

**Schedule of the labs  
(1<sup>st</sup> semester)**

|    | Topics  | hours |
|----|---|-------|
| 1  | The Science of Biology. Cell is a unit of life..  | 2     |
| 2  | Cell biology  | 2     |
| 3  | Information system of the cell.   | 2     |
| 4  | Organization and regulation of gene expression of prokaryotes and eukaryotes  | 2     |
| 5  | Gene engineering and biotechnology in medicine  | 2     |
| 6  | The cell biology and physiology.  | 2     |
| 7  | Reproduction, features of human reproduction  | 2     |
| 8  | Ontogenesis. The characteristics of embryological development   | 2     |
| 9  | Regeneration and transplantation of organs and tissues  | 2     |
| 10 | General genetics. Gene interactions. Multiple alleles   | 2     |
| 11 | Linkage genes. Sex-linked characteristics. Sex determination  | 2     |
| 12 | Genotypic variation. Mutations  | 2     |
| 13 | Human genetics: pedigree, twins study, population study   | 2     |
| 14 | Human genetics: cytogenetic, immunological, biochemical, and molecular-genetic study. Prenatal diagnostics of hereditary diseases | 2     |
| 15 | Hereditary diseases   | 2     |
| 16 | Control session on "Molecular Biology"  | 2     |
| 17 | Genetical structure of populations, characteristic of human population  | 2     |
| 18 | Exam: concluding session of the 1 <sup>st</sup> semester  | 2     |

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