

Environment

organ

system

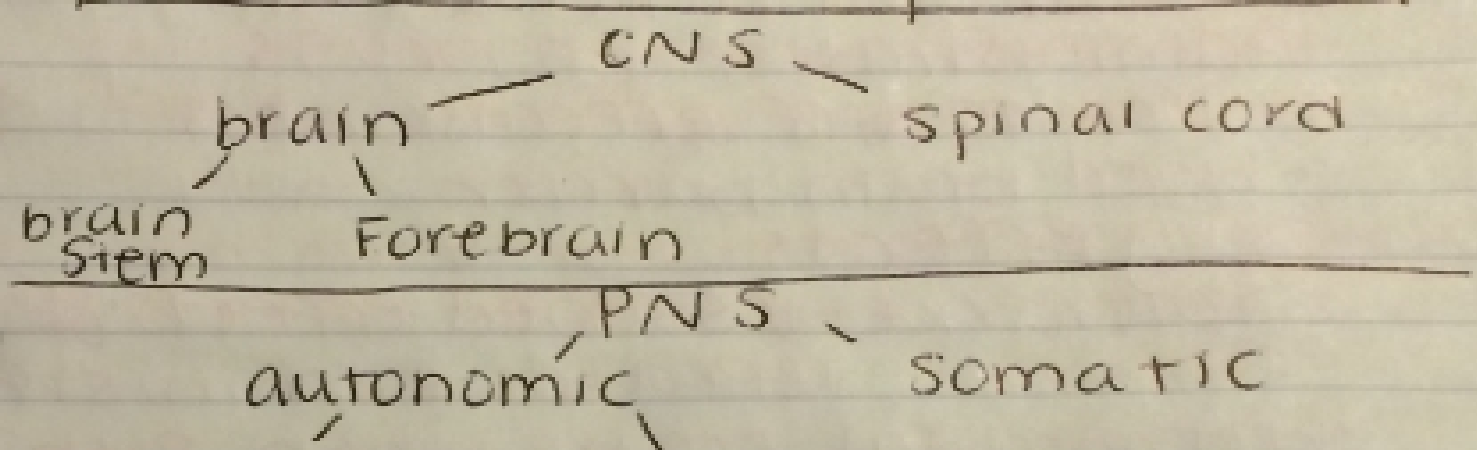
circuit

cellular

synaptic

molecular

	PNS	CNS
Bundles of axons	Nerve	Tract
Group of cell bodies	Ganglion	Nucleus



- S - sensory
- A - afferent - arrive CNS
- M - motor
- E - efferent - exit CNS

sympathetic  
Fight/Flight

parasympathetic  
cool down

cranial nerves

- fMRI - functional
- MRI - structural
- CT - structural
- PET - functional
- EEG

1. old... olfactory... some
2. ophan... optic... say
3. occasionally... oculomotor... marry  
brat
4. travels... trochlear... money
5. to... trigeminal... but
6. Africa... abducens... my
7. for... facial... brother
8. very... vestibulocochlear... says
9. good... glossopharyngeal... big
10. vacations... vagus... brains
11. Sand... spinal accessory... matter
12. Holidays... hypoglossal... most

Tyrosine  
Hydroxylase

L Dopa

Dopamine

norepinephrine

epinephrine

## Cranial nerves

- 1 some - sensory - olfactory - smell
- 2 say - sensory - optic - vision
- 3 marry - motor - oculomotor
- + money - motor - trochlear
- 5 but - both - trigemina
- 6 my - motor - Abducens
- 7 brother - both - Facial - facial movement + taste
- 8 says - sensory - vestibulocochlear
- 9 big - both - glossopharyngeal
- 10 brains - both - vagus
- 11 matter - motor - spinal accessory
- 12 most - motor - hypoglossal

eyemovement  
Face sensation

