

Human Brain Slice Preparation

IAP 9.97, 2003

In this section, you will be asked to identify a number of brain structures on human brain slices. We HIGHLY RECOMMEND that you prepare yourself by looking at the web site below (there are additional materials on reserve in Schering-Plough that would also be of use). Students who do not adequately prepare for this section usually find it much less useful, so please take the time to familiarize yourself with the human brain BEFORE coming to your section! You will be given a short quiz at the beginning of the section (to reward those who have done their homework).

<http://www.vh.org/Providers/Textbooks/BrainAnatomy/BrainAnatomy.html> –

(VIRTUAL HOSPITAL, DISSECTIONS OF A REAL BRAIN) – Chapter 5 is most relevant to what you will be looking at during your “human brain slices” section.

This web site walks you through what an actual human brain looks like.

Brain structures to be familiar with (these are terms that will arise frequently in your courses!):

The four lobes

Amygdala

Anterior commissure

Caudate nucleus

Cingulate gyrus

Colliculi (inferior & superior)

Corona radiata

Corpus callosum

Fornix

Hippocampus

Hypothalamus

Insular cortex

Mamillary body

Olfactory tract and bulb

Optic nerve and chiasm

Parahippocampal gyrus

Pineal body

Pons

Posterior commissure

Substantia nigra

Thalamus