



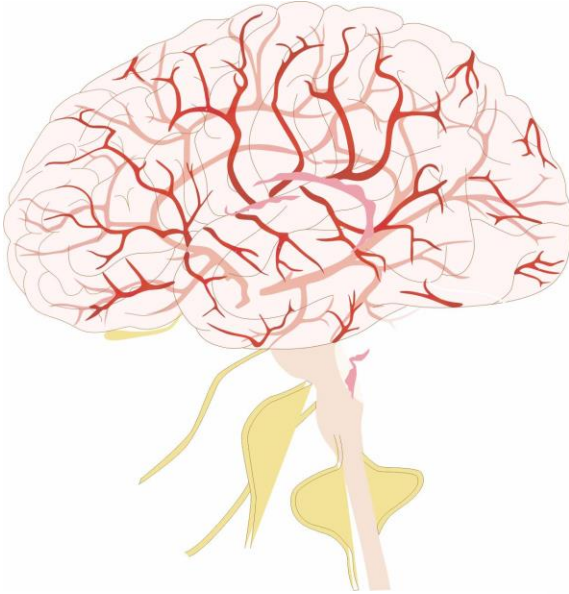
The brain-body long-range  
volume transmission:

Ependymoglia regulate cerebrospinal  
fluid flow to the peripheral organs

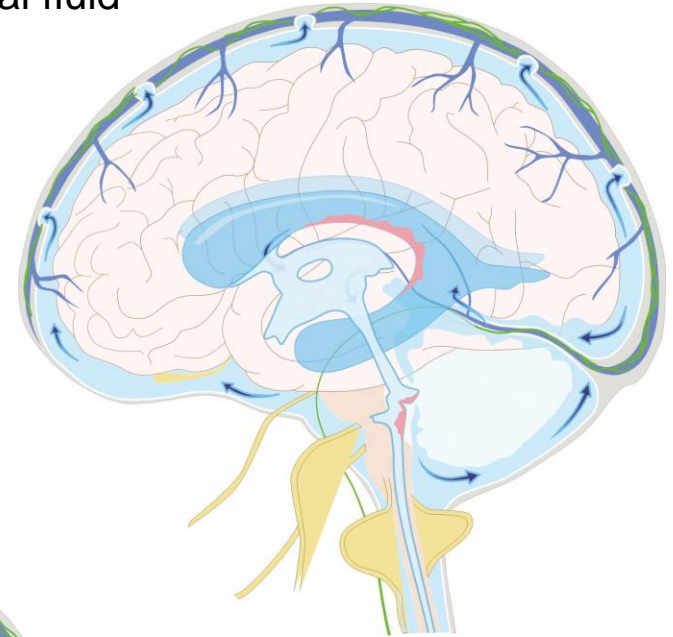


# Central nervous system: Fluids and barriers

Brain vasculature



Cerebrospinal fluid



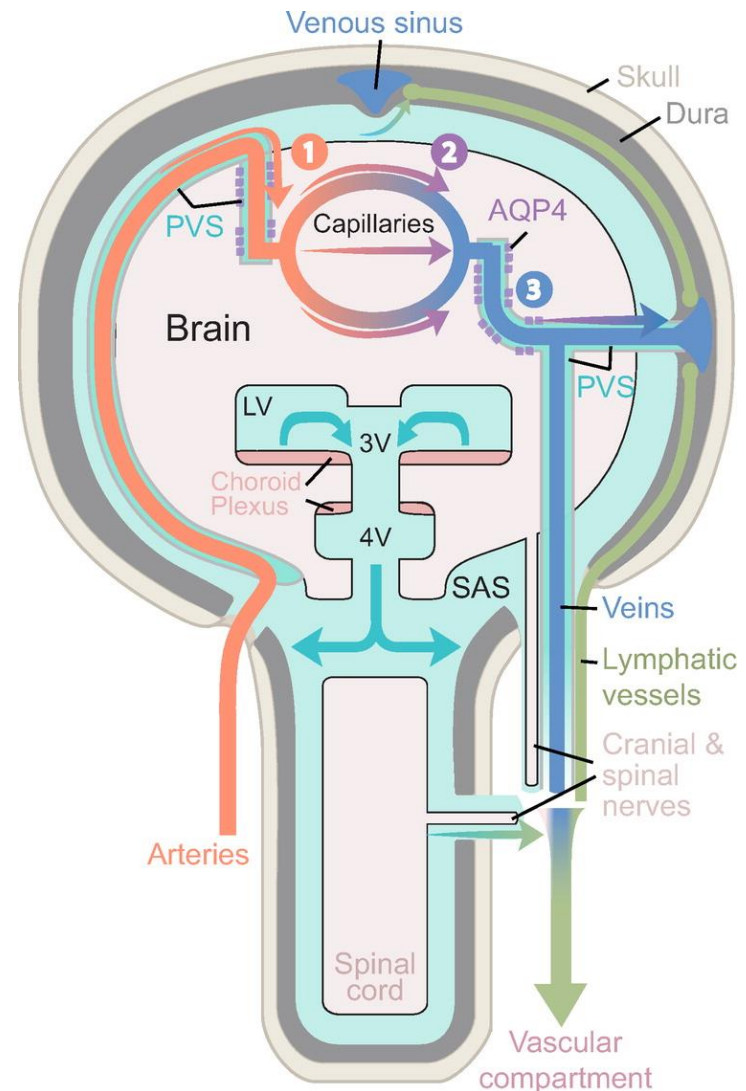
Brain networks





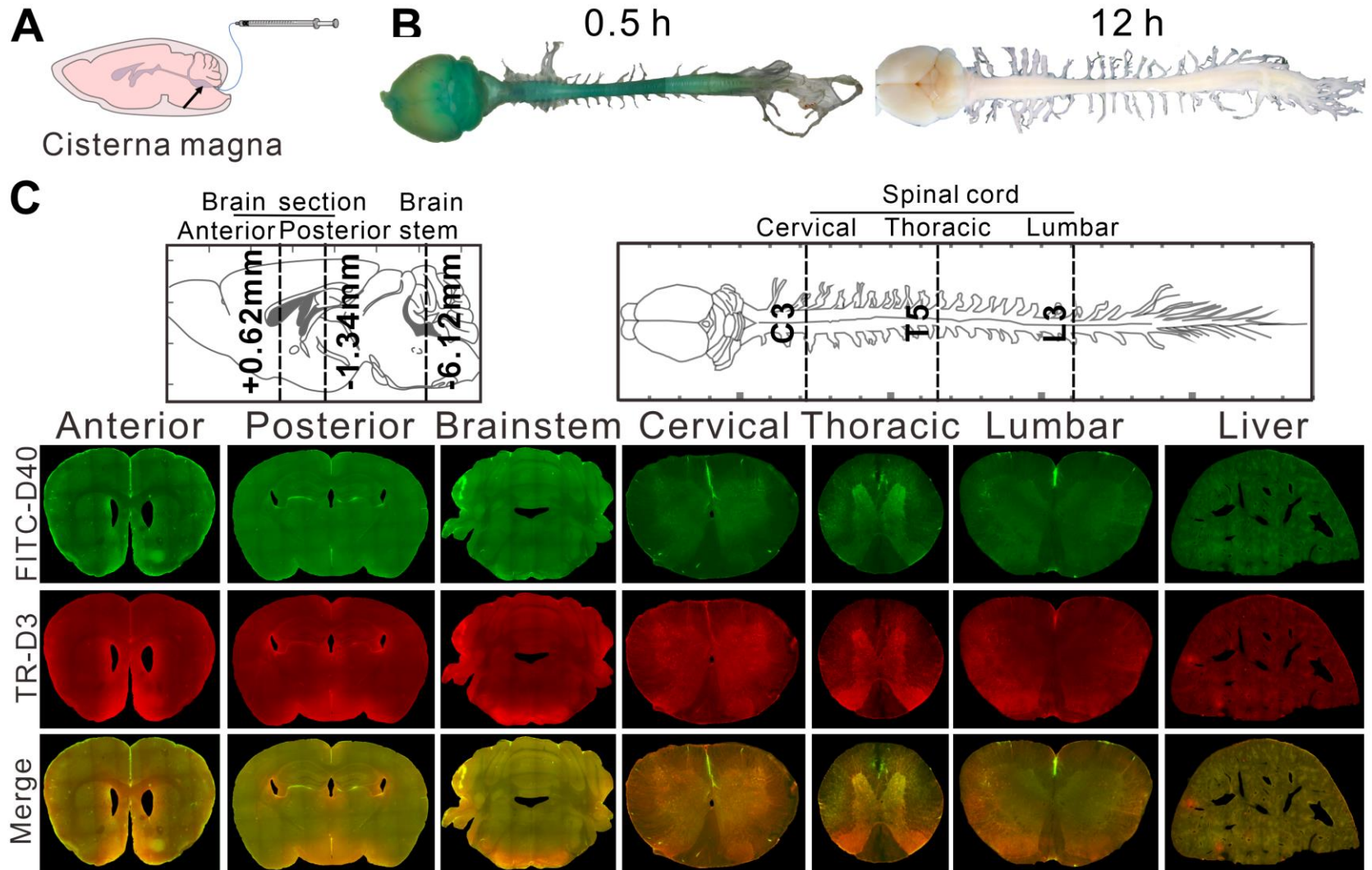
# The drainage of the cerebrospinal fluid

How the large amount of CSF is drained to keep the stability of intracranial pressure is incompletely understood. Classically, the CSF is known to leave the fourth ventricle at three locations, the foramina of Magendie (median aperture) and Luschka (lateral apertures) to drain into the subarachnoid space. Alternatively, a fraction of the CSF travels along the central canal of the spinal cord or along subarachnoid space of the latter. The drainage through peripheral nerves was suggested but never studies in detail.





# Fluorescent tracers (3 or 40 kDa) reach the liver after injection into Cisterna Magna





# Ependymoglial gate regulates CSF flow to the periphery

