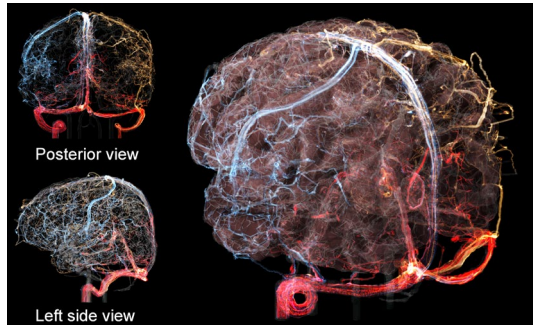
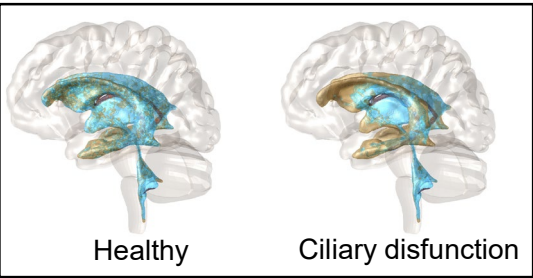


## Cerebral blood flows and cerebrospinal fluid flows

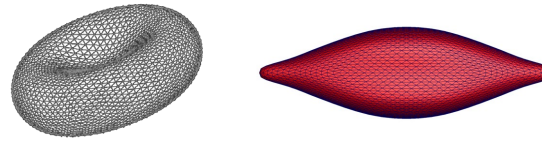


Cerebral blood flow simulator

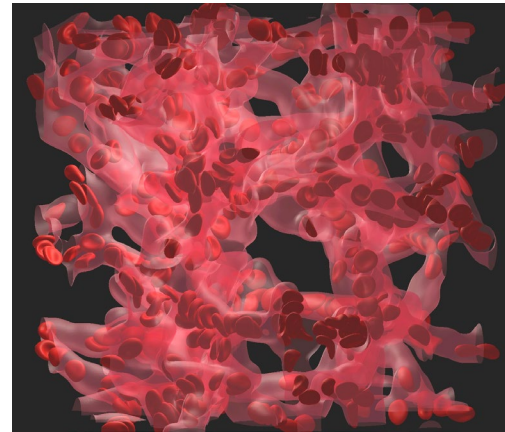


Cerebrospinal fluid flow

## Red blood cells and microcirculatory blood flows

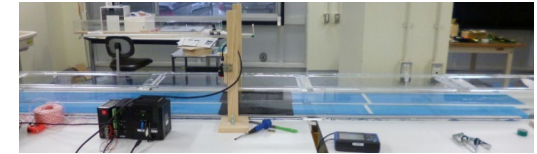


Computational model of RBCs



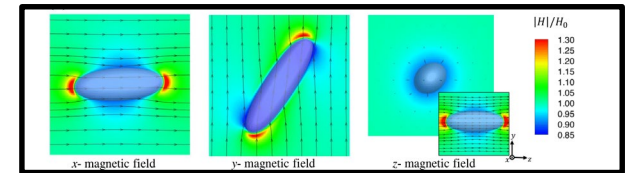
RBCs in capillaries

## Ship waves

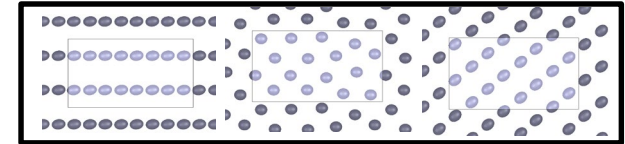


Experimental setup

## Ferrofluid droplets

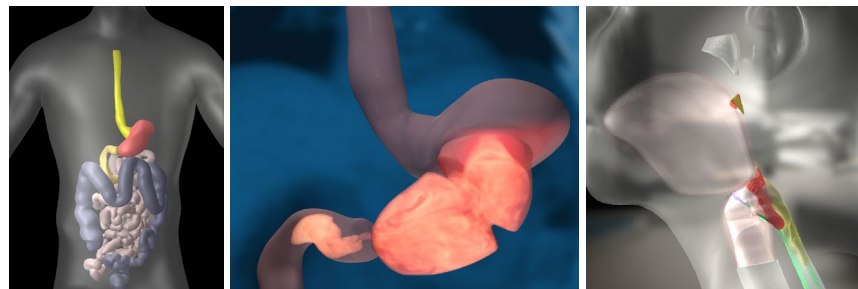


Deformation of ferrofluid droplet



Self-organized pattern of ferrofluid droplets

## Gastrointestinal flows

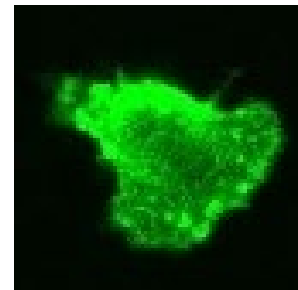


Morphogenesis

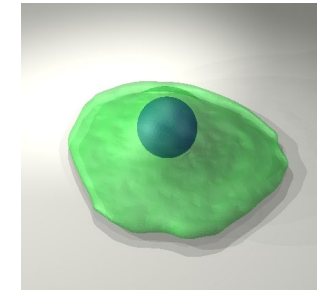
Gastric flow

Swallowing

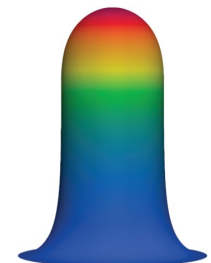
## Cell dynamics



Experiment



Computational model



Formation of pseudopodia