

**THE UNIVERSITY OF CONNECTICUT
Graduate School
Meds 384, Mammalian Neuroanatomy
RAT HISTOLOGICAL SECTIONS**

IDENTIFY THE STRUCTURE IN EACH SECTION

Nissl Section 1

Pyramids
Inferior Olive
Cochlear Nucleus
Vestibular Nuclei
Spinal Trigeminal Nucleus and Tract
Inferior Cerebellar Peduncle
Nucleus ambiguus

Nissl Section 2

Pyramids
Facial Nucleus
Deep Cerebellar Nuclei
Cochlear Nucleus
Vestibular Nuclei
Spinal Trigeminal Nucleus and Tract
Inferior Cerebellar Peduncle
Cerebellar layers - granular, molecular, and
Purkinje

Nissl Section 3

Lateral Vestibular Nucleus
Pyramids
Facial Nucleus
Deep Cerebellar Nuclei
Cochlear Nucleus
Vestibular Nuclei
Spinal Trigeminal Nucleus and Tract
Inferior Cerebellar Peduncle
Cerebellar layers - granular, molecular, and
Purkinje
4th ventricle

Nissl Section 4

Facial Nerve
Superior Olivary Complex
Motor Trigeminal Nucleus
Mesencephalic Trigeminal Nucleus
Principle Trigeminal Nucleus and Tract
Cochlear Nucleus
Central Gray

Nissl Section 5

Lateral lemniscus
Central gray
Inferior colliculus
Central gray
Medial longitudinal fasciculus
Raphe nuclei
Reticular formation
Middle Cerebellar Peduncle

Nissl Section 6 & 7

Superior colliculus
Central gray
Aqueduct
Pontine nucleus
Medial longitudinal fasciculus
Raphe nuclei
Reticular formation
Brachium Conjunctivum

Nissl Section 8

Cerebral Peduncle
Substantia Nigra
Red Nucleus
Thalamic nuclei (which ones?)
Central gray
Aqueduct
Pretectum

Nissl Section 9 & 10

Dorsal Thalamic nuclei (which ones?)
Hypothalamus
Third ventricle
Cerebral Peduncle or Internal Capsule
Neocortex – Find each layer
Entorhinal cortex – Find each layer
Hippocampus