

## Editorial on Introduction to Bioorganic Chemistry

Sirisha Gawaji\*

Department of Food science and Nutrition, Andhra University, Andhra Pradesh, India

### INTRODUCTION

Bioorganic chemistry is a branch of chemistry which integrates organic chemistry and biochemistry. It involves the study of biological processes using chemical methods. Organic chemistry methods are used to synthesize biological molecules and to examine their structure, to investigate biochemical reactions.

For example, the classical chemistry of natural products with its characteristic set of isolation, structural proof and total synthesis is an evident, but purely organic ancestor. Similarly, the research of the biosynthetic pathways for the same natural products is plain biochemistry. But when the total synthesis of a natural product formulated is based on the known route of biosynthesis or if the biosynthesis has been translated into structural and mechanistic organic chemical language, it is related to bioorganic chemistry.

Organic chemistry deals with: - Structure Design, synthesis, and kinetics (Physical organics).

1. **Structure design:** It explains the potential the interaction between structures and the biological partners.
2. **Synthesis:** It provides compounds which might be similar

to natural species and may not have created in sufficient quantity for investigation by nature.

3. **Kinetics:** Analytical methodology and Physical organic chemistry provide quantitative measures and accurate details of reaction pathways.

It is impossible to know the essence of biological processes without the knowledge of structure and properties of biopolymers and bioregulators

Bioorganic chemistry deals with the study of life processes by using biochemical methodology. It has a strong influence on the development of all branches of the medical and biological profile and is connected with the solution of important issues of practical public health.

Therefore, bioorganic chemistry plays a vital role in explaining such important issues as the mechanism of action of enzymes, drugs, the molecular mechanism of immunity, the processes of vision, respiration, memory, and the verified problem of molecular conductivity etc. A lot of work is done to decipher the mechanism of functioning of nerve fibre membranes, which is very important for the development of new ways of treating diseases of the nervous system.

**Correspondence to:** Sirisha Gawaji, Department of Food Science and Nutrition, Andhra University, India. E-mail: sirisha.gawaji@gmail.com

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