

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 intracerebroventricular: CNS stained, Body unstained

Anatomy of blood brain barrier confirmed as at level of capillaries

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

C

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