

Biology Paper Writing Service

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1. Bioorganic chemistry and chemistry of natural compounds
 - 1.1. Obtaining, structural analysis and study of the properties of biologically active compounds in the search for new drugs
 - 1.2. Obtaining, isolation from natural sources, establishing the structure of steroids and other isoprenoids
 - 1.3. Obtaining and studying the chemical properties of analogues of natural derivatives of pteridine.
2. Biochemistry of life and pathological conditions
 - 2.1. Status and regulation of thiol-disulfide metabolism in experimental thyroid pathology in the age aspect
 - 2.2. Phenotypic and genotypic heterogeneity of tumor tissues
 - 2.3. Redox status of an organism under stress and endocrine pathology
 - 2.4. The study of in silico (molecular docking) of biologically active substances and their role in the course of biochemical processes
 - 2.5. Biochemical processes underlying the metabolism of thyroid hormones
 - 2.6. Bioorganic approaches to the development of laboratory diagnostic methods
3. [Organic chemistry](#)
 - 3.1. Synthesis and structural studies of organic substances (carbonyl compounds, derivatives of piperidine, pteridine, etc.) in the search for pharmacologically active substances
 - 3.2. The study of the mechanism and stereochemistry of chemical reactions (carbonyl addition, oxidation, etc.).
 - 3.3. The chemical basis for the production of fossil fuels in the presence of a catalyst
4. Physico-chemical fundamentals of the flow of chemical and biochemical processes, improving methods for the isolation and purification of substances
 - 4.1. Adaptation of PCR methods for biomedical and clinical research
 - 4.2. Methods for the study of biological processes (HPLC, electrophoresis, spectrophotometry, molecular docking, etc.)
5. Pharmaceutical and toxicological chemistry
 - 5.1. Molecular docking in the search for new medicinal substances
 - 5.2. Chemical toxicological analysis of drugs and other xenobiotics
6. Methodology of science, didactics of chemistry

6.1. Visualization and modeling, aesthetics and psychology of chemical knowledge of chemical objects and processes

6.2. Methodology and didactics of the selection of the content of organic and bioorganic chemistry courses

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