

## Capillary Walls

The **VASCULAR** and **LYMPHATIC** systems connect to perform the remarkable interplay of fluids via the **CAPILLARY WALLS**.

## Blood

is transported to the further reaches of our body. The vessels within the vascular system become smaller and smaller until they become capillaries.

## Capillaries

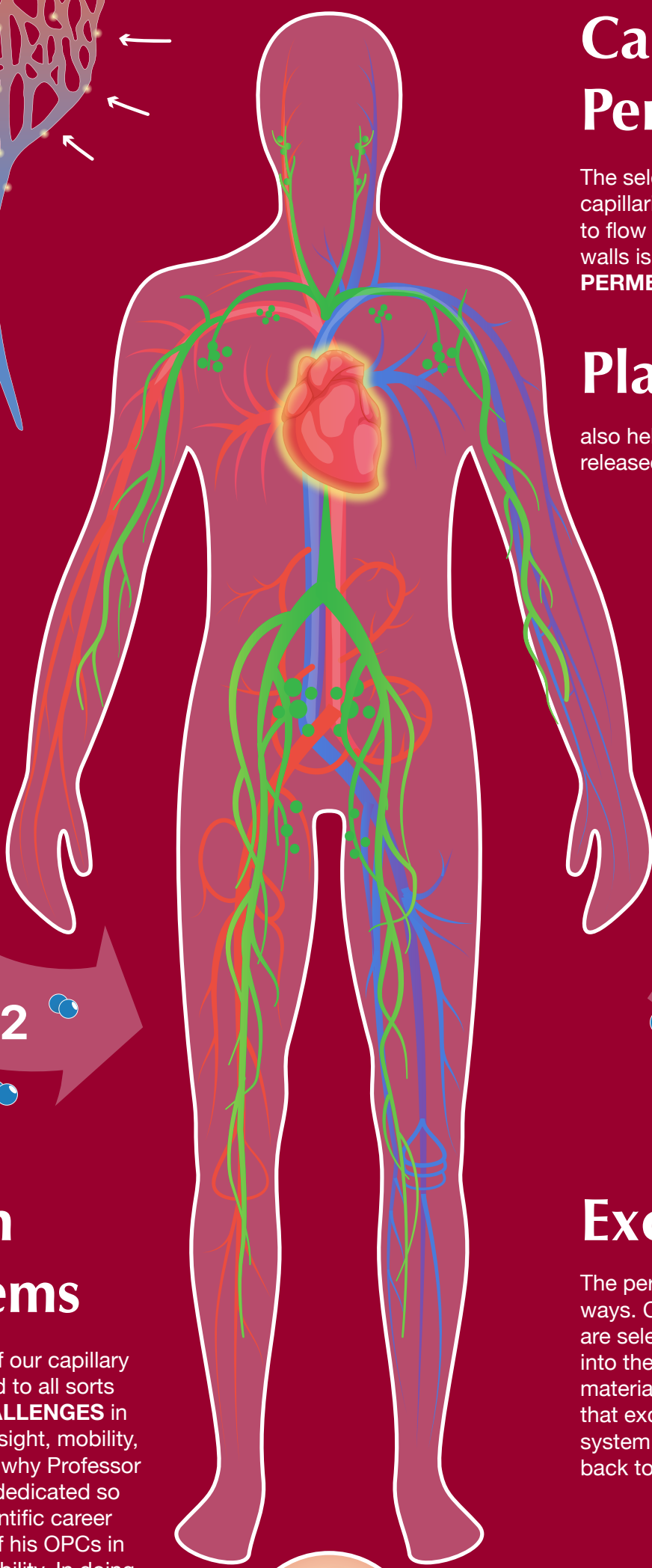
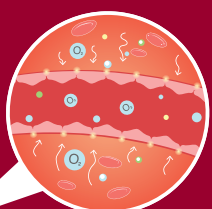
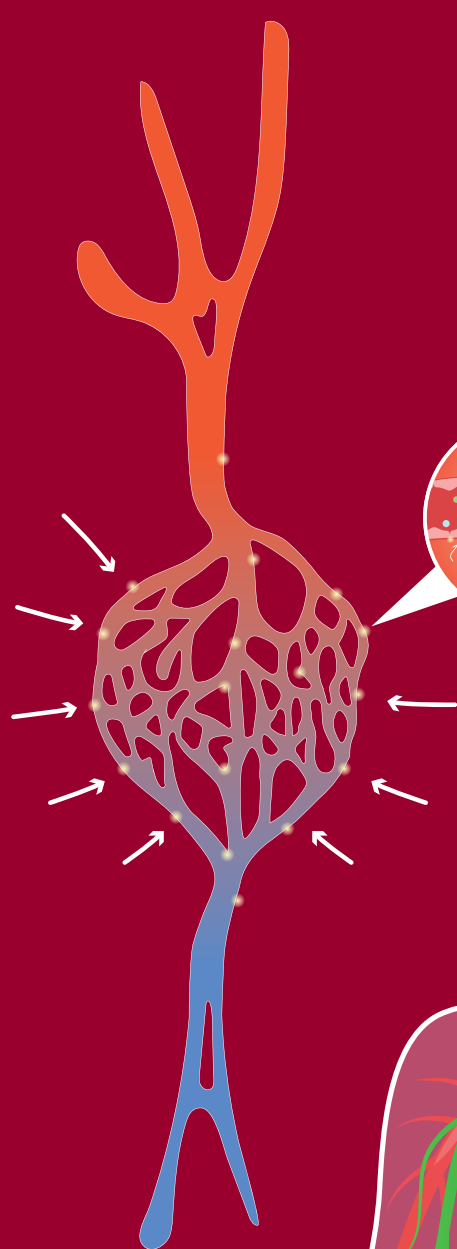
are as thin as a hair, and there are 100.000 km of these **TINY BLOOD VESSELS** inside our body.

## Capillary Permeability

The selective way in which the capillaries allow only **PLASMA** to flow in and out of their walls is called **CAPILLARY PERMEABILITY**.

## Plasma

also helps transport the oxygen released by red blood cells.

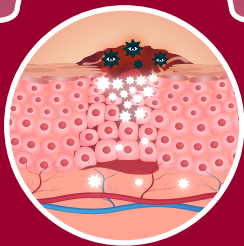


**O<sub>2</sub>**

**CO<sub>2</sub>**

## Health Problems

The disruption of our capillary function can lead to all sorts of **HEALTH CHALLENGES** in terms of our eyesight, mobility, and skin. This is why Professor Masquelier has dedicated so much of his scientific career to the benefits of his OPCs in capillary permeability. In doing so he came to understand that our health and wellbeing is inextricably linked to the functioning of these tiny blood vessels.



## Exchange

The permeability works two ways. CO<sub>2</sub> and waste materials are selectively reabsorbed back into the plasma. The waste materials are taken to organs that excrete them from our system, while CO<sub>2</sub> is delivered back to the lungs.

