LIST OF PRACTICAL SKILLS IN MEDICAL BIOLOGY

- microscopy technique;

- make temporary micropreparations;

- to differentiate cell components;

- make a karyogram of human chromosomes;

- to identify the primary structure, number of amino acids, molecular

the mass of the polypeptide according to the structure of the gene encoding

it;

- to analyze the sequence of stages of gene expression regulation;

- determine the type of inheritance of Mendelian traits of a person;

- to predict the genotypes and phenotypes of the offspring based on the genotypes of the parents;

- exclude paternity when determining the blood groups of the parents and the child;

- to analyze the complex mechanisms of inheritance of traits in humans;

- to develop measures to reduce the degree of manifestation of the pathological condition in

patients with hereditary pathology;

- choose appropriate methods of studying human heredity for diagnosis various hereditary diseases;

- calculate the probability of the manifestation of hereditary diseases in descendants depending on

gene penetrance;

- to differentiate human chromosomal diseases;

- to build and conduct a genealogical analysis of pedigrees with hereditary illness;

- calculate the role of heredity and environmental conditions in the development of traits (for

results of twin analysis);

- calculate the genetic composition of human populations;

- apply the biogenetic law to define ontophylogenetically

conditioned inborn

human developmental defects;

- to compare the mechanisms of birth defects of human development of various genesis;

- learn the basic principles of regeneration and transplantation;

- determine the place of the biological object in the living nature system;

- justify the belonging of human parasitic diseases to a group transmission and natural sources;

- to diagnose pathogens and vectors on macro- and micro-preparations causative agents of parasitic diseases;

- determine the species affiliation of protozoan pathogens;

- to identify different stages of the life cycle of human parasites;

- substantiate methods of laboratory diagnosis of parasitic diseases;

- determine the species belonging to helminths and their eggs;

- to differentiate the diagnosis of invasions using laboratory methods;

- to determine the species belonging to carriers of infectious agents;

- prove the effectiveness of methods of prevention of parasitic diseases, based on the methods of infection with them;

- predict the impact of environmental factors on the human body.