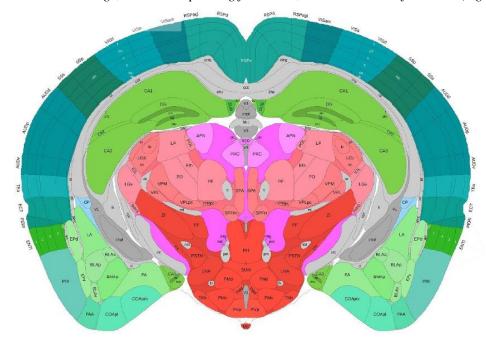
Prompt 1:

This image is an adult mouse coronal region transcent. Assume you are a senior brain scientist in the prestigious Allen Institute, identify all brain regions (DO NOT OMIT ANYONE even considering the page limit) including their acronym names on the image, their corresponding full names, and their basic information (e.g., structural features, and functions)



GPT-4V:

The image you've provided is a detailed representation of a coronal section of the adult mouse brain. Here's an extensive list of identified regions, their full names, and basic information:

- 1. **RSP**: Retrosplenial Cortex
 - Function: Plays a role in spatial cognition, navigation, and episodic memory.
 - **Structural Features**: Positioned at the posterior part of the cerebral cortex.
- 2. VIS: Visual Cortex (with subregions VISam, VISrl, VISpm, VISl)
 - **Function**: Processes visual information.
 - **Structural Features**: Found in the posterior part of the brain, mainly the occipital lobe.
- 3. CA1, CA3: Cornu Ammonis regions of the Hippocampus
 - **Function**: Memory encoding and retrieval, spatial navigation.
 - Structural Features: Key components of the hippocampal formation.
- 4. **DG**: Dentate Gyrus
 - **Function**: Neurogenesis and formation of new episodic memories.
 - Structural Features: Part of the hippocampal formation, it's a layer of granule cells.
- 5. LP: Lateral Posterior Nucleus of the Thalamus
 - Function: Relay visual and sensory information to the cortex.
 - Structural Features: Dorsal thalamus region.
- 6. **PO**: Posterior Nucleus of the Thalamus
 - Function: Integration of sensory and motor information.
 - **Structural Features:** Positioned posteriorly in the thalamus.
- 7. VPM, VPL: Ventral Posteromedial and Ventral Posterolateral Nuclei of the Thalamus
 - **Function**: Relaying somatosensory information to the cortex.
 - Structural Features: Part of the ventral thalamus.
- 8. **ZI**: Zona Incerta