

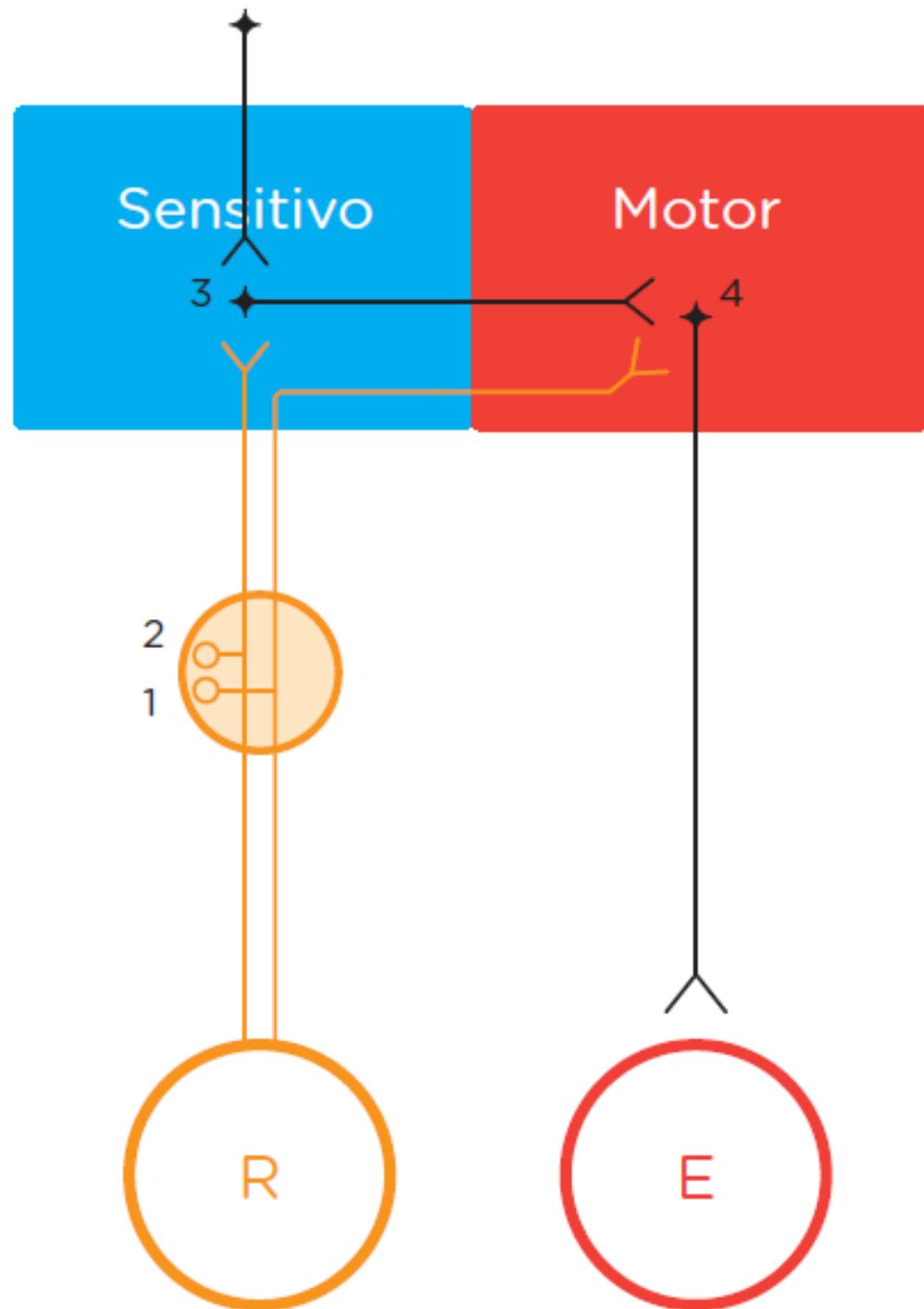
Organización General del Sistema Nervioso

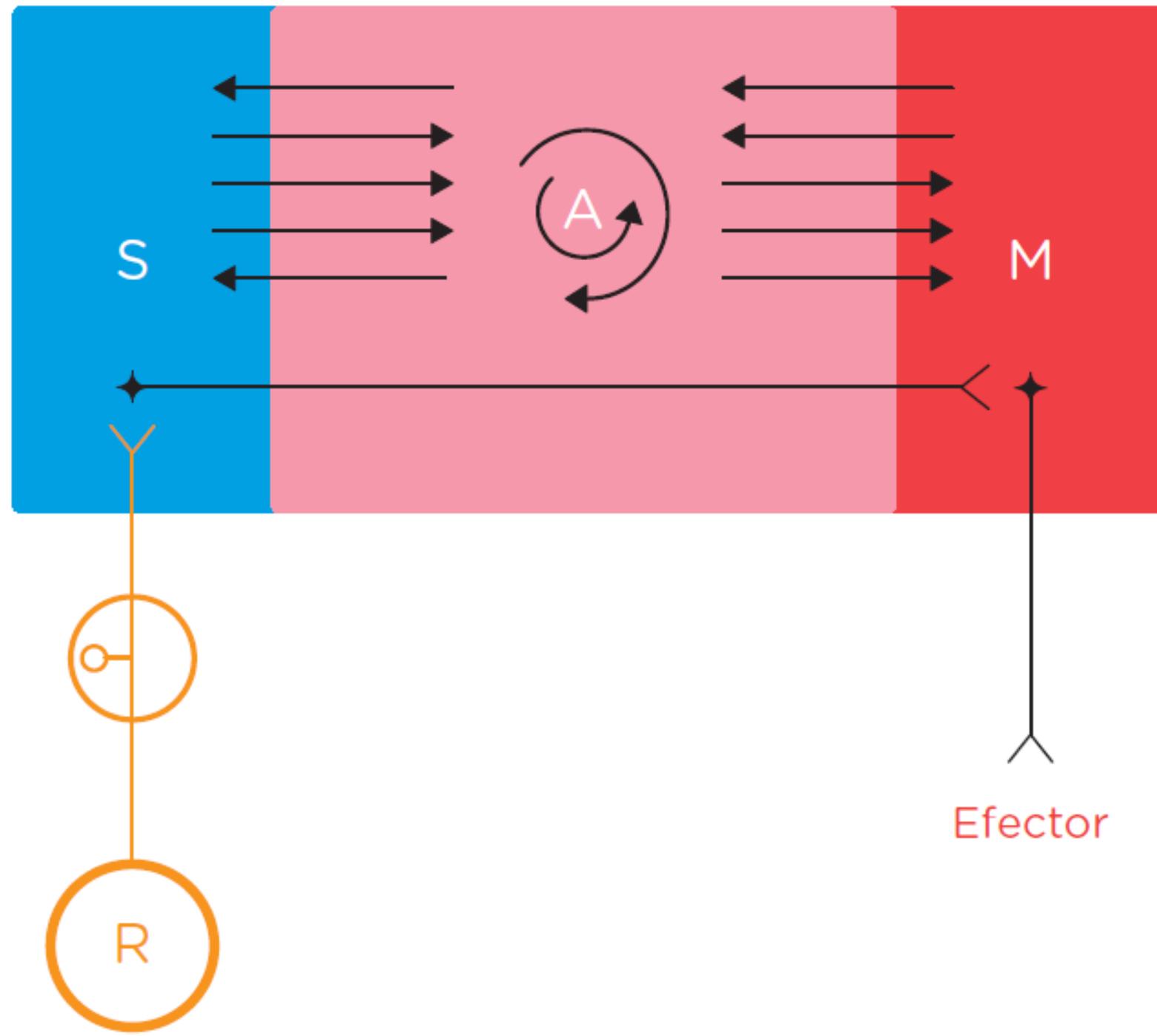
Nelson D. Villalba M.D. M.Sc.



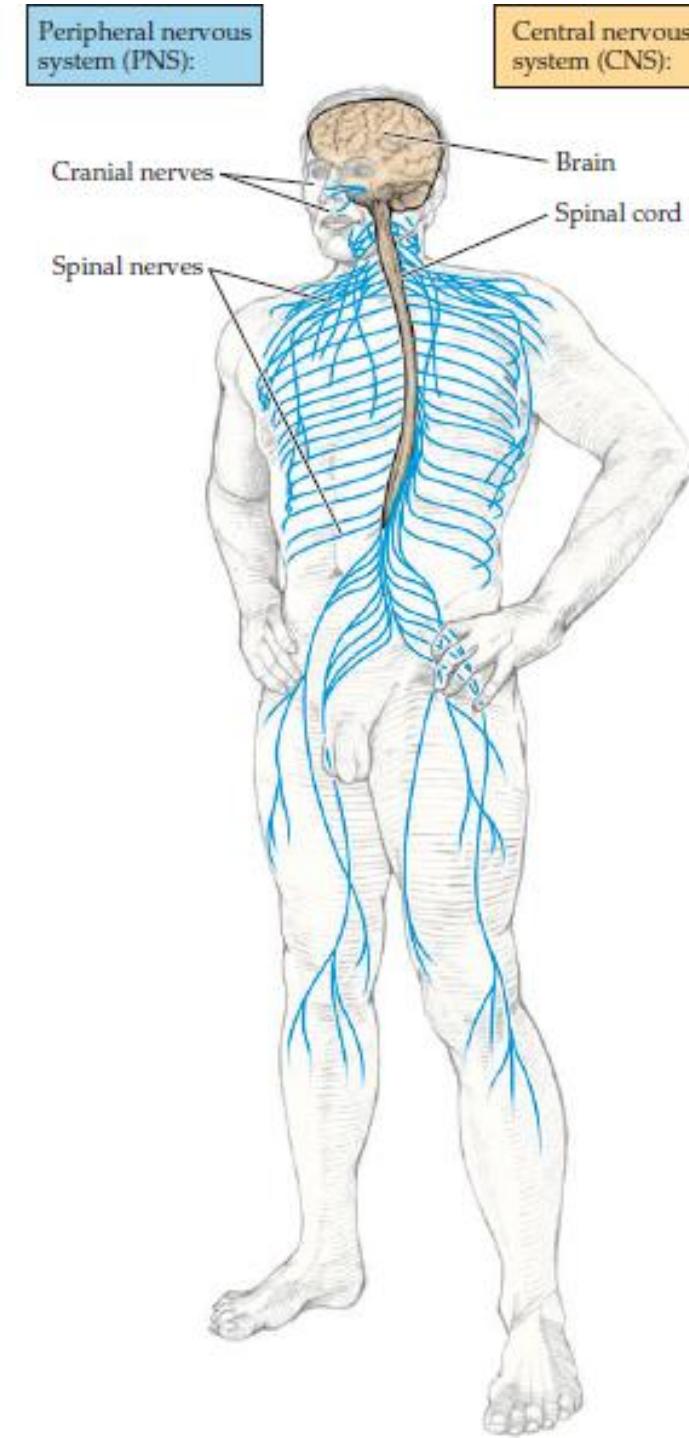




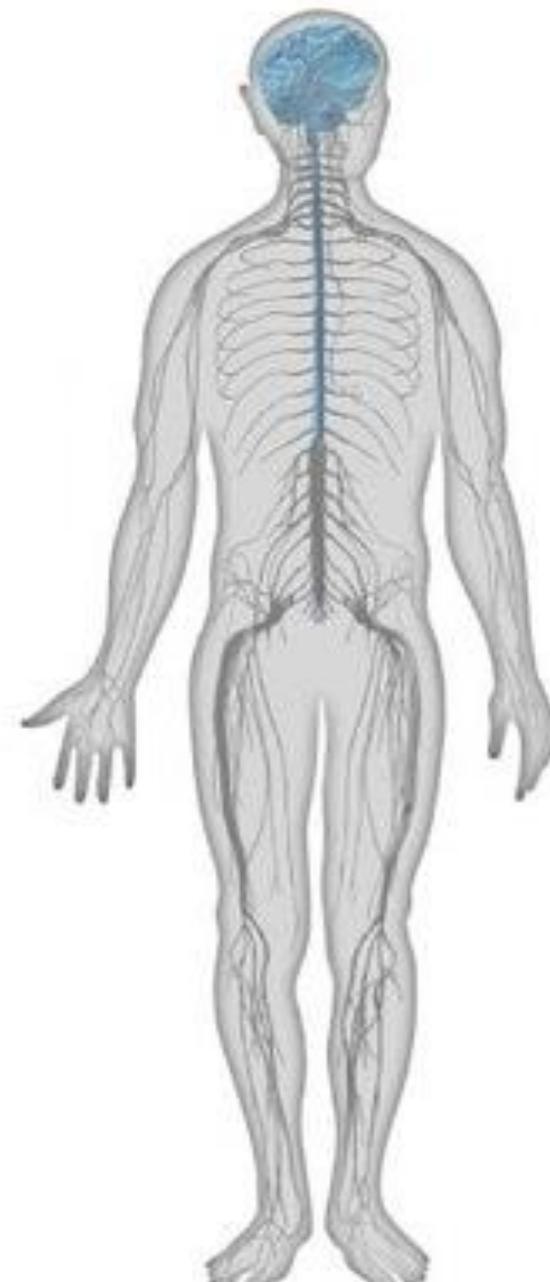




Clasificación Sistema Nervioso



Clasificación Sistema Nervioso



Central



Periférico

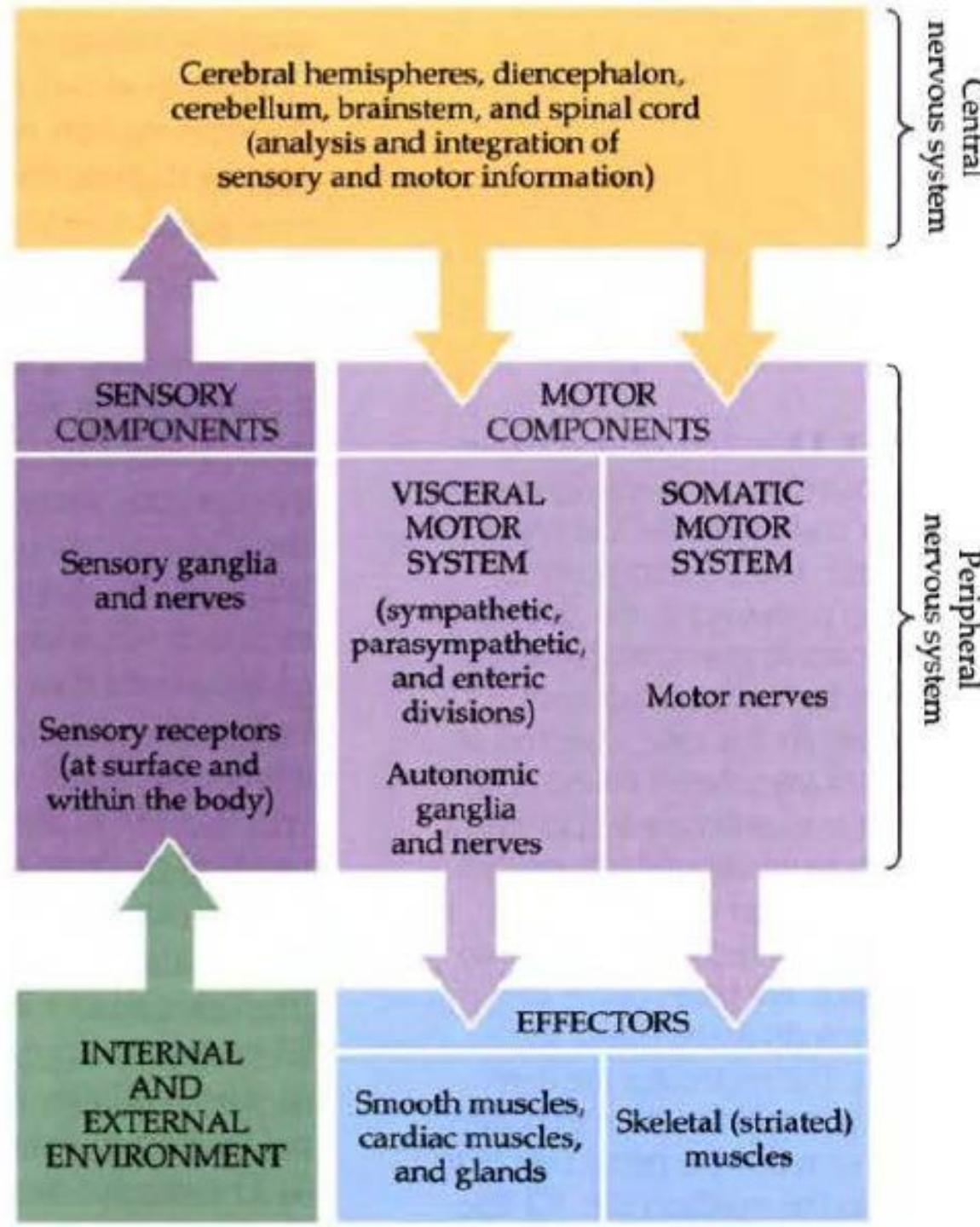
Clasificación Sistema Nervioso



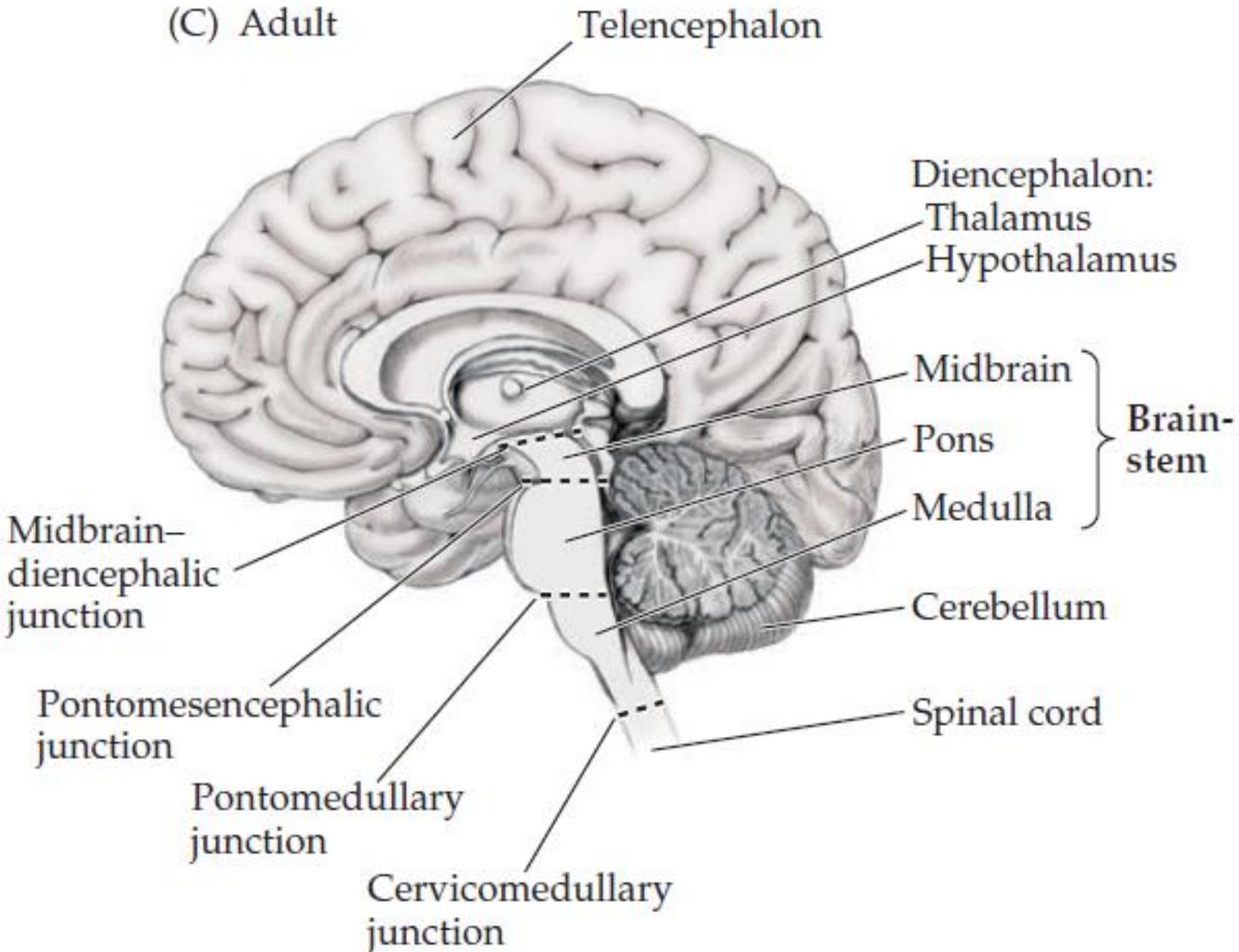
Central



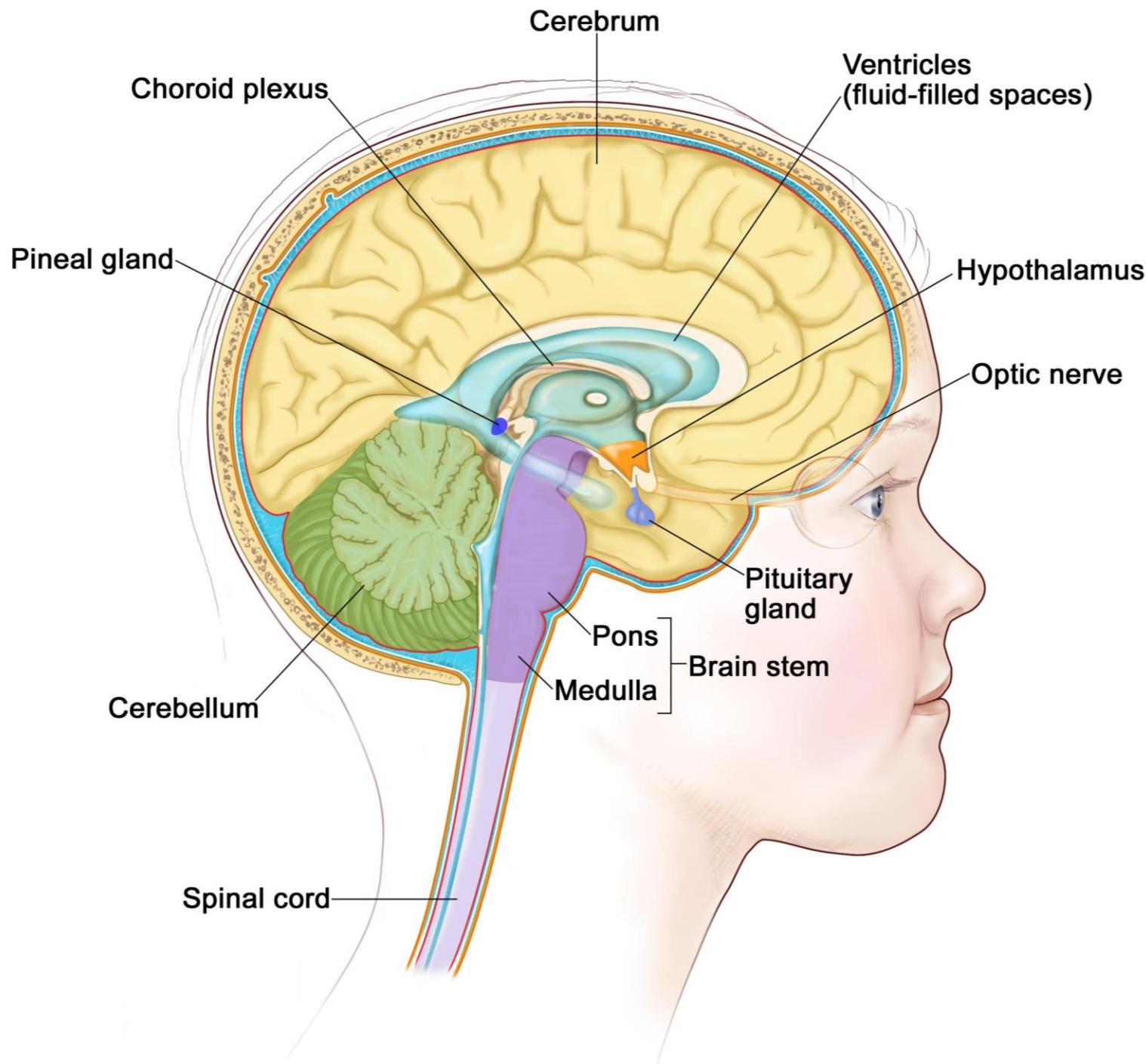
Periférico



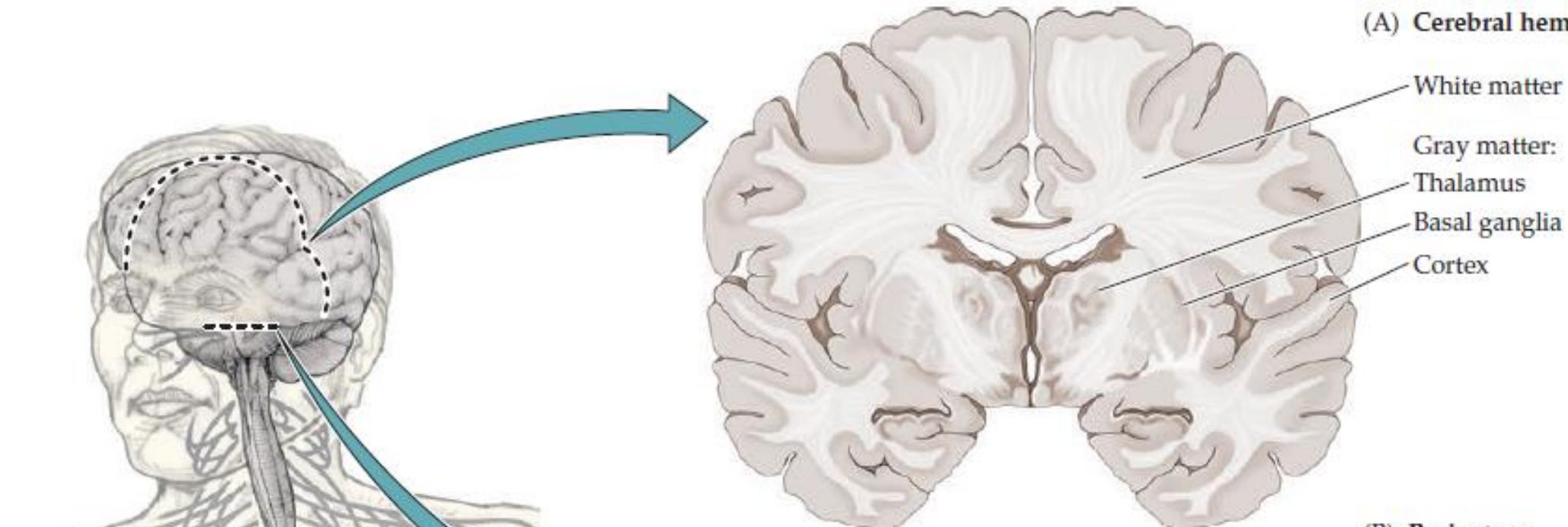
(C) Adult



Sistema Nervioso Central



(A) Cerebral hemispheres



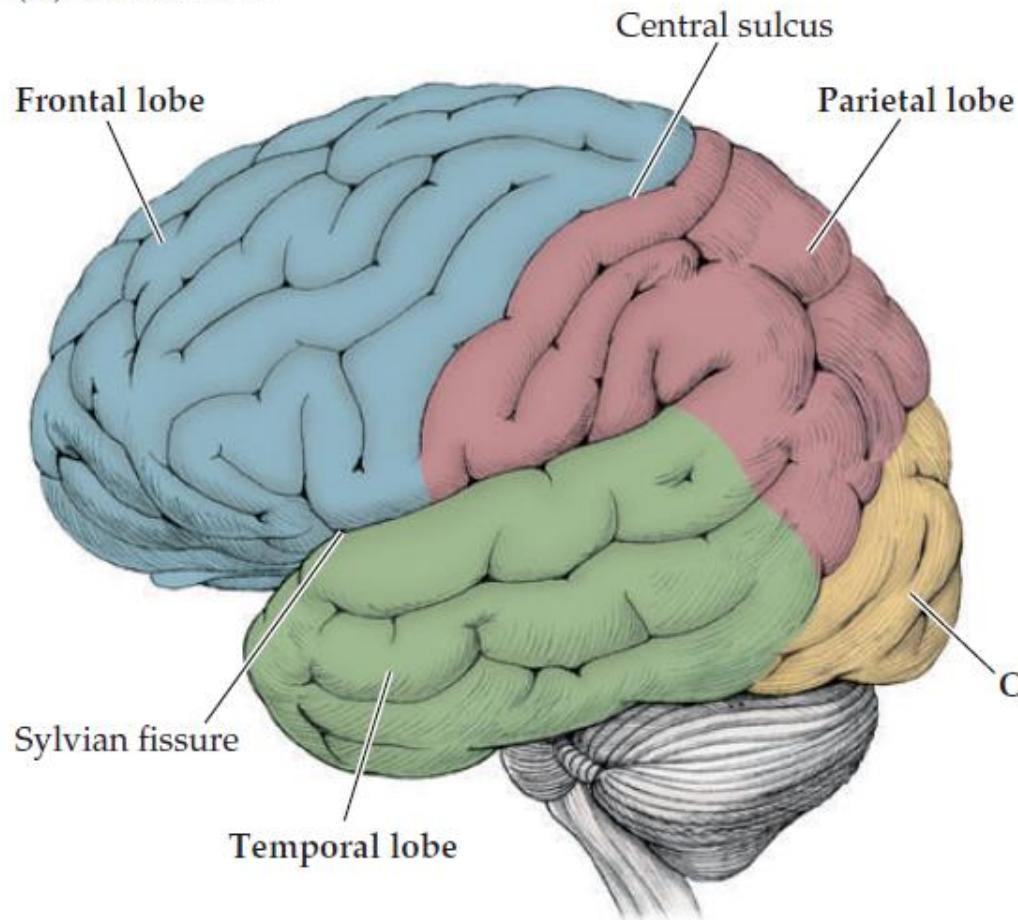
(B) Brainstem



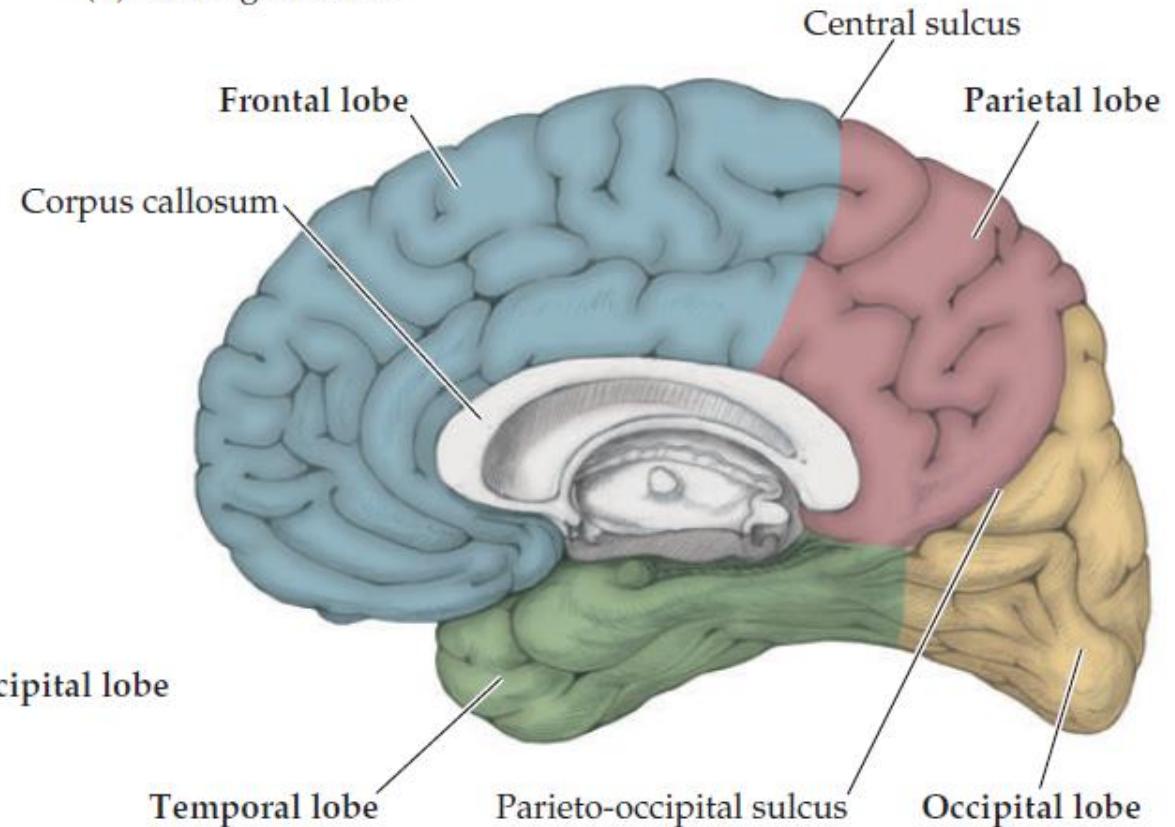
(C) Spinal cord

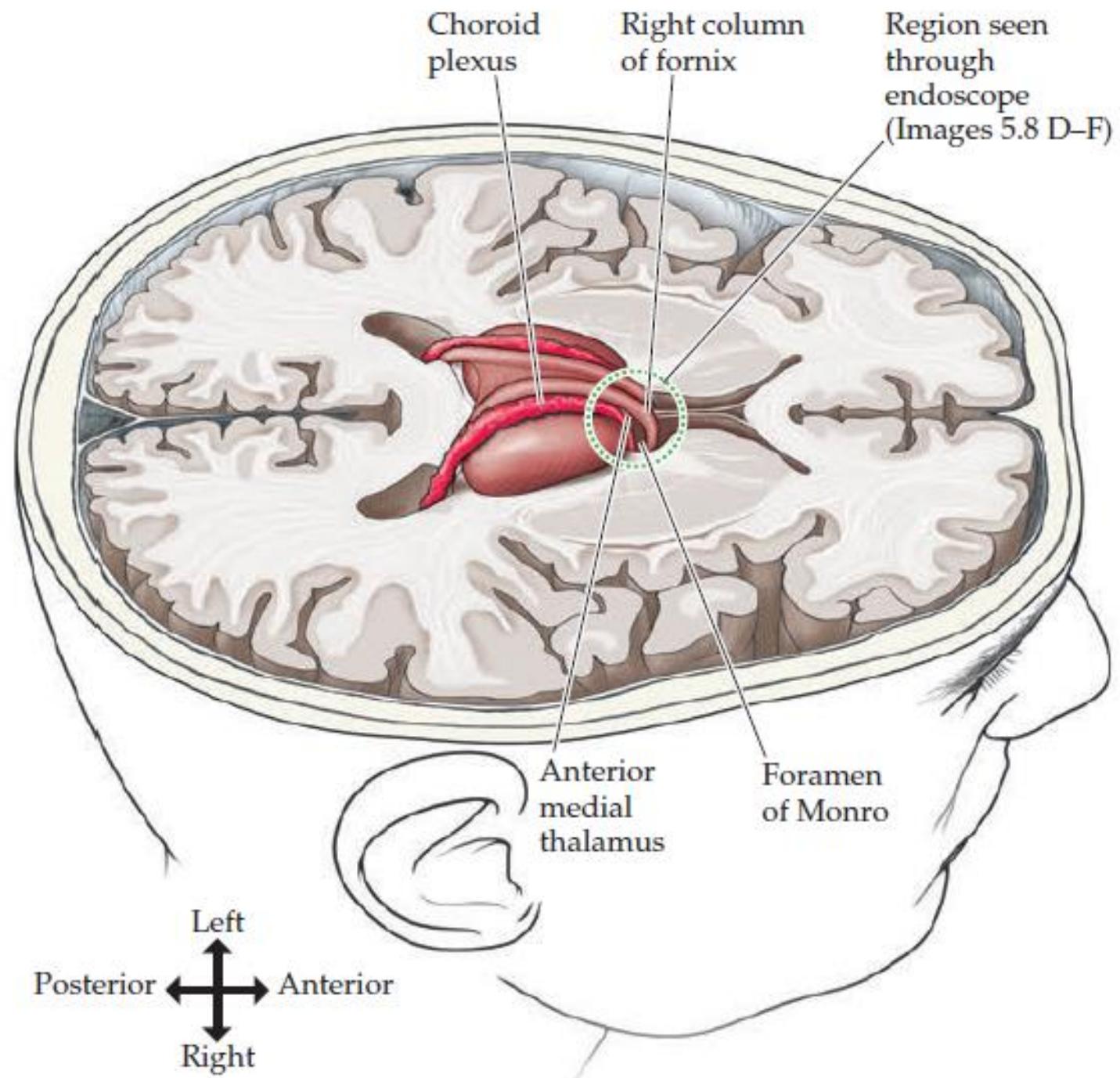


(A) Lateral view

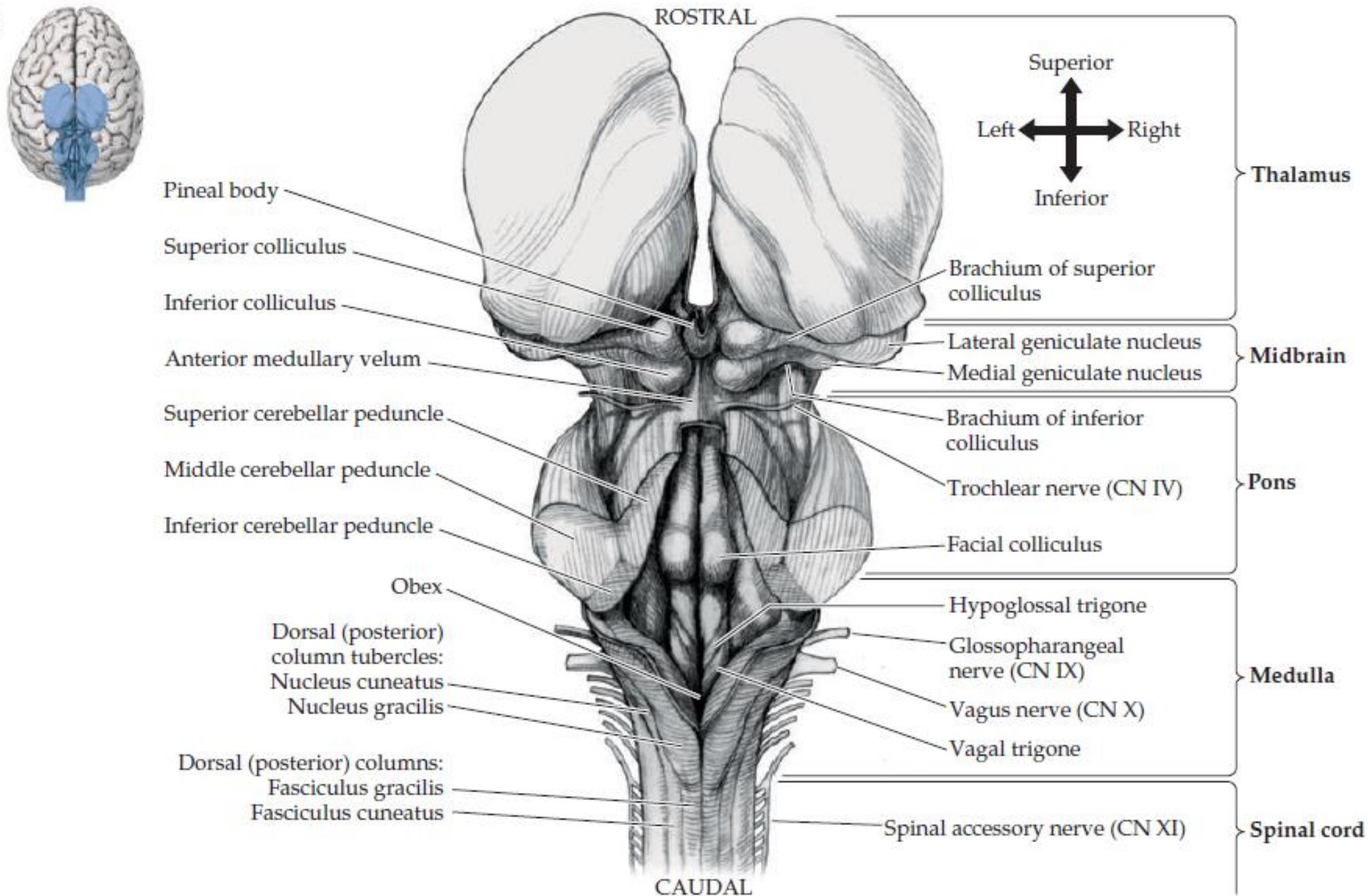


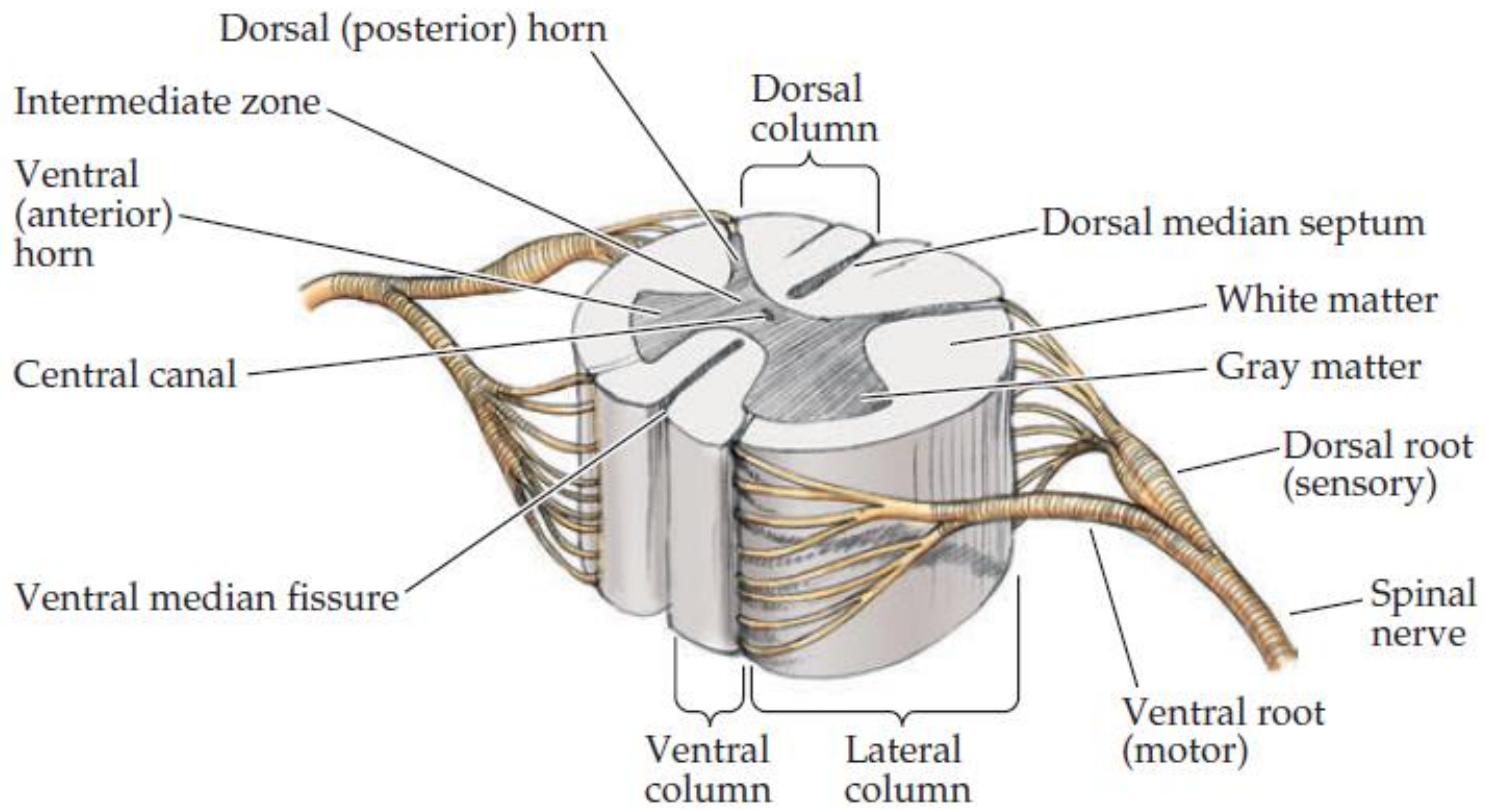
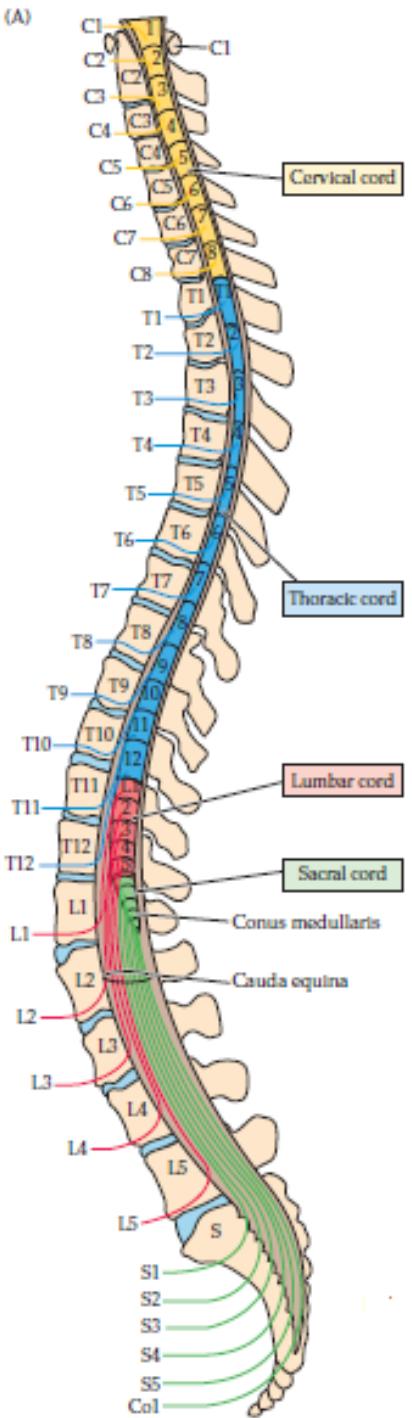
(B) Midsagittal view





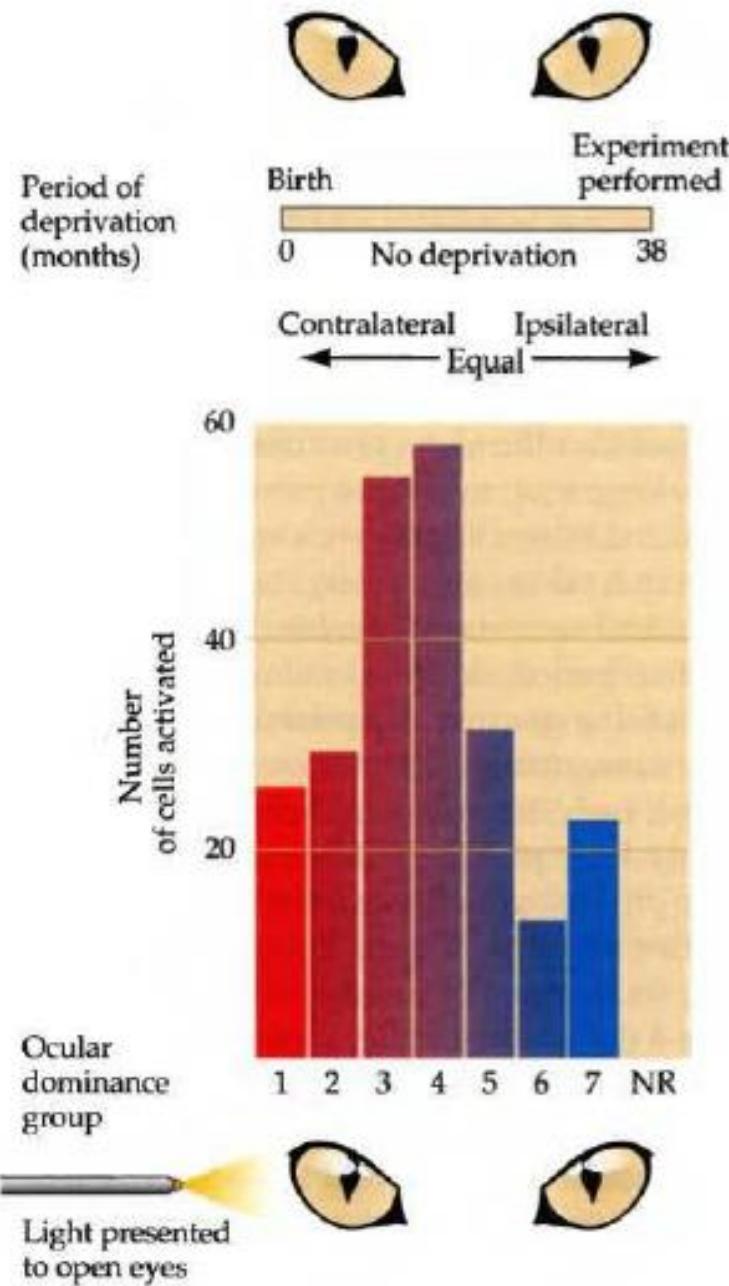
(B)



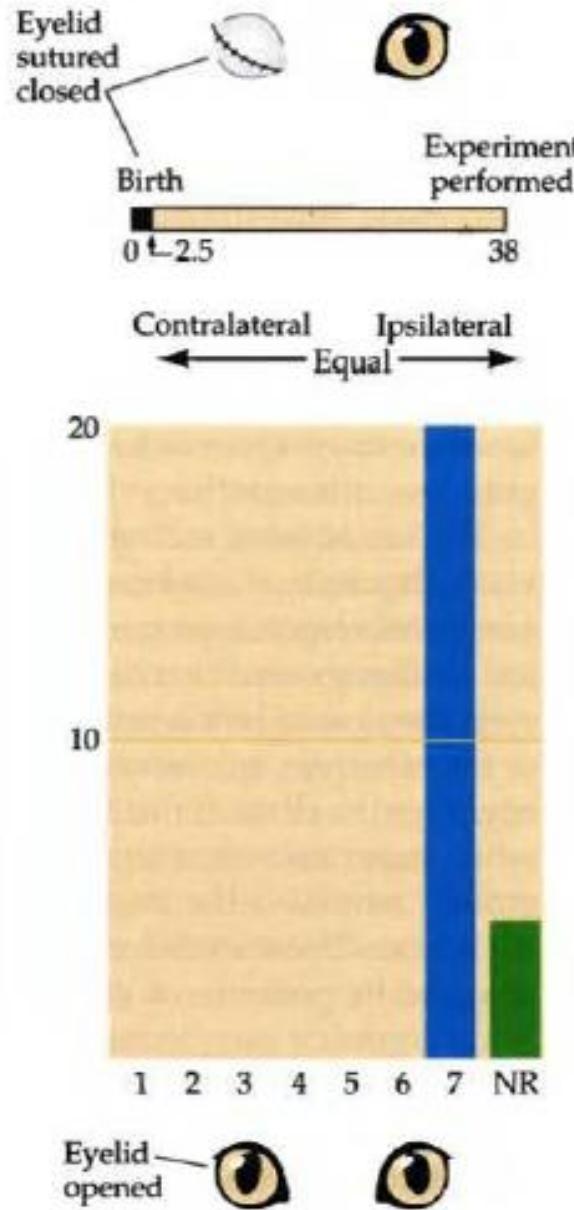


Sistema Dinámico

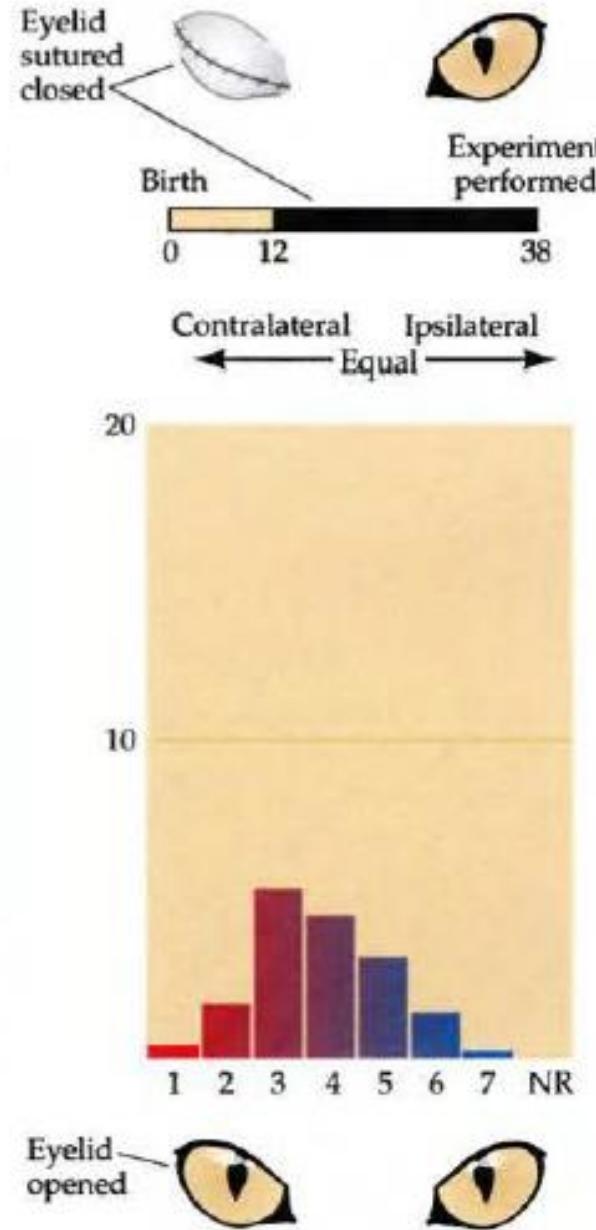
(A) Normal adult



(B) Monocular deprivation in kitten

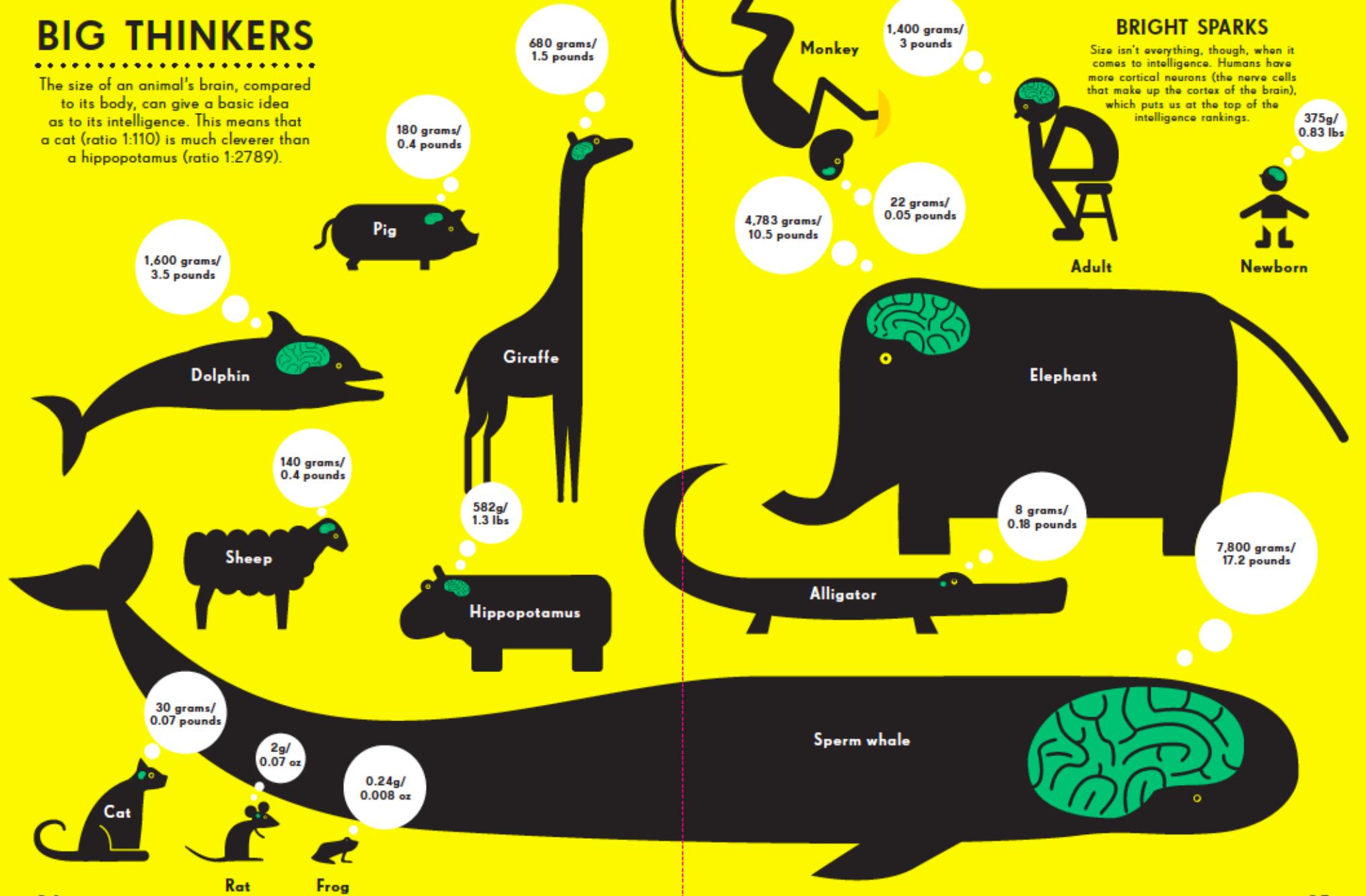


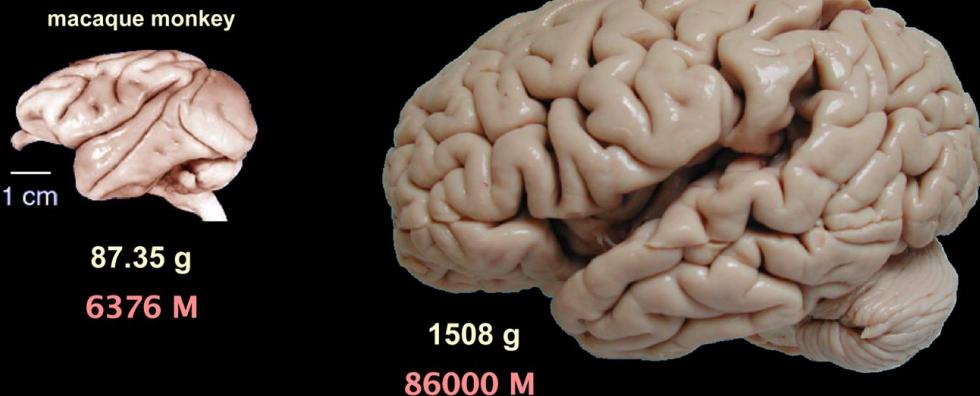
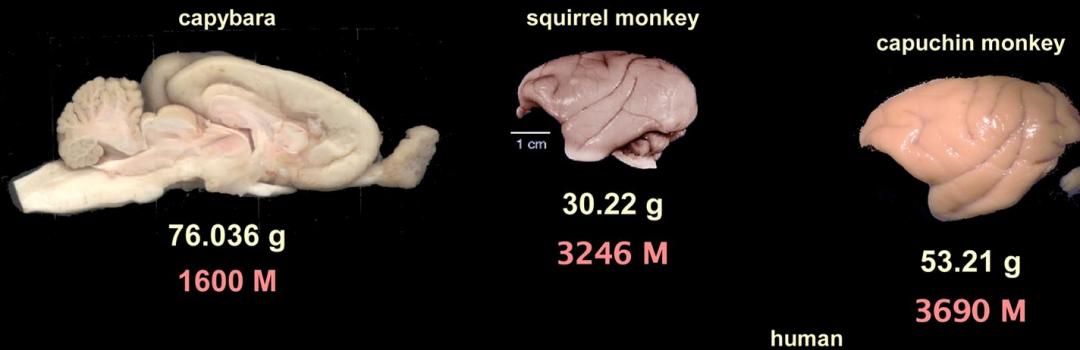
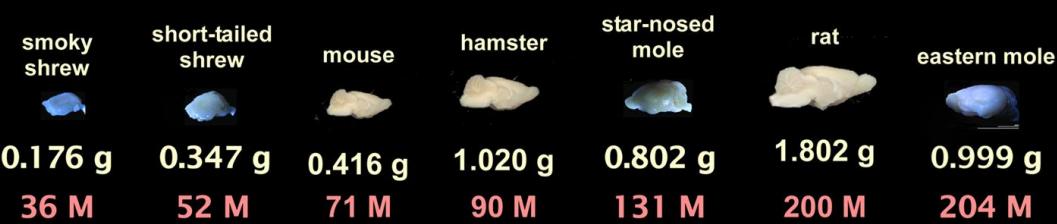
(C) Monocular deprivation in adult

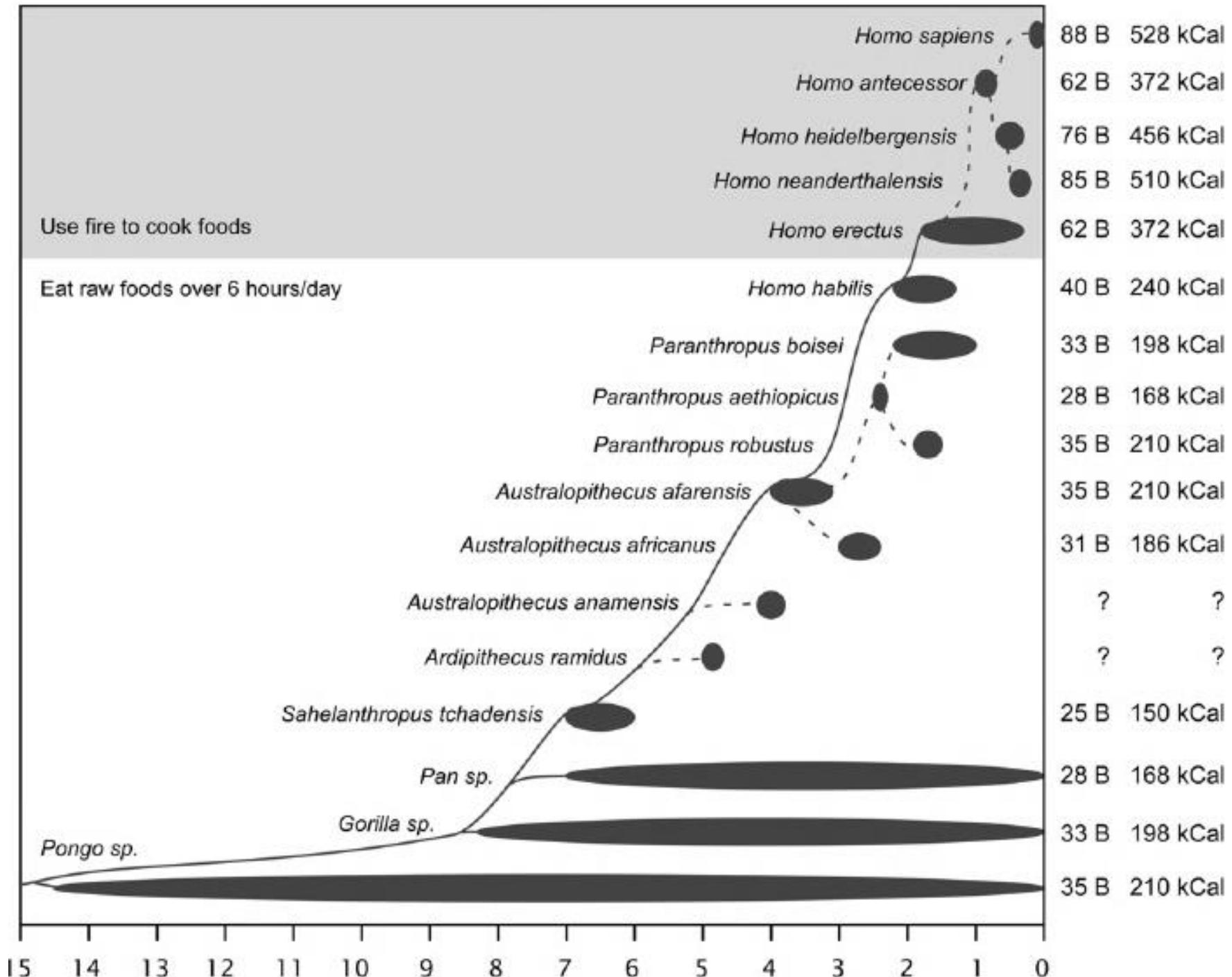


BIG THINKERS

The size of an animal's brain, compared to its body, can give a basic idea as to its intelligence. This means that a cat (ratio 1:110) is much cleverer than a hippopotamus (ratio 1:2789).







5 cm



Capybara



Rhesus
Macaque



Western
Gorilla



Human



African Bush
Elephant

non-primate

primate

primate

primate

non-primate

48.2 g

69.8 g

377 g

1232 g

2848 g

0.3

billion
neurons

1.71

billion
neurons

9.1

billion
neurons

16.3

billion
neurons

5.59

billion
neurons

Whole brain

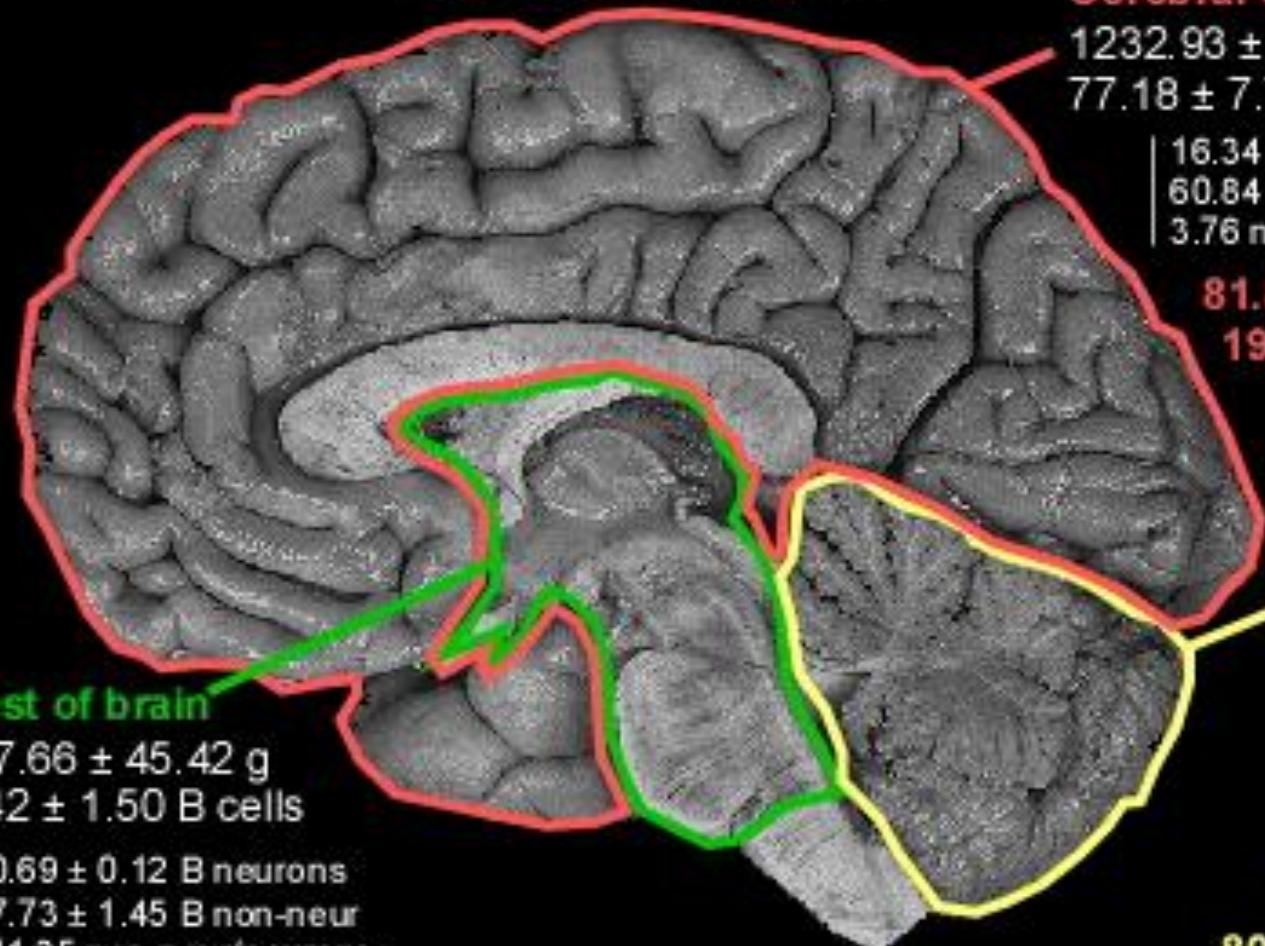
1508.91 ± 299.14 g

170.68 ± 13.86 B cells

86.06 ± 8.12 B neurons

84.61 ± 9.83 B non-neur

0.99 non-neur/neurons



Cerebral cortex (GM+WM)

1232.93 ± 233.68 g

77.18 ± 7.72 B cells

16.34 ± 2.17 B neurons

60.84 ± 7.02 B non-neur

3.76 non-neur/neurons

81.8% of brain mass

19.0% of brain neurons

Cerebellum

154.02 ± 19.29 g

85.08 ± 6.92 B cells

69.03 ± 6.65 B neurons

16.04 ± 2.17 B non-neur

0.23 non-neur/neurons

10.3% of brain mass

80.2% of brain neurons

Rest of brain

117.66 ± 45.42 g

8.42 ± 1.50 B cells

0.69 ± 0.12 B neurons

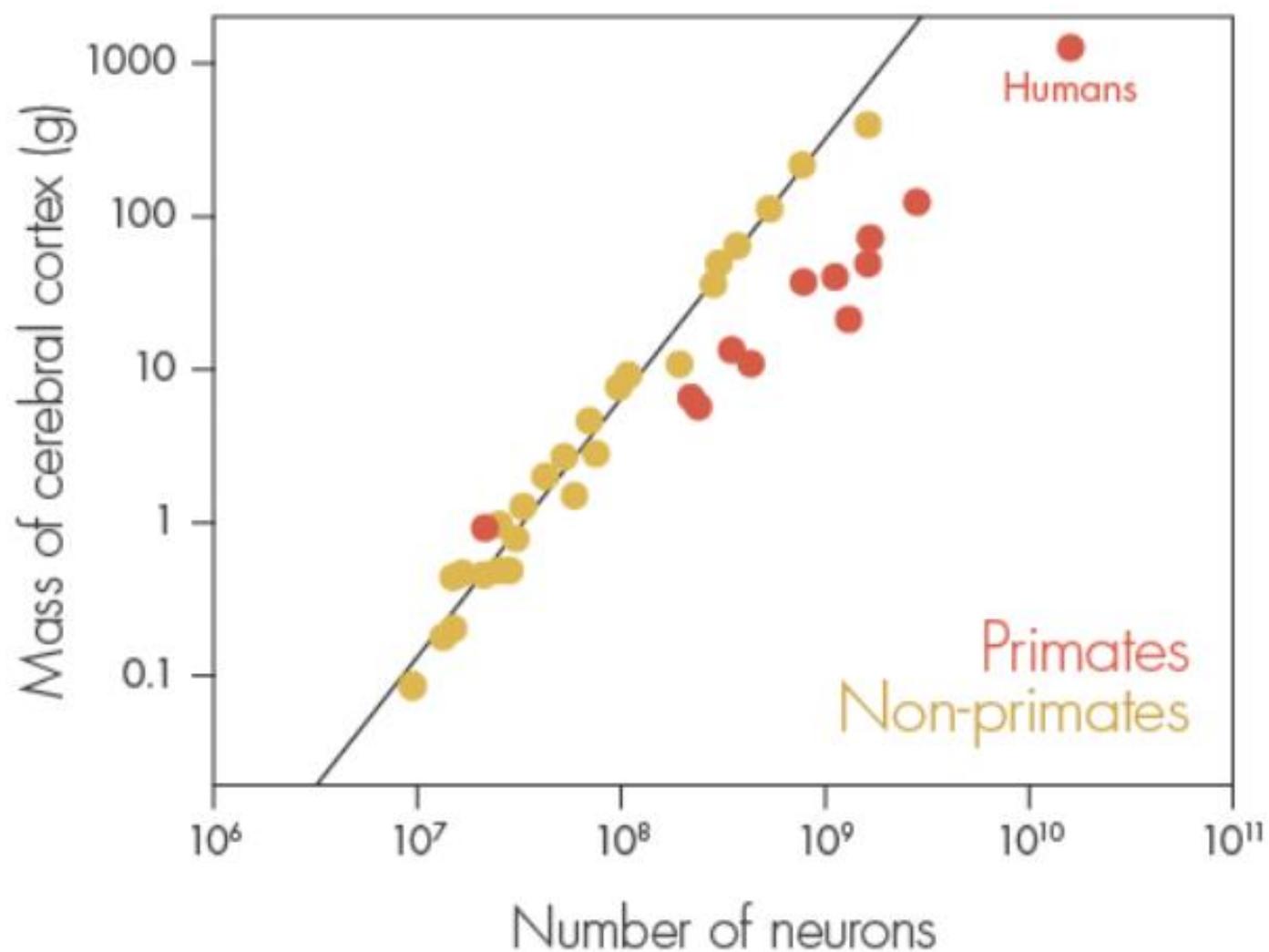
7.73 ± 1.45 B non-neur

11.35 non-neur/neurons

7.8% of brain mass

0.8% of brain neurons

BRAIN DENSITY



UN PAJARITO ME CONTÓ
UN SECRETO DE ALGUIEN...



MATÉ AL PAJARITO.
NADIE TIENE POR QUÉ ANDAR HABLANDO DE NADIE.

