

Biochemistry

Oral exam: Any basic biochemistry textbook, most use Lehninger 'Principles of Biochemistry'. More information can be found in Appendix B-The oral exam in Biochemistry.

'TIBS' review exam: Chose 5 -6 reviews from the latest year of TIBS or similar Review collection. These should have a good 'spread' for scope and should not be directly on your own project topic. Send your chosen reviews to the subject responsible ahead of time.

Biophysics

Oral exam: Principles of Physical Biochemistry (van Holde, Johnson, Ho) and lecture handouts on circular dichroism and vibrational spectroscopy

Neurochemistry

Oral exam: To study in advance, "Basic Neurochemistry" by Brady, Siegel, Albers and Price is recommended, as well as handouts from the Neurochemistry MSc program. A list of current specific subjects (such as Organization of the nervous system, Neurotransmitter release, Glutamate receptors, Second messengers) is provided, questions can come on any of these. The subject list will be posted under Appendix C-The oral exam in Neurochemistry.

'Current topics in Neurochemistry' Review exam:

Four papers (all published in the last three years) in total; the student chooses one original paper and one review article and the examining teachers select the same. For reviews, the following journals can be used: *TINS*, *TIPS* (neurochemistry-related articles), *Nature Reviews Neuroscience*, *Nature Neuroscience* (review articles), *Current Opinion in Neurobiology*, *Neuron* (review articles). For original papers, the following journals can be used: *Nature*, *Science*, *Cell*, *Nature Neuroscience*, *Nature Medicine*, *Neuron*, *Cell Reports*, *eLife*, *PNAS*, *PLoS Biology*, *Current Biology*, *Journal of Neuroscience*, *European Journal of Neuroscience*, *Neuroscience*, *Journal of Neurochemistry*, *Molecular Neurodegeneration*.

Bioinformatics

Oral exam: Knowledge about classical and current methods in bioinformatics. Recommended reading material is a set of papers and webpages located here:

https://docs.google.com/document/d/1sBTMSuuwITfsUX9S1_mcsXtIKbLBpP6PKNu8-5YWnB0/

The list is updated yearly.