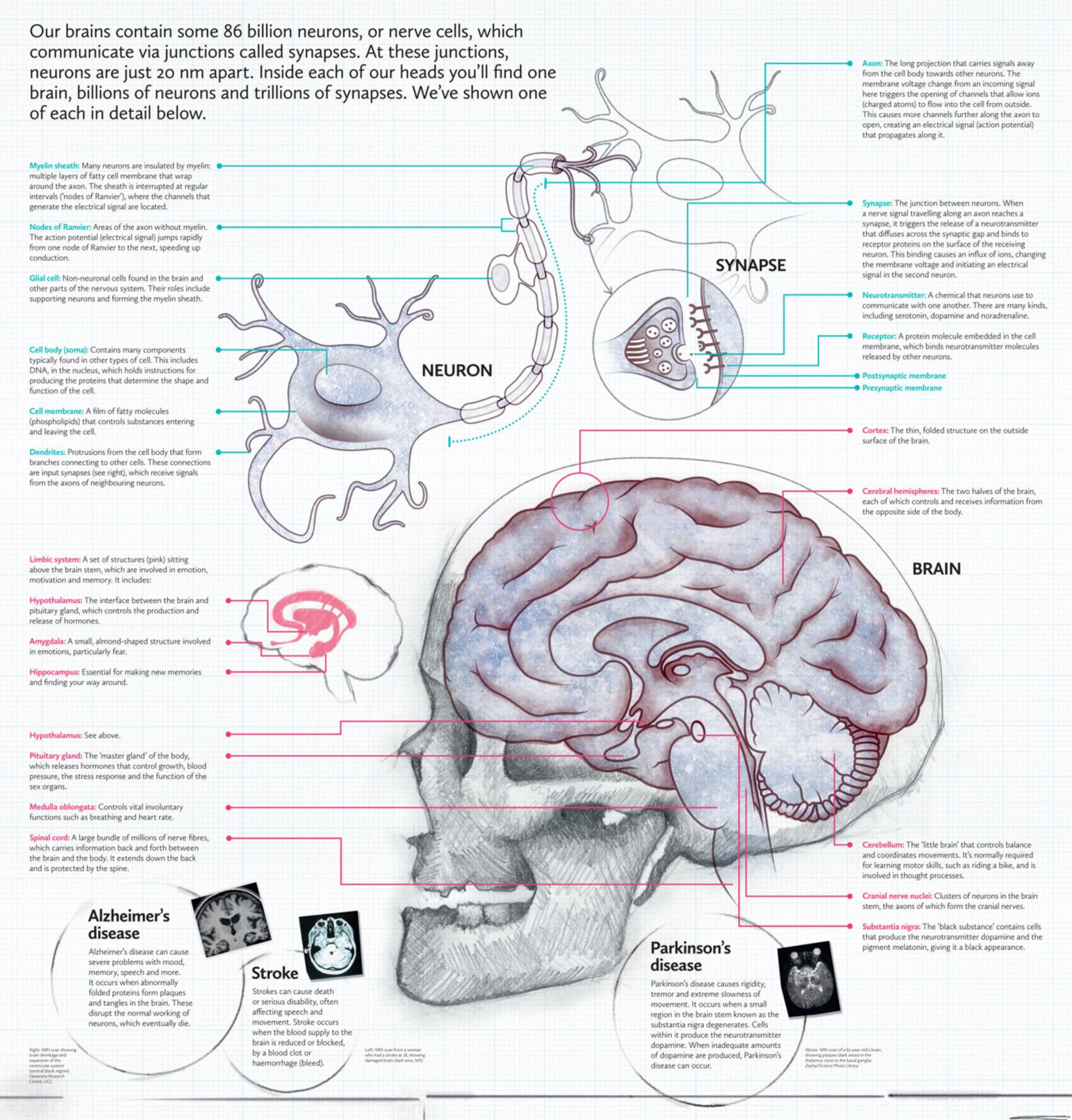
Inside the brain

BigPicture



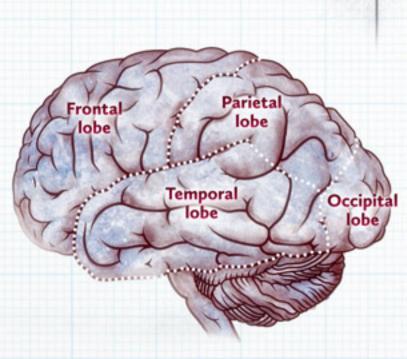
KNOW YOUR LOBES

The frontal lobe performs complex mental tasks such as making abstract judgements and decisions, thinking about the future, paying attention and inhibiting behaviour (so-called 'executive functions'). It is also involved in short-term memory, language and movement.

The parietal lobe processes information from the body and senses, and integrates it to help orient the body and carry out movement in space.

The occipital lobe is the part of the brain that manages vision, containing dozens of areas that are specialised for processing inputs from the eyes.

The temporal lobe contains areas specialised for processing sound, language and memory. It is involved in mood, appetite, sleep and learning.



KNOW YOUR NEUROTRANSMITTERS

Scrotonin NH2

Made in the central nervous

system, but mostly found in the

like body temperature, mood,

appetite and sleep. Drugs to

to treat depression.

gut, serotonin is involved in things

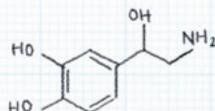
increase serotonin levels are used

HO NH₂

Dopamine

Involved in the control of movement, posture and mood. L-dopa (the precursor to dopamine and noradrenaline) is used to treat Parkinson's disease.

Noradrenaline



As a neurotransmitter,

and heart rate.

noradrenaline influences

It is also a hormone, which

emotions, sleeping and learning.

affects blood vessel contraction

A neurotransmitter in the cent

A neurotransmitter in the central and peripheral nervous system. Drugs to increase acetylcholine levels are sometimes used to treat Alzheimer's disease.



Big Picture is a free post-16 resource for teachers that explores issues around biology and medicine. www.wellcome.ac.uk/bigpicture/brain/poster

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