

### Anatomy

#### Vascular supply of the brain

2 carotid arteries & 2 vertebral arteries --  
> merge to circle of willis --> pial arteries  
--> penetrating arteries --> penetrating  
arterioles --> intracerebral arterioles -->  
capillaries

#### Capillaries in brain

highly dense: 2500 - 3000 mm<sup>3</sup>, wall is 1  
endothelial cell

#### Blood brain barrier

Semi permeable border of endothelial  
cells

#### The neurovascular unit

#### Astrocytes

### Physiology

### Nutrient and metabolite transport

### Blood-CNS barriers & diseases

### Extra lecture info

#### Paul Ehrlich

Trypan Blue, Intravenous injection: Body  
stained, CNS unstained

#### E. Goldmann

Trypan Blue, Intravenous injection: Body  
stained, CNS unstained BUT intracere-  
broventricular: CNS stained, Body  
unstained

#### Anatomy of blood brain barrier confirmed as at level of capillaries

Electron microscopy, macromolecular  
tracers (e.g horseradish peroxidase)



By **mallowy**  
[cheatography.com/mallowy/](https://cheatography.com/mallowy/)

Not published yet.  
Last updated 26th March, 2022.  
Page 1 of 1.

Sponsored by **CrosswordCheats.com**  
Learn to solve cryptic crosswords!  
<http://crosswordcheats.com>