

# **PARIETAL LOBE: SENSORY ANATOMY**

[ Anatomical Illustration: Lateral View of Cerebral Cortex ]

## **REGION**

### **PRIMARY FUNCTION**

Postcentral Gyrus

Primary Somatosensory Cortex (S1); processing of touch, pressure, and pain.

Superior Parietal Lobule

Spatial orientation, sensorimotor integration, and visual manipulation.

Inferior Parietal Lobule

Interpretation of sensory input (language, mathematical operations, body image).

Supramarginal Gyrus

Phonological processing and emotional responses to tactile stimuli.

Angular Gyrus

Complex language functions, memory retrieval, and number processing.

## **CLINICAL CORRELATION**

Damage to the parietal lobe can result in Gerstmann's Syndrome, Hemispatial Neglect, or Astereognosis (inability to identify objects by touch).