

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 mm³, 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/

Not published yet.

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