

AP PSYCHOLOGY

CHEMICAL & BODILY SENSES

Unit 1: Biological Bases of Behavior



Chemical Senses





Smell OLFACTO^TRY SYSTEM

THALAMUS



PEROMONES

Taste

GUSTATION

SWEET

SALTY

SOUR

BITTER

UMAMI

OLEOGUSTUS



Gustatory System

Brain
Mouth
Tongue



Supertaster

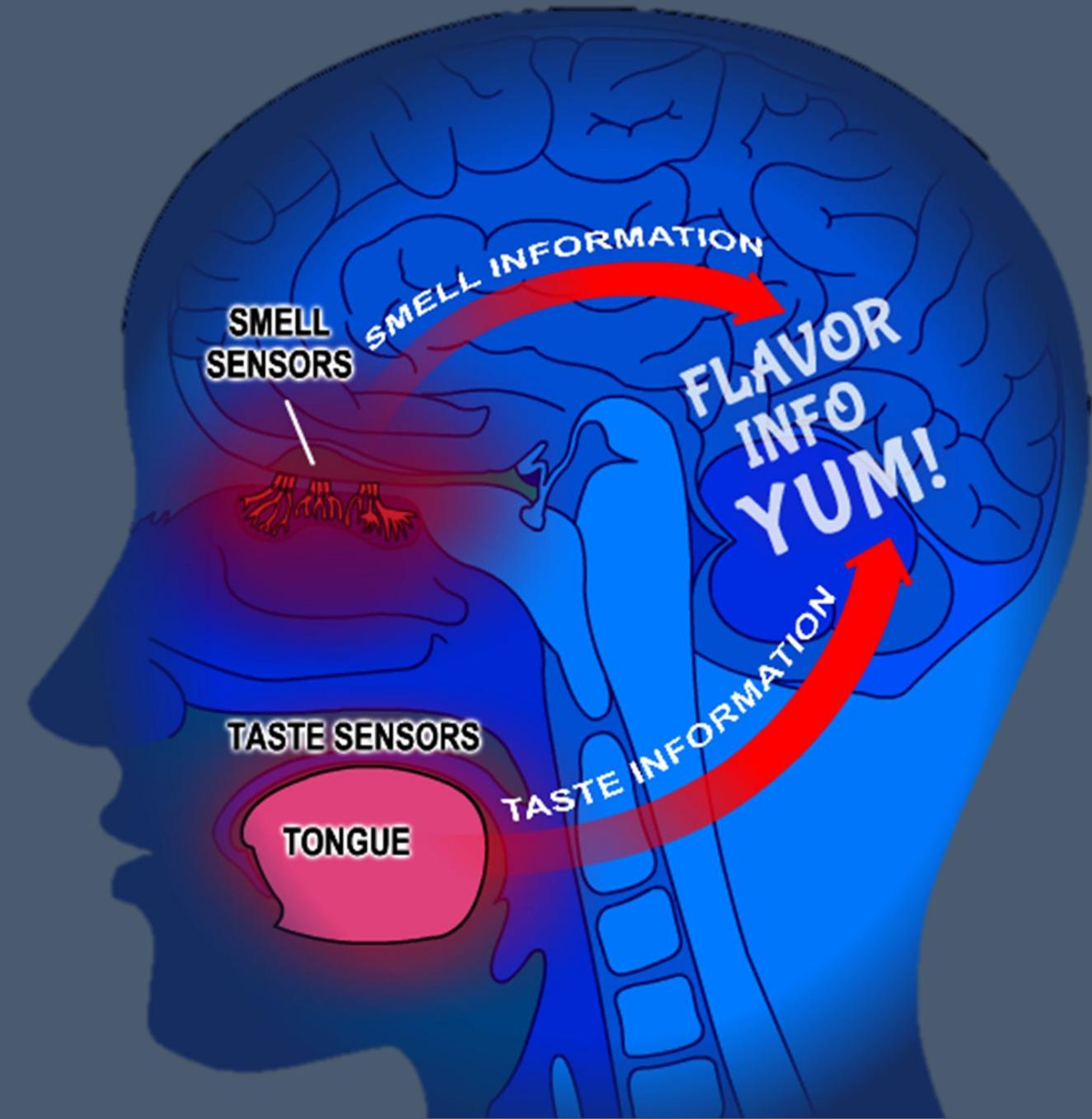


Medium taster



Nontaster

Interaction of the Chemical Senses



Touch





Touch Structures

Warm + cold receptors = HOT

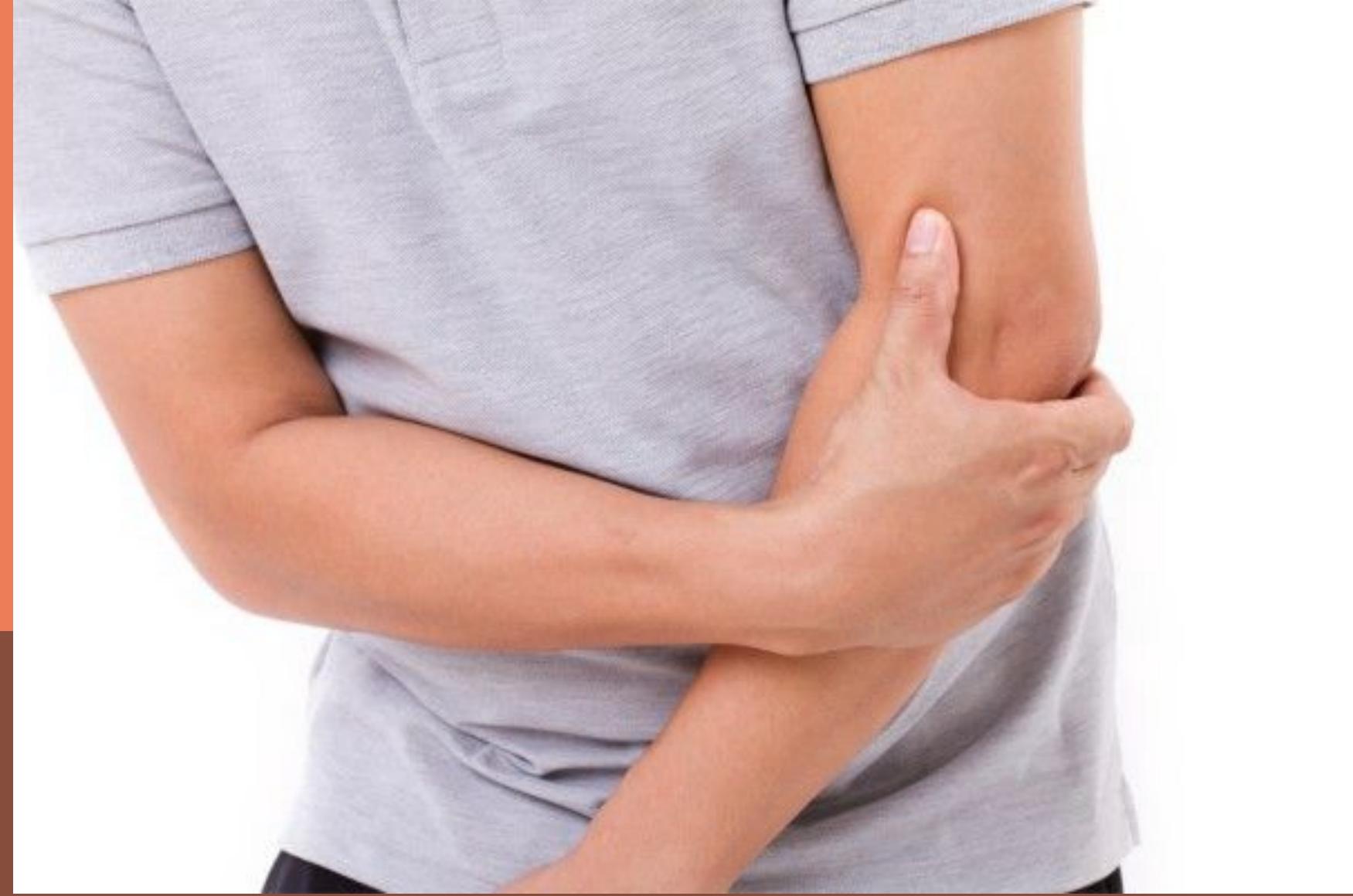
Pain



Phantom Limb



The ability to feel sensations and even pain in a limb or limbs that no longer exist.



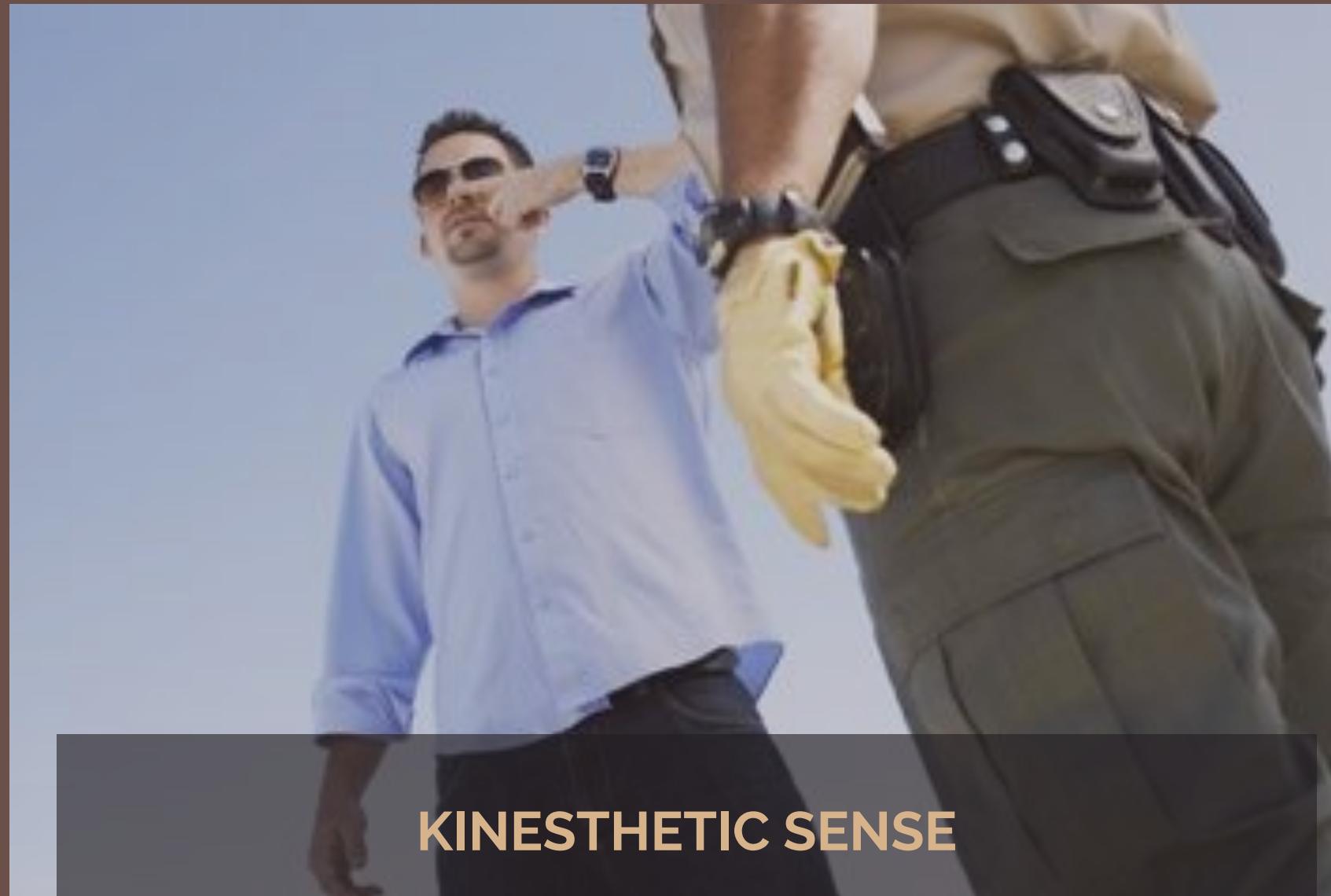
Gate Control Theory

Non-painful sensory input can dampen or
block painful sensations from reaching the
brain

Balance | & Body Movement



The Body Senses



KINESTHETIC SENSE

Enables control and coordination over movements, including walking, talking, facial expressions, gestures, and posture



VESTIBULAR SENSE

Enables the maintenance of balance in part controlled by the **semicircular canals**, which contain receptors that detect motions of the head