

The test in Biology for the Aristotle University Medical School entry exam, is based on the syllabus of IB (International Baccalaureate) Biology (High level). It covers the following topics:

Cell Biology (Cell theory, Ultrastructure of cells, Prokaryotic-eukaryotic cells, Membrane structure, Membrane transport, The origin of cells, Cell division, Mitosis, Cell cycle-cancer)

Molecular Biology (Proteins , Carbohydrates and lipids, Enzymes, Structure of DNA and RNA, Ribosome and transfer RNA, DNA replication, genetic code, transcription, gene expression, translation)

Genetics (Genes, mutations, Chromosomes, Karyotype, Meiosis, Principles of inheritance, DNA technology, genetic modification and biotechnology)

Genetics and evolution-biodiversity

Metabolism, cell respiration and photosynthesis

Human Physiology (Digestion and Absorption, Blood system, Defence against infectious diseases, Gas exchange, Neurones and synapses, Hormones, Homeostasis and Reproduction)

IB Biology Course Book (2014 edition) Andrew Allot, David Mindorff OXFORD