

The test in Biology for the Aristotle University Medical School entry exam, is based on the syllabus of IB (International Baccalaureate) Biology (Standard 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**