

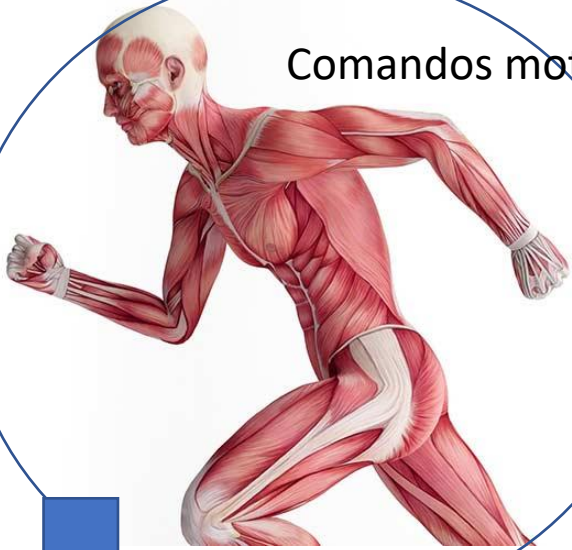
Integración de Sistema Motor

Ej. Control Postural
Integrando los conceptos
Aportes Predictivos y Redes Distribuidas

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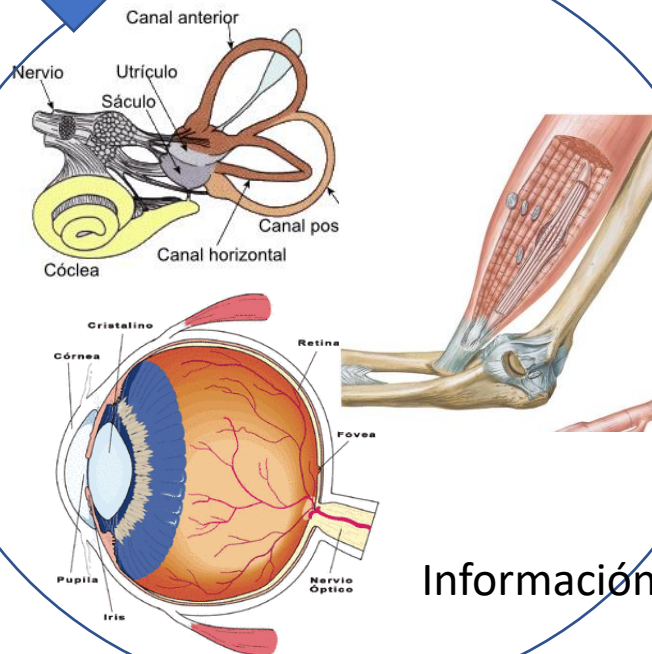
Comandos motores



Copia eferente o
Descarga Corolaria

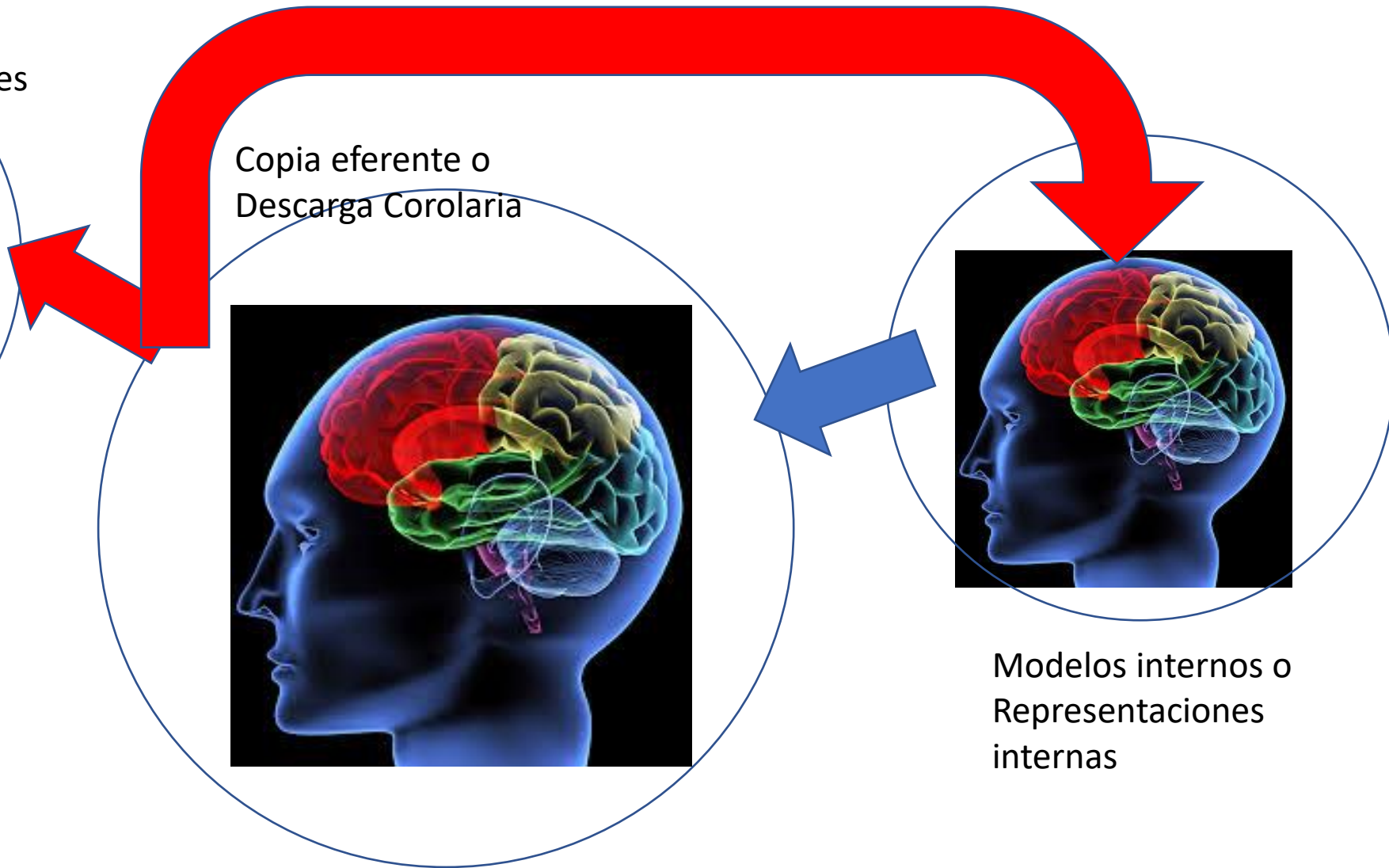
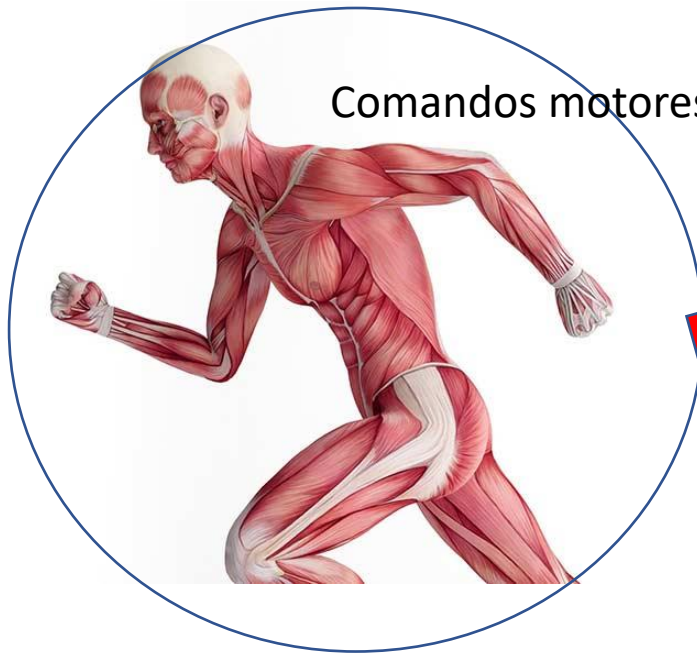


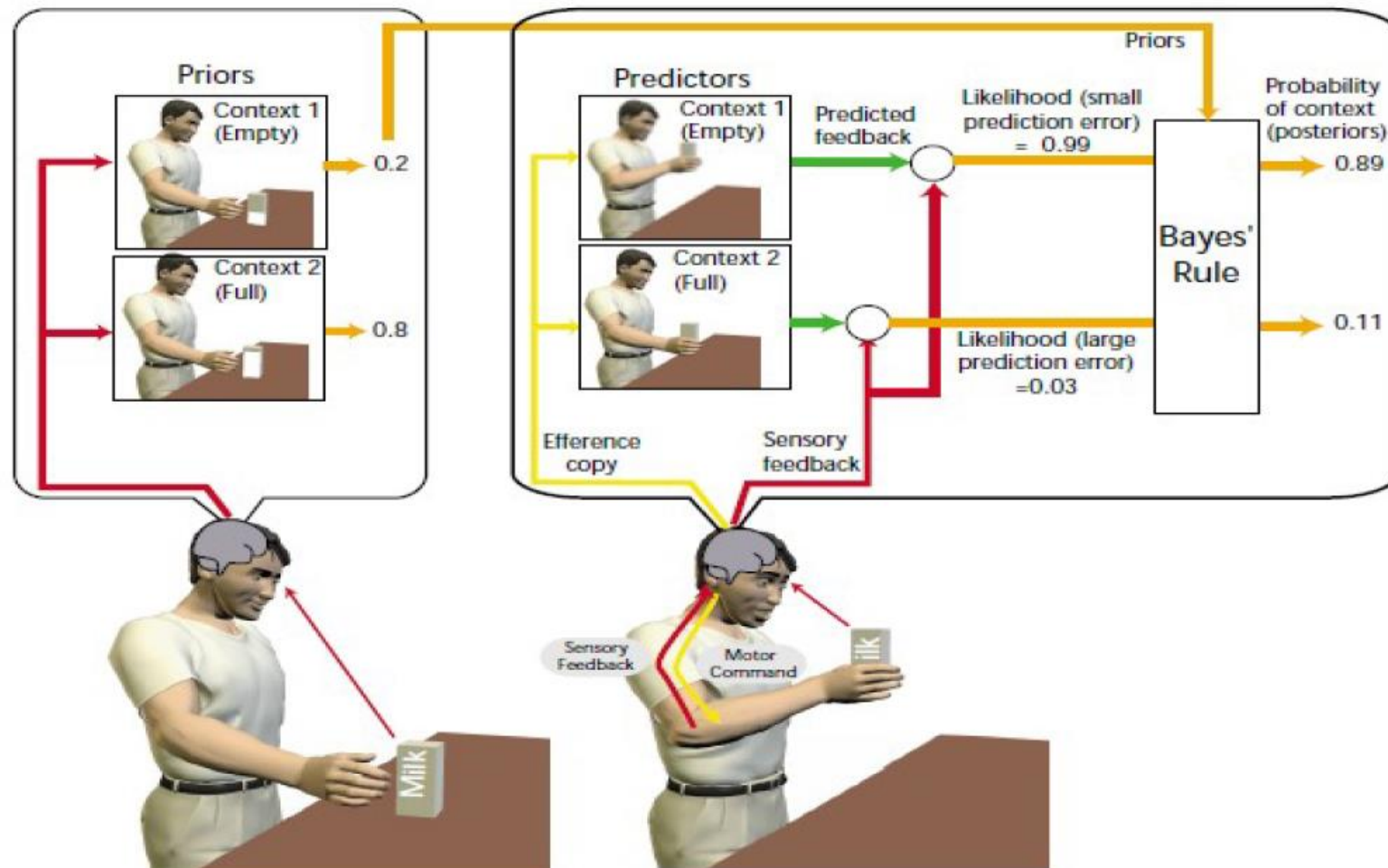
Modelos internos o
Representaciones
internas

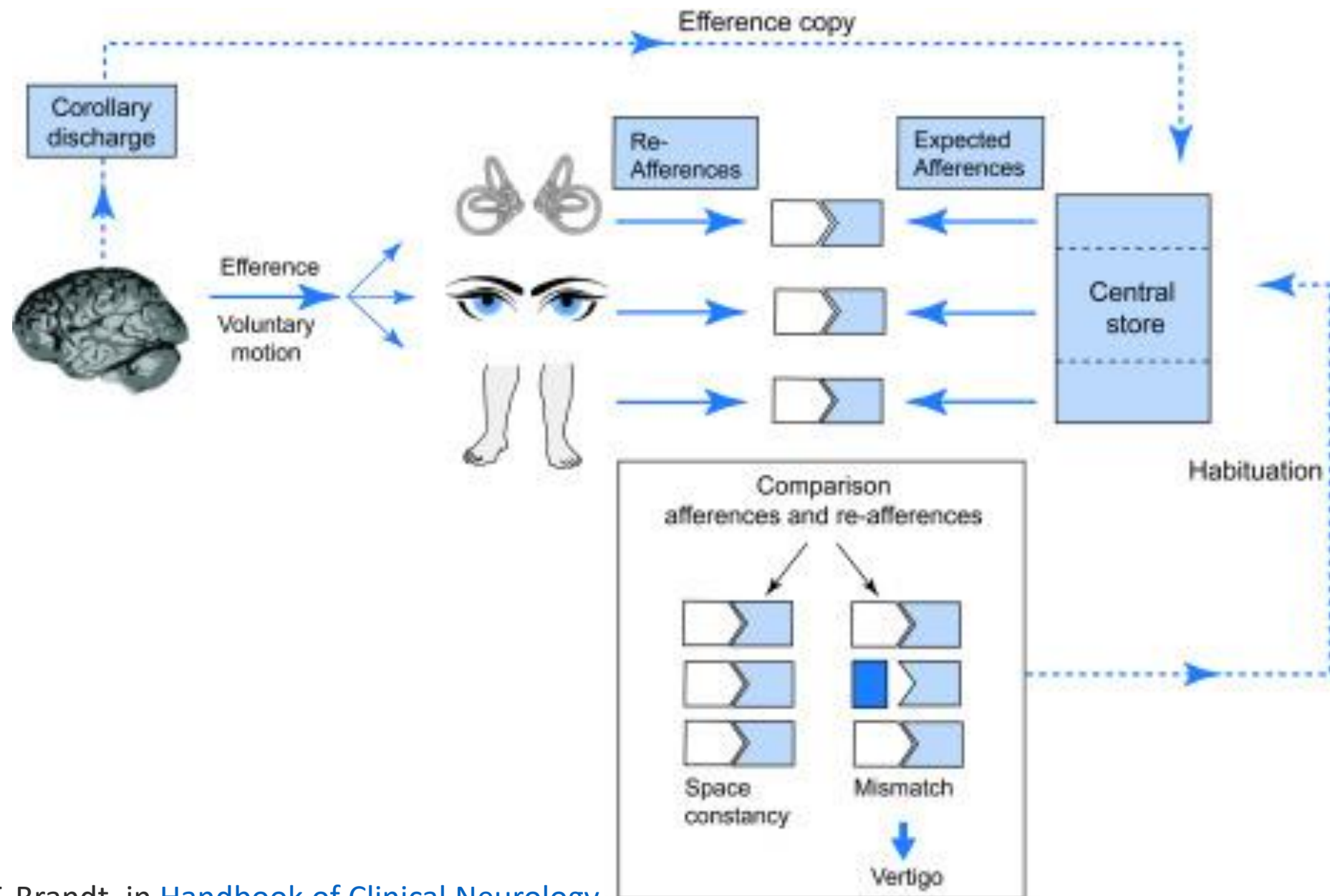


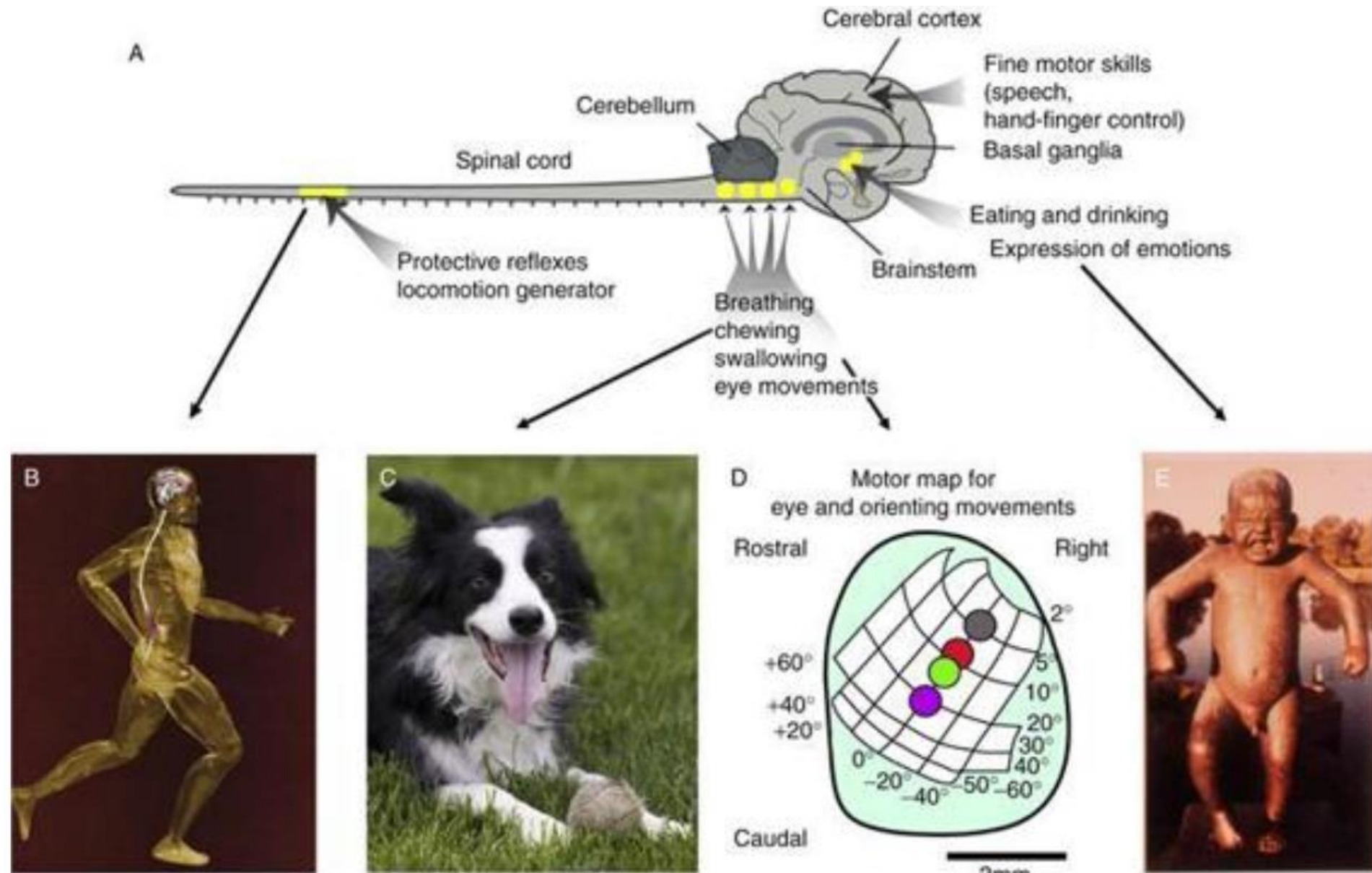
Información sensorial







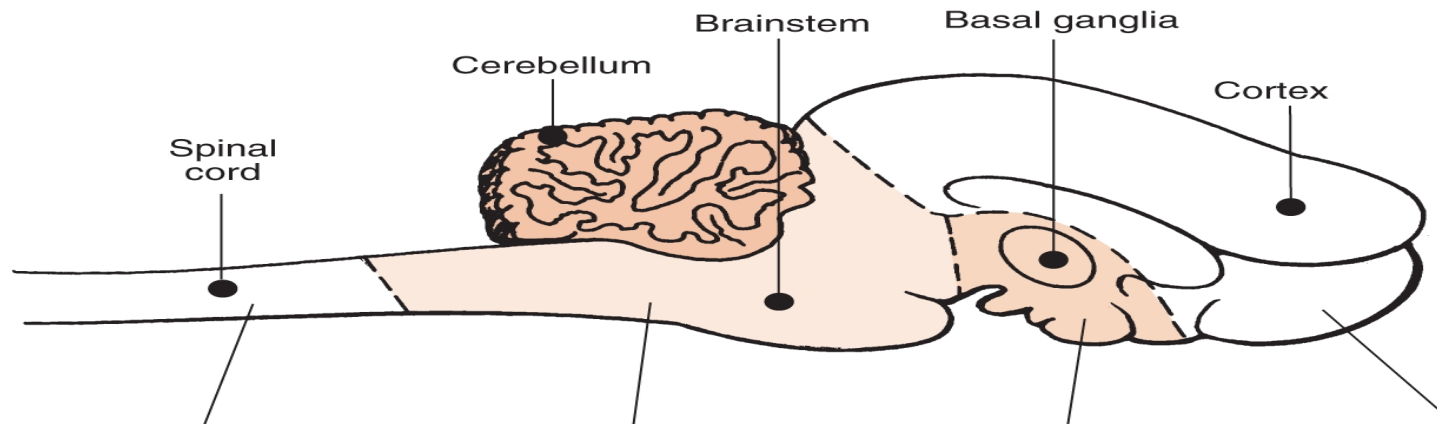




Redes distribuidas



Redes distribuidas

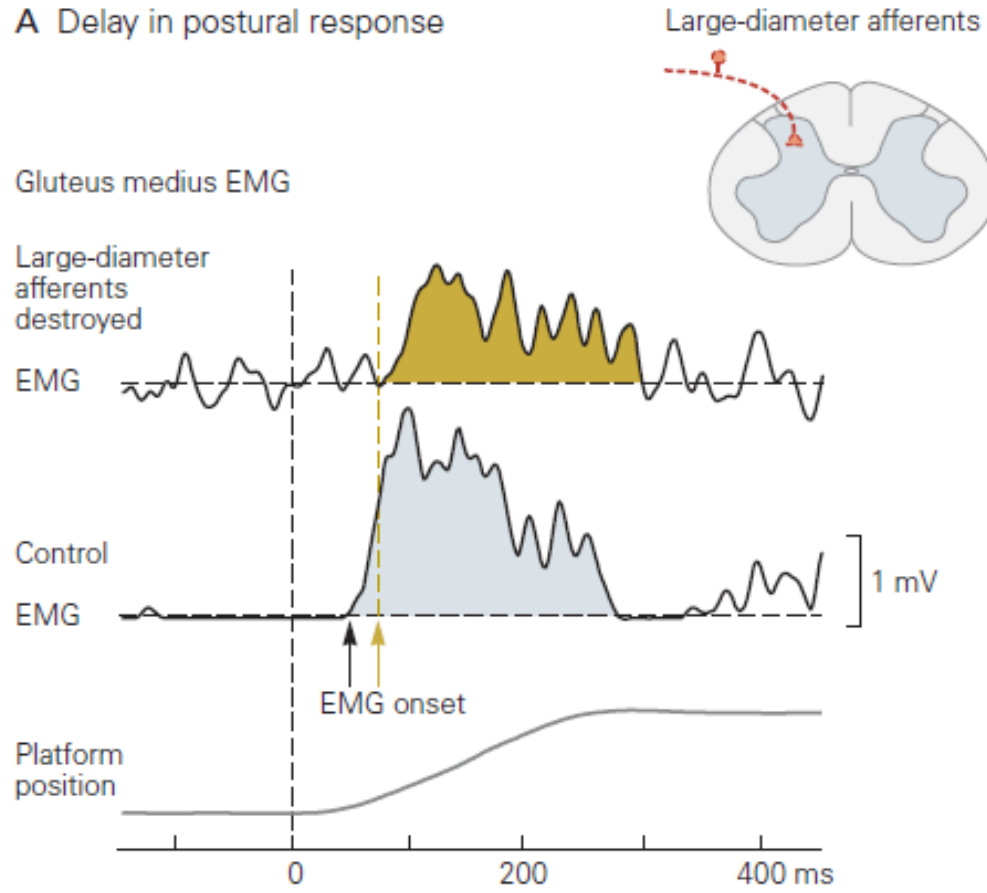


Spinal preparation	Brainstem level	Basal ganglia/cerebellum	Intact system
<p>Ground reaction forces for orientation present though diminished</p> <p>Tonically active extensor muscle for antigravity support for postural orientation</p> <p>No lateral stability</p> <p>Somatosensory contributions to postural control</p>	<p>Controls level of postural tone in combination with cerebellum</p> <p>Circuits for automatic postural synergies (hypothesized)</p> <p>Vestibular contributions to postural control</p>	<p><i>Cerebellum</i> Control of adaptation — abilities to modify postural muscle amplitude in response to changing task and environmental conditions</p> <p><i>Basal ganglia</i> Control of postural set—ability to quickly change muscle patterns in response to changing task and environmental conditions</p>	<p>Adaptable postural control system to meet the goals of stability and orientation in any environment</p> <p>Visual contribution to postural control</p>

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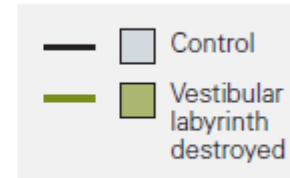
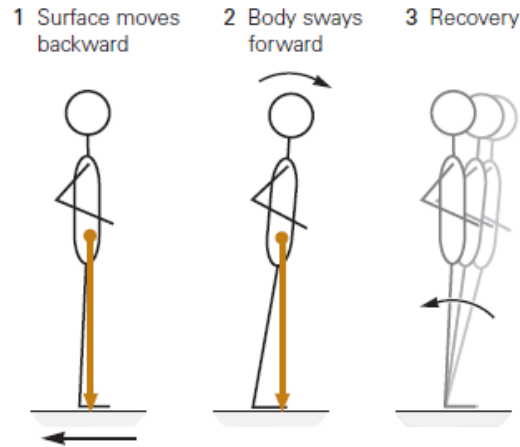


Aporte Espinal

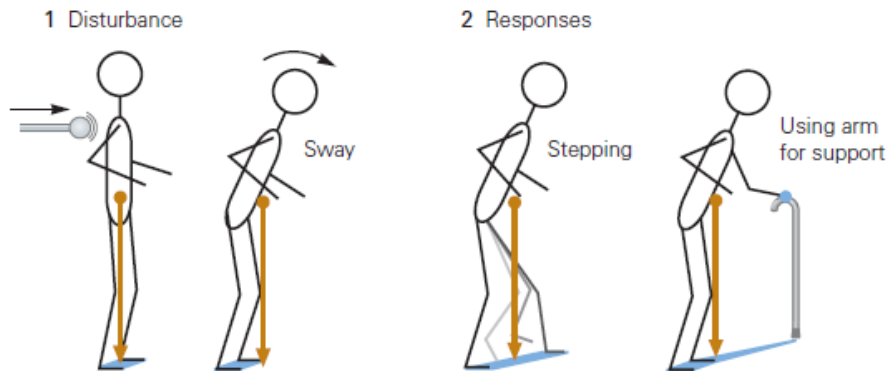


Aporte Tronco Encefálico

A Bringing center of mass back over base of support

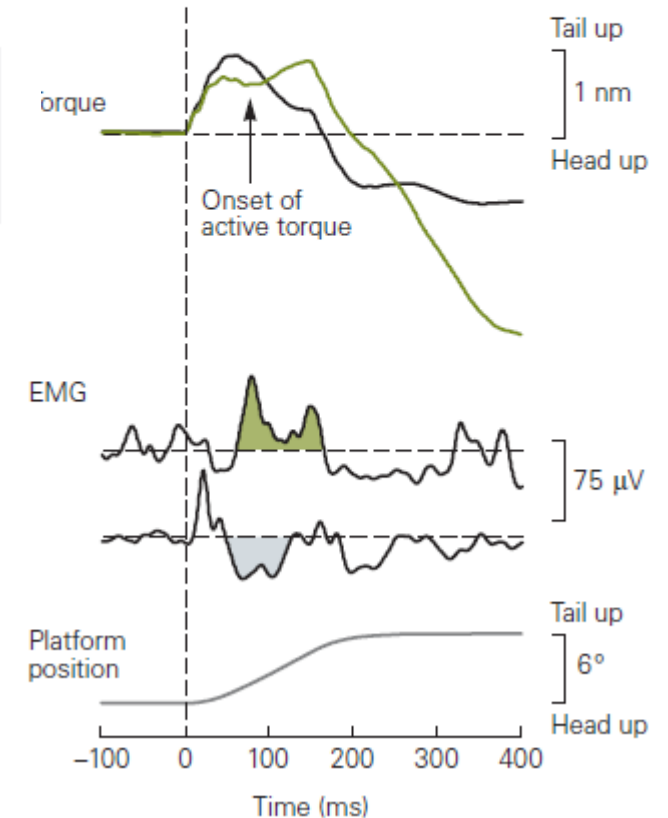


B Extending base of support to capture center of mass

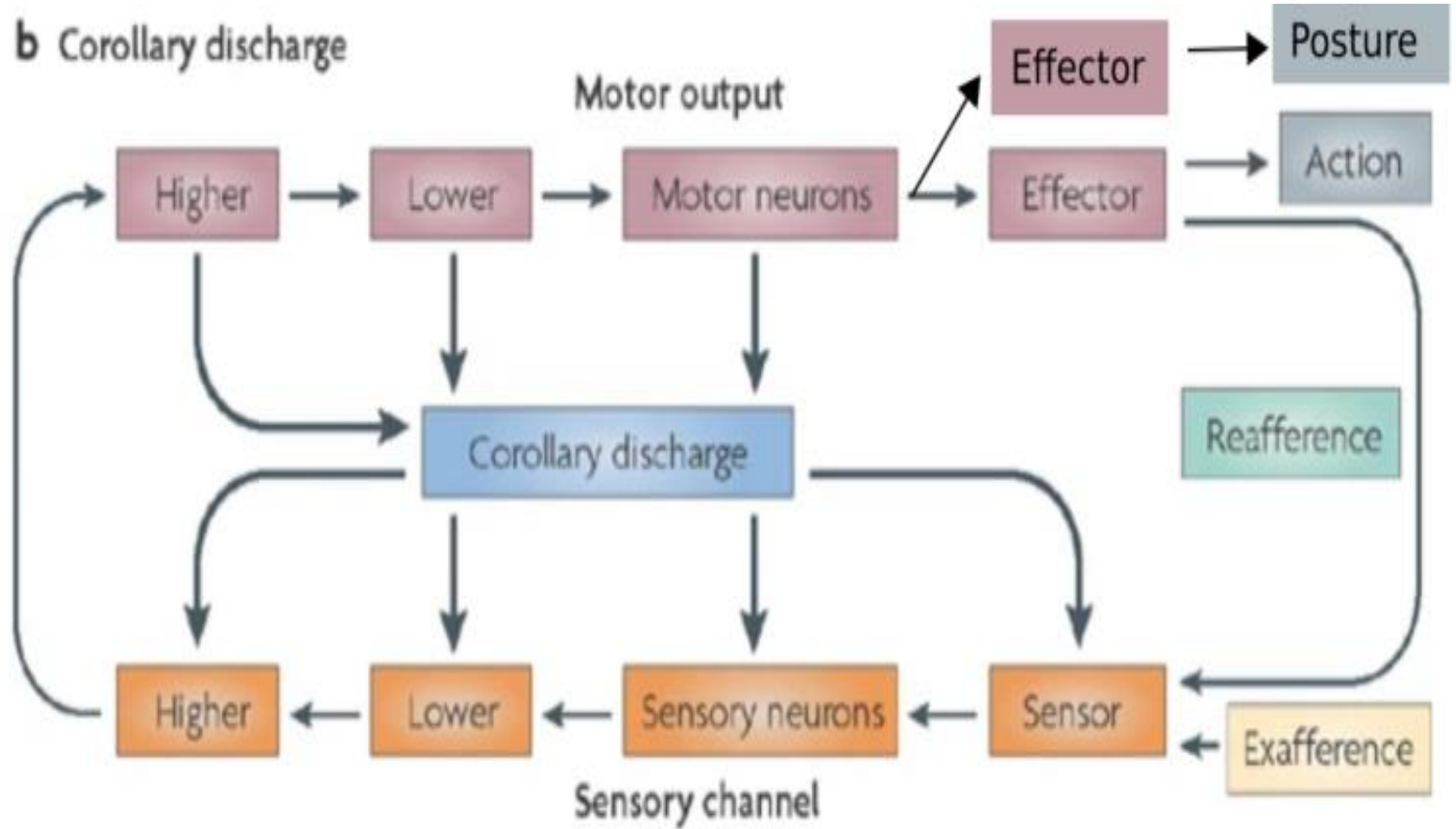


A Tilt

1 Postural response is opposite to control

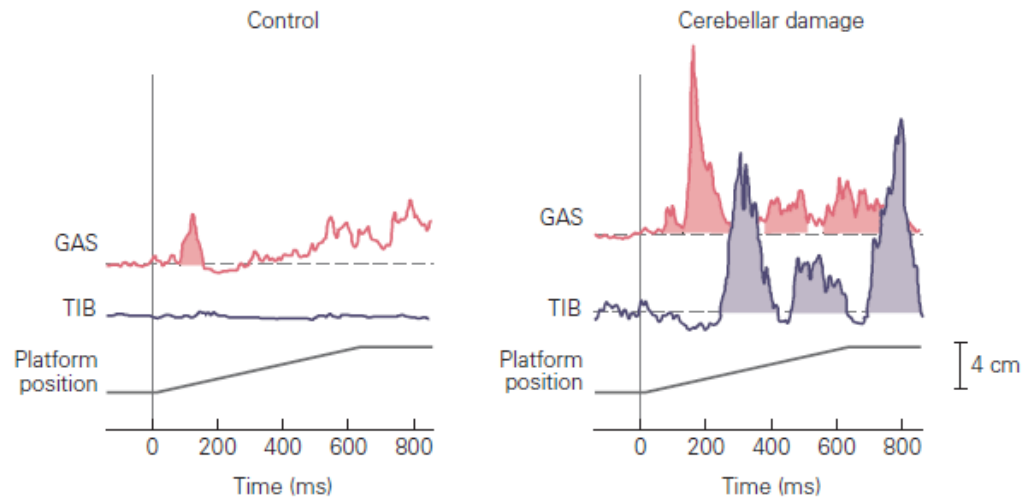


Aporte Cortical

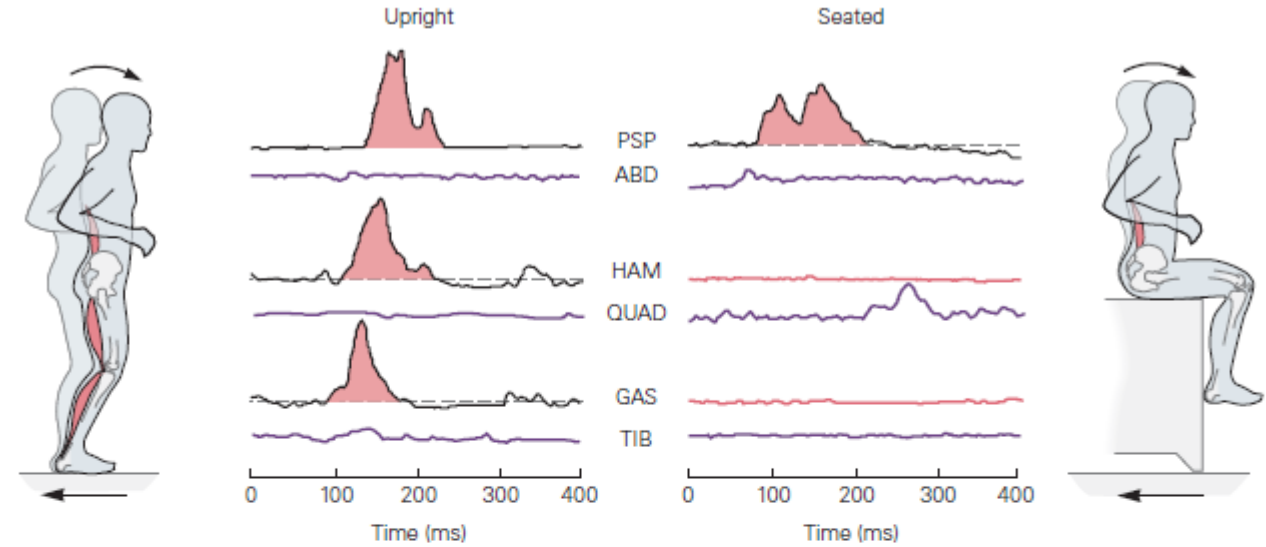


APORTE CEREBELO / N. DE LA BASE

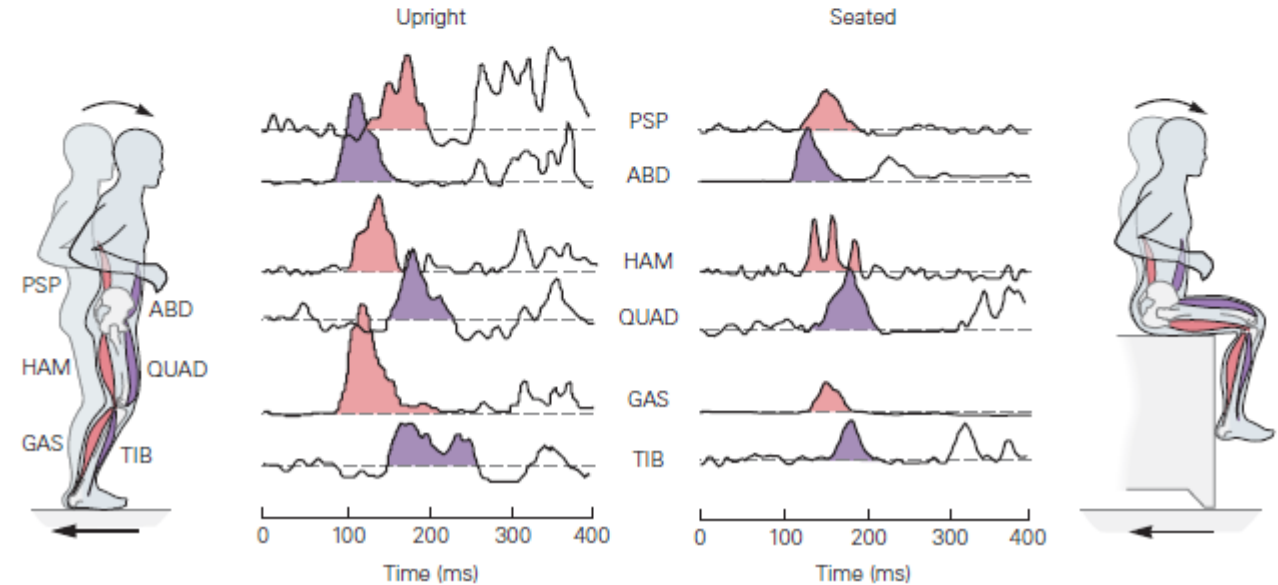
B Postural responses to sudden disturbance



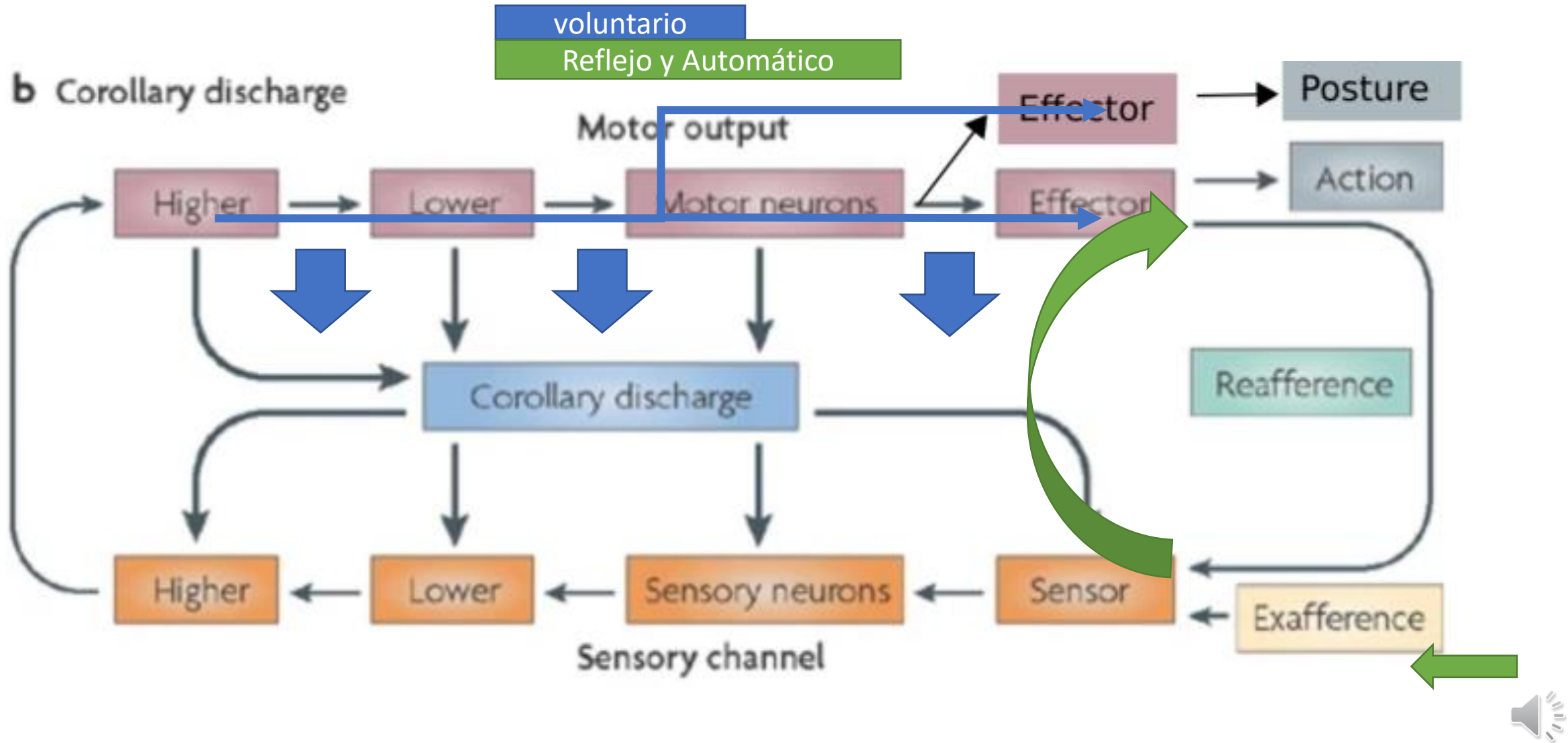
A Control



B Parkinson disease



SINTESIS



GRACIAS

Preguntas por el foro de U-Cursos