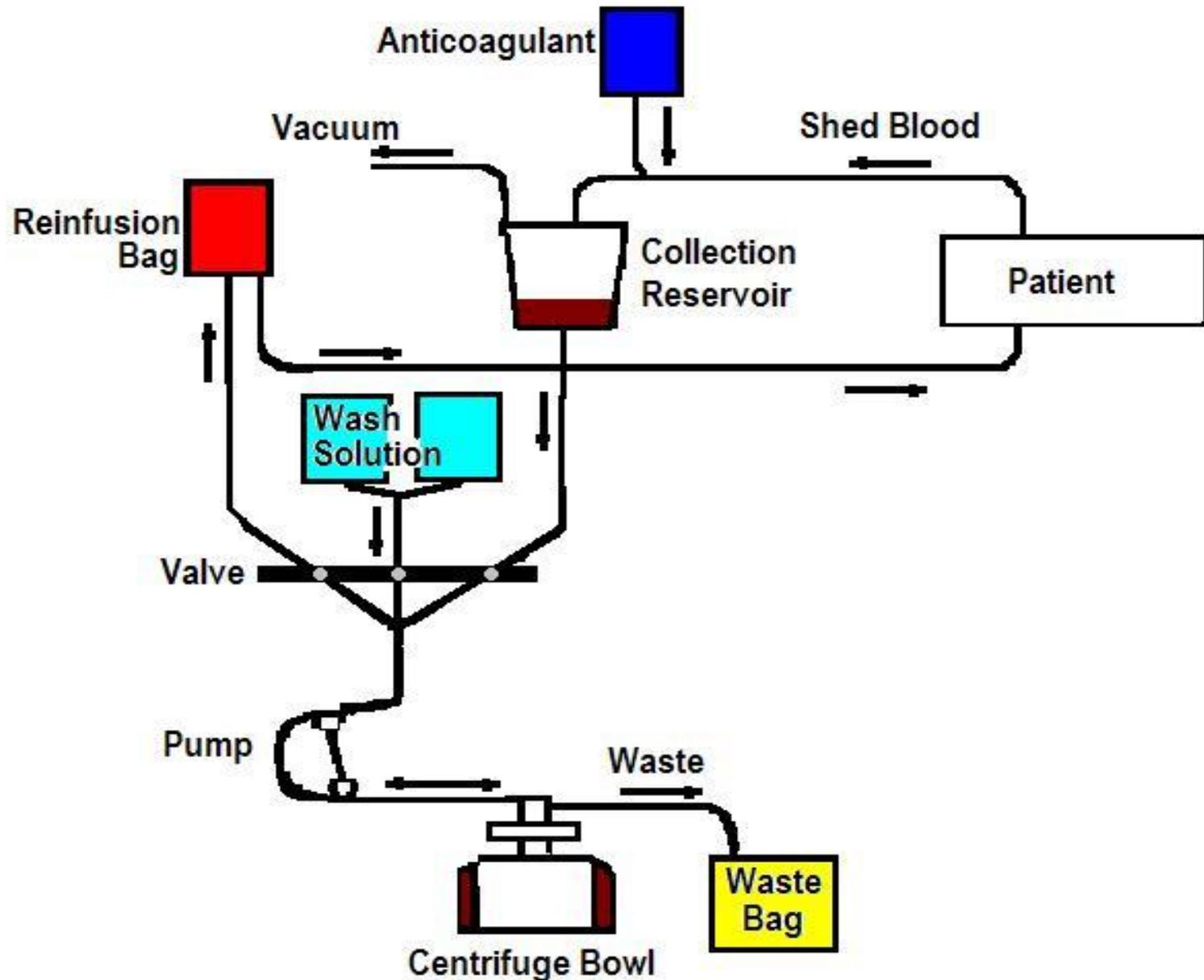
Реинфузия крови, излившейся в операционные полости



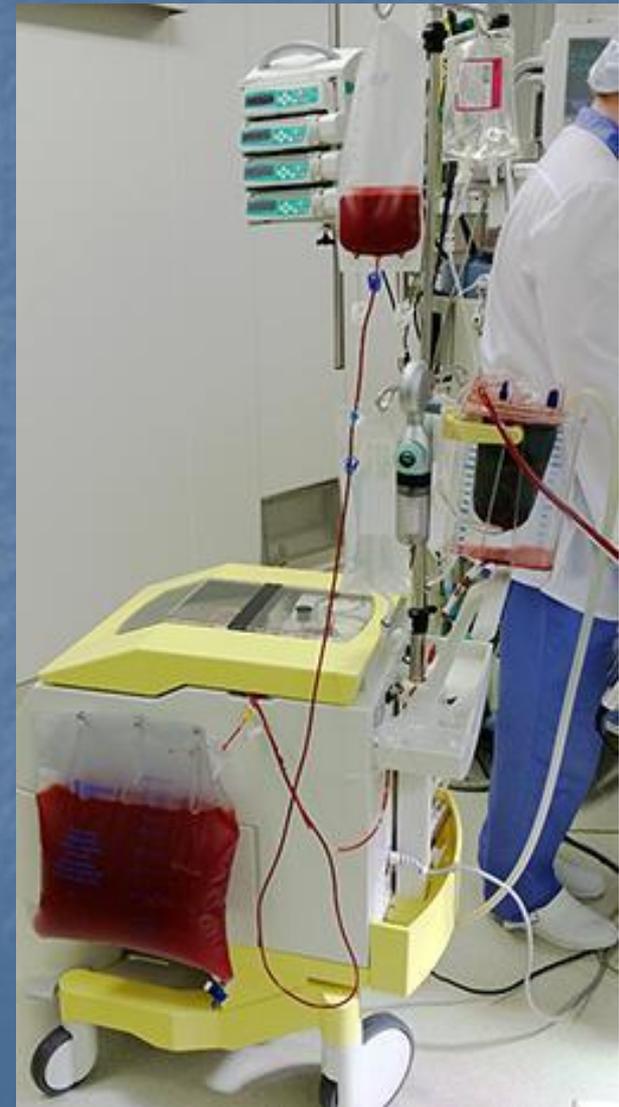
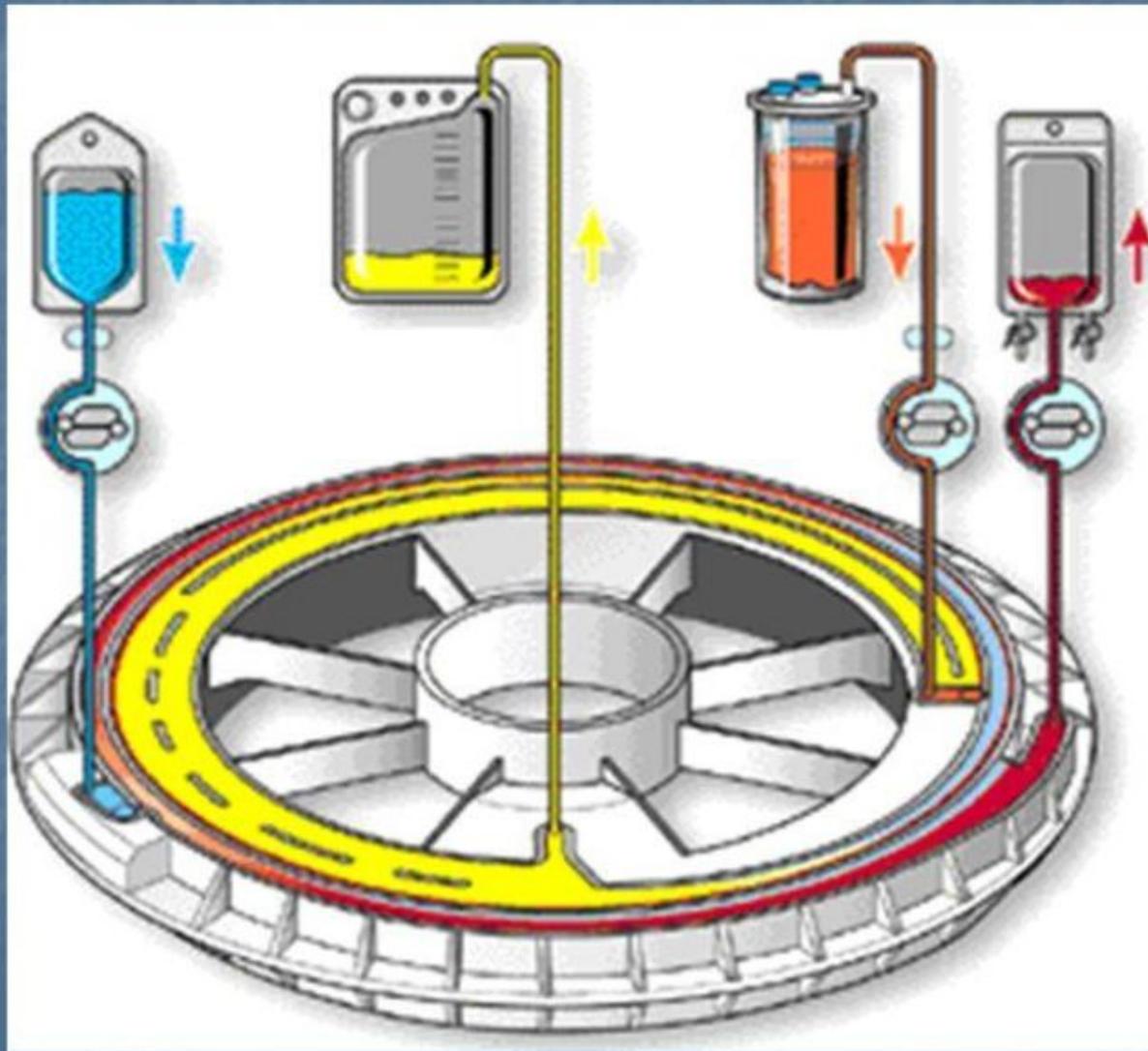
Разделение крови на компоненты



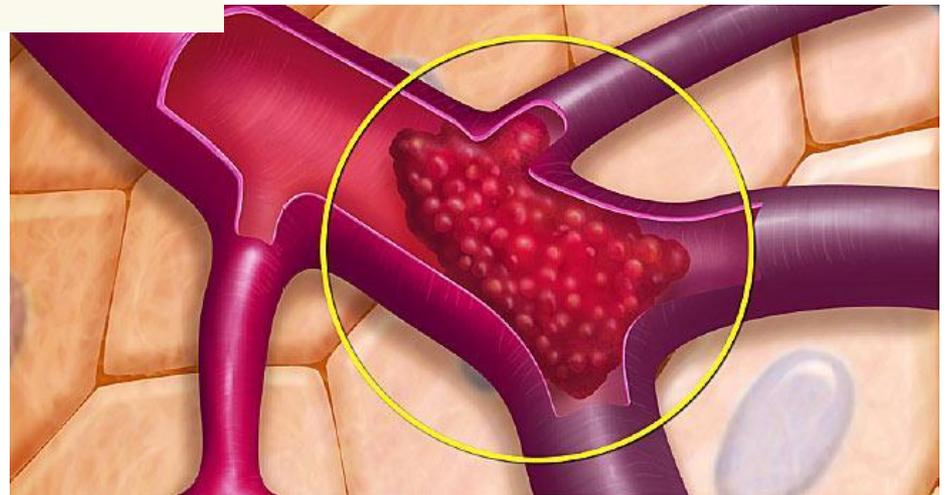
Autotransfusion Process Diagram

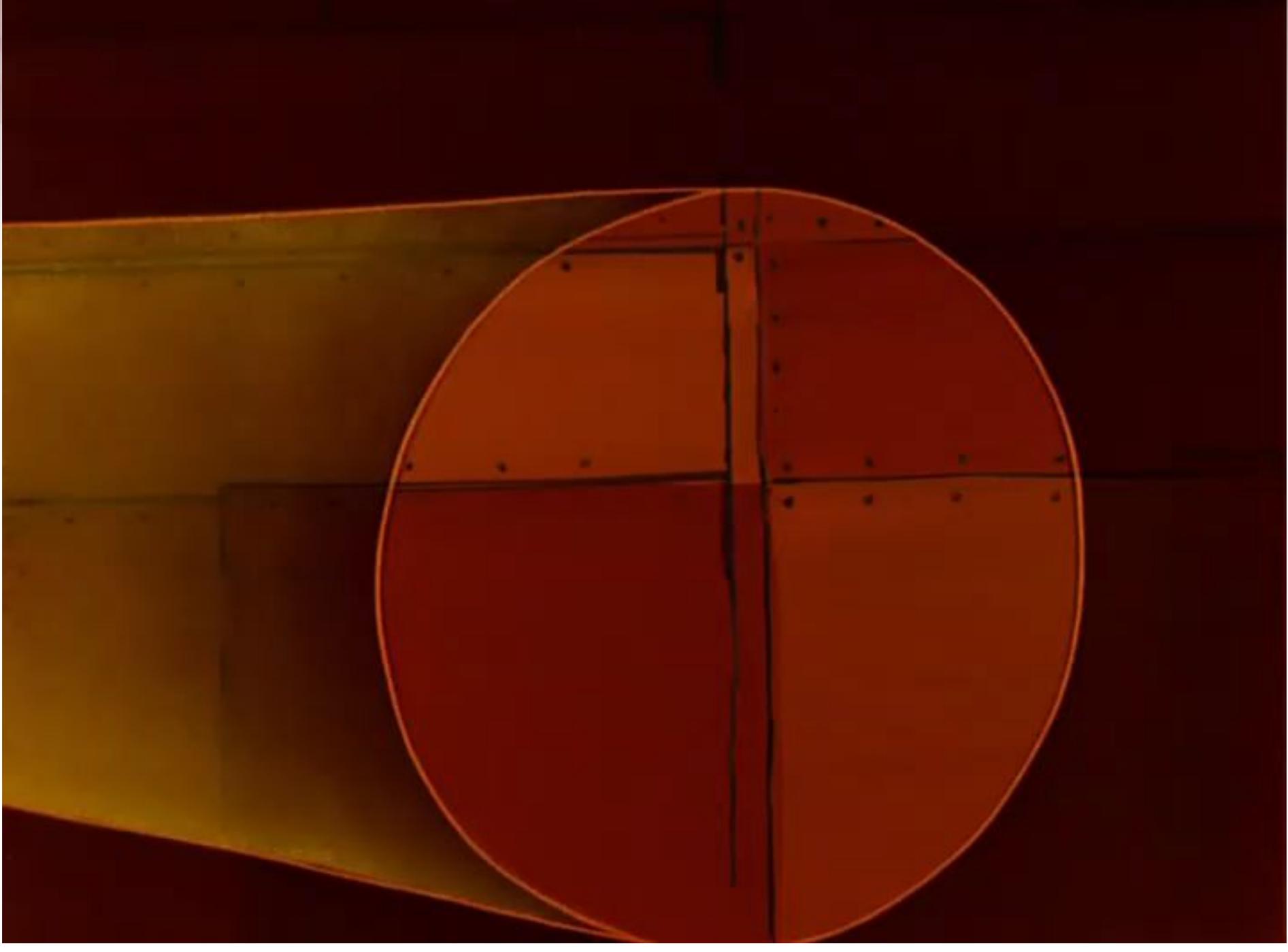


C.A.T.S. Plus

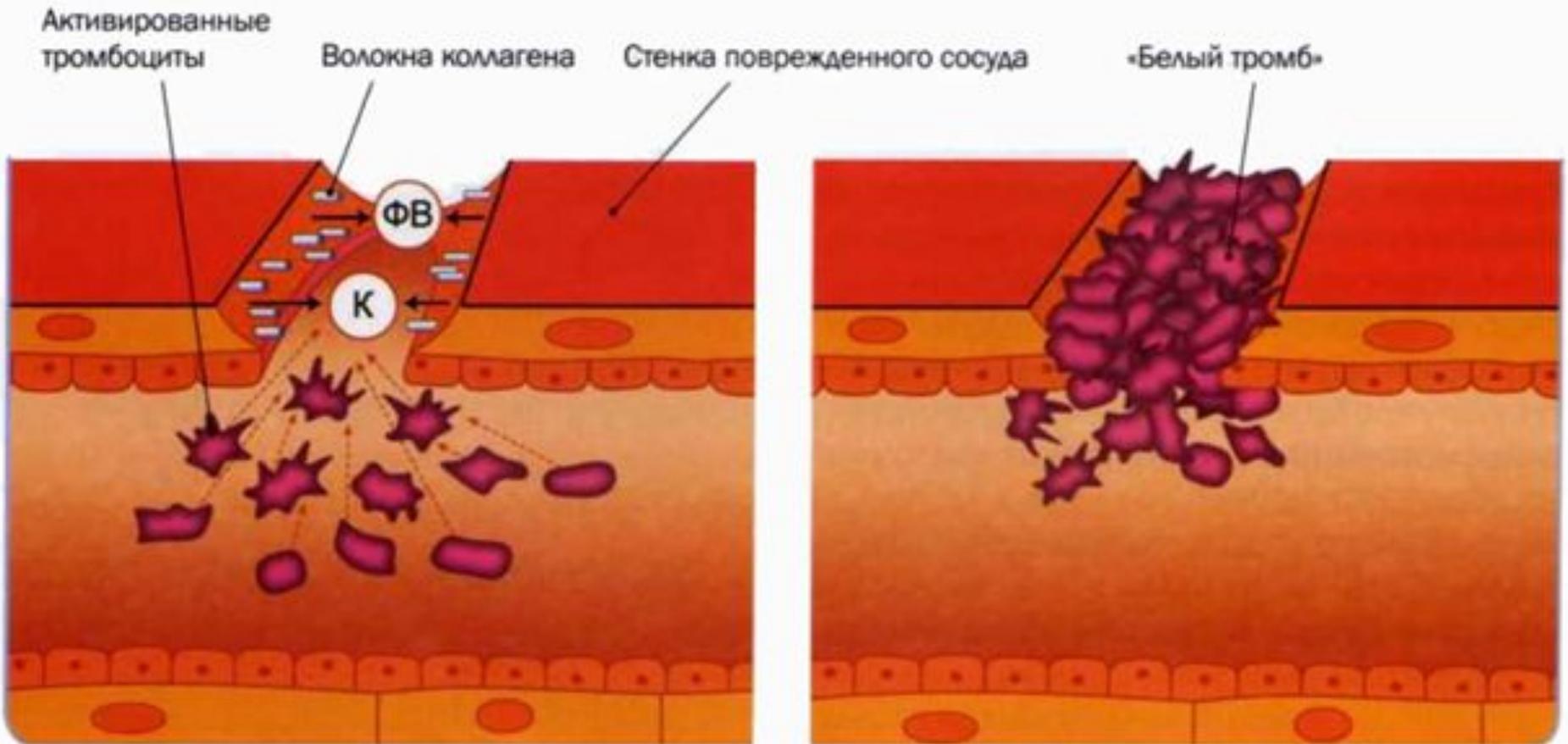


Кровотечения и тромбозы





Гемостаз

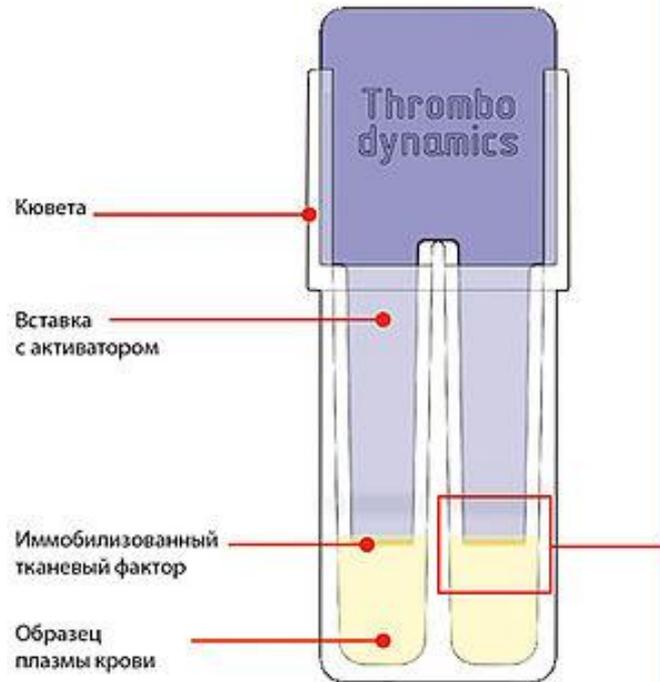


Тест тромбодинамики

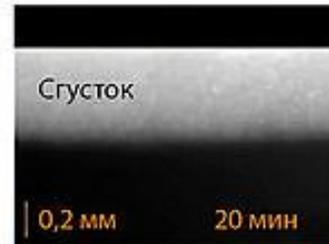
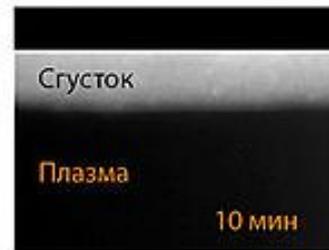
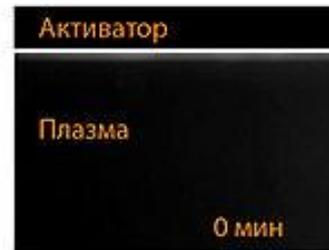


Схематическое изображение кюветы и типичные фотографии роста сгустка

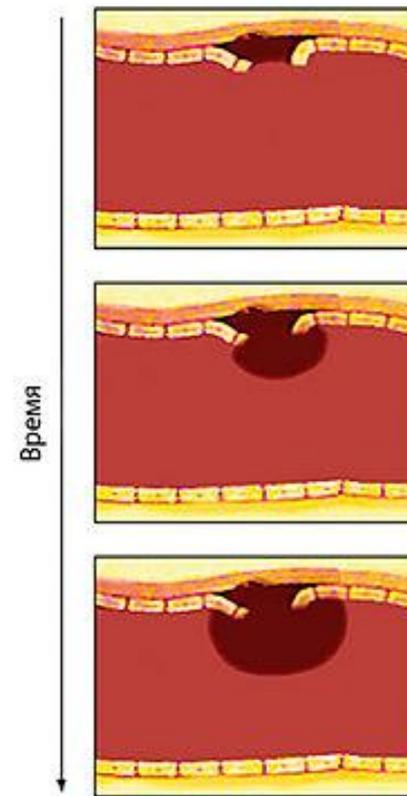
сгустка



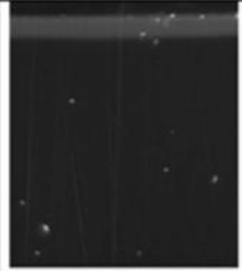
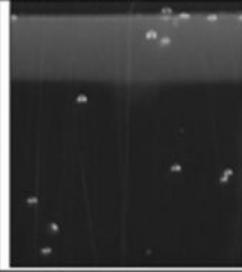
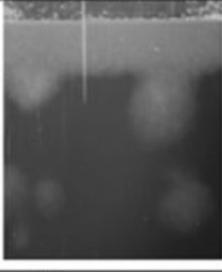
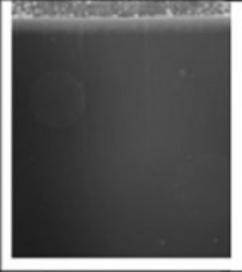
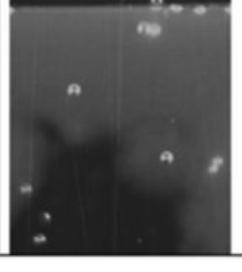
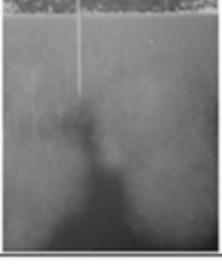
Фотографии растущего в кювете фибринового сгустка



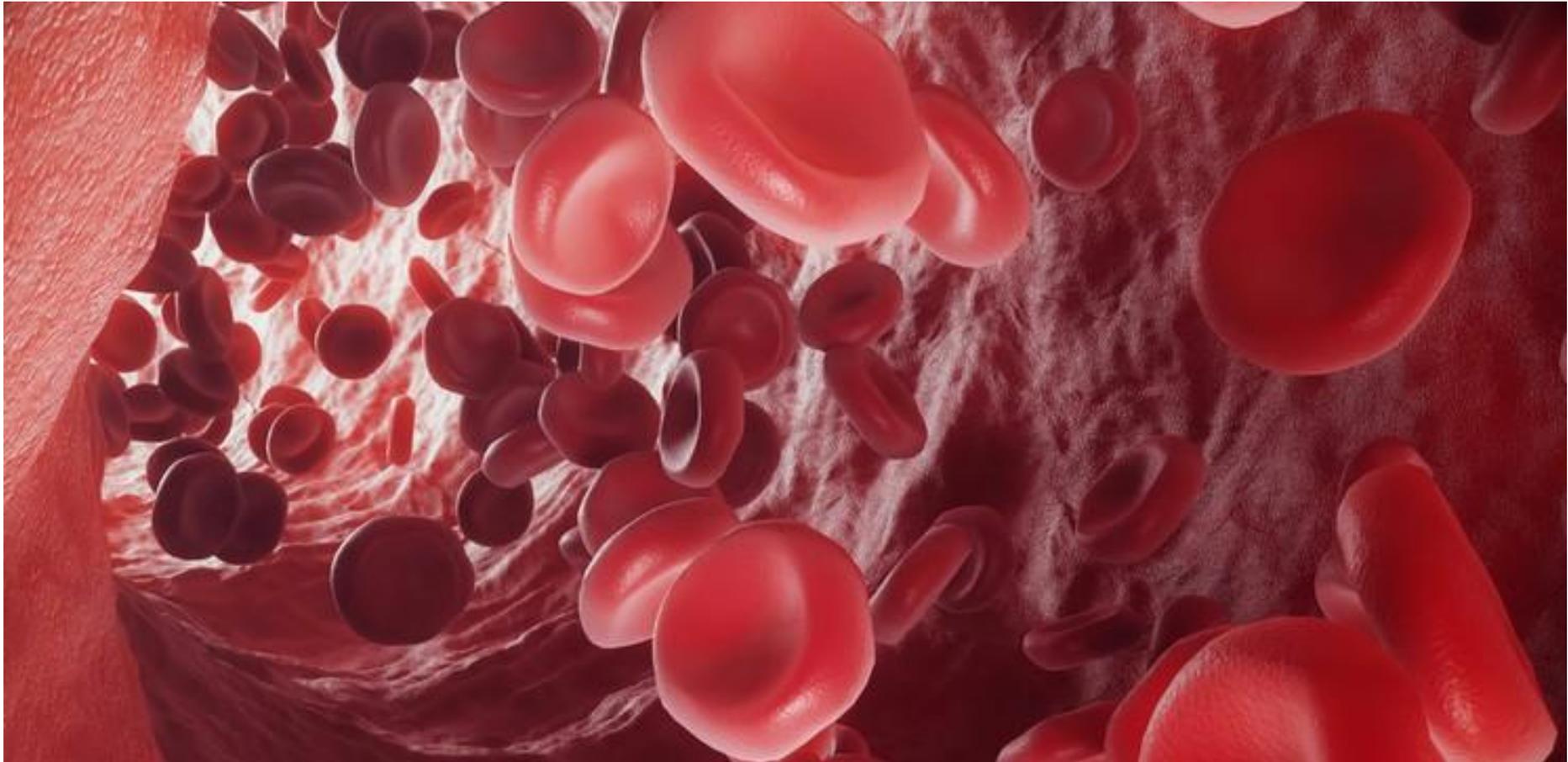
Схематическое изображение процесса роста сгустка in vivo



Образцы снимков, получаемых при исследовании плазм пациентов с различными патологиям

А	Б	В	Г
Естественная гиперкоагуляция	Искусственная гиперкоагуляция	Введение гепарина <i>in vivo</i> (1000 МЕ/час)	Добавление гепарина <i>in vitro</i> (0,2 МЕ/мл)
5 минут	5 минут	5 минут	5 минут
			
25 минут	25 минут	25 минут	25 минут
			
50 минут	50 минут	50 минут	50 минут
			

Включение лекарственных веществ в эритроциты человека



Лейкозы

Эритроциты



ЗДОРОВАЯ КРОВЬ

Нейтрофилы



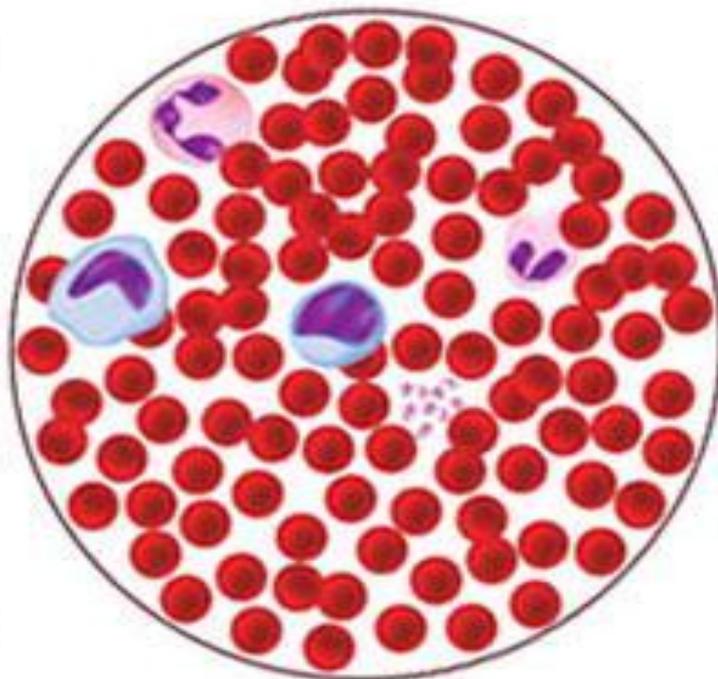
Лимфоциты



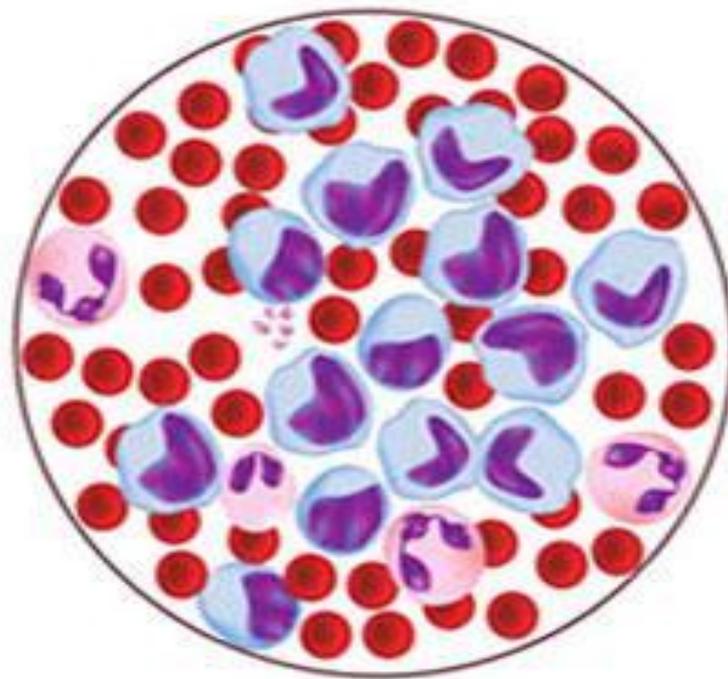
Моноциты



Тромбоциты



ЛЕЙКОЗ

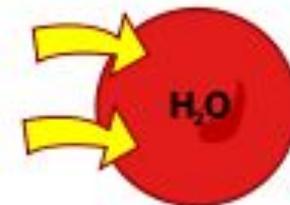
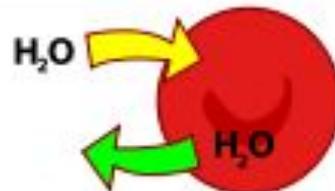
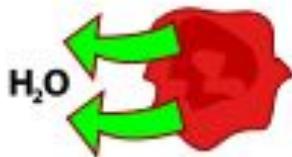


Взаимодействие эритроцитов с растворами в зависимости от их осмотического давления.

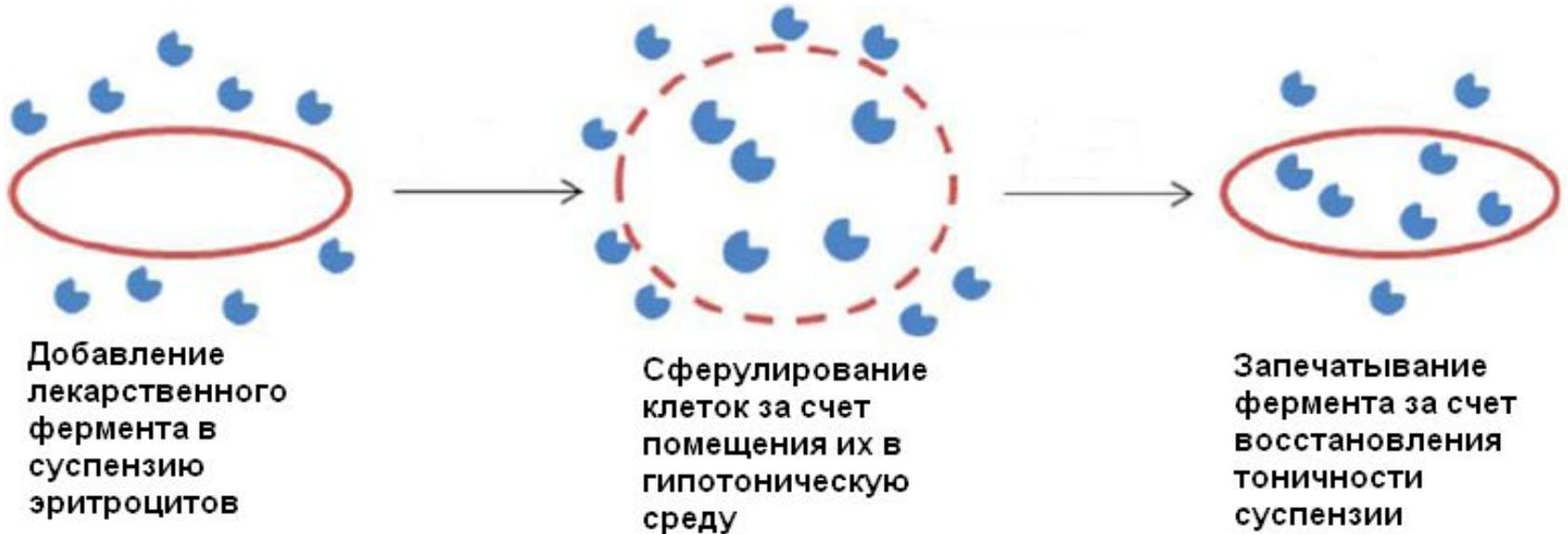
Гипертонический

Изотонический

Гипотонический



Принцип включения лекарственных веществ в эритроциты



Принцип действия устройства

