

Editorial

Biological Science is one of the most emerging fields in the present scenario. During the last few decades, rapid and significant progress in biological sciences has been made by introducing the idea that biological processes are the result of the behavior of genes and molecules. Biological sciences form the basis of many new areas of science and technology. They are the foundation of our understanding of a diverse range of subjects – from evolution, genetics and diversity to medicine, drug and human development. Because of this progress, biology has become increasingly important both as a pure science and as a source of ideas for the medical, agricultural, pharmaceutical, and engineering sciences. Modern biological studies are very important in order to deal with the problems of the 21st century-increasing population, human survival, sustainable biological growth and development, the advancement and ethics of life sciences, etc.-

Biological sciences is having an impact in all sorts of areas of global significance, such as

- Human health
- Unravelling the human genome
- Novel pharmaceutical products derived from plants and animals
- The problems of conserving very rare species (biodiversity)
- Finding out who is related to who in the natural world (with spin-offs to forensic science),
- Managing ecosystem services - which supply us with fresh water, clean air, and fertile soil.

The desire to find solutions to contemporary challenges is at the heart of our research ethos. Working at the forefront of their fields, scientists are committed to high quality research that makes a real impact. It is a great pleasure to introduce this special issue on recent advancements in biological sciences. Our goal is to advance knowledge of biological sciences that involve scientific studies of living organisms and to apply research discoveries in ways that improve the quality of human life. We endeavor to fulfill our goal by publishing best quality research in this field.

The main criteria for acceptance are that a study is novel, and has general significance to biologists. Articles published cover a wide range of areas within the biological sciences, many

have relevance to organisms and the environments in which they live. Many more good manuscripts are submitted than we have space to print, and we give preference to those presenting significant advances of broad interest. Submission of preliminary reports, of articles that merely confirm previous findings, and of articles that are likely to interest only small groups of specialists, is not encouraged. All articles are sent to an Editorial Board member for an initial assessment, and may be returned to authors without in-depth peer review if the paper is unlikely to be accepted because it is either too specialized, not sufficiently novel, or is deficient in other respects.

Current areas of research in our track include as follows

- Ecology and conservation
- Applied ecology and resource management
- Flora and fauna ONLY.
- Behavioural ecology
- Biodiversity
- Biology and genetics of micro-organisms
- DNA technology
- Ecology and conservation
- Genes and gene expression
- Human genetics
- Marine biology
- Metabolic biochemistry
- Plant biology
- Theory and practice in ecological methods

The first few articles of the issue pertain to fundamentals followed by its applications to biological sciences. The scope includes, but is not limited to ecology, evolution, behavior, health and disease epidemiology, neuroscience and cognition, behavioral genetics, development, biomechanics, paleontology, comparative biology, molecular ecology and evolution, and global change biology. The eminent authors are from universities, national laboratories, academic institutions and industries, their wide experience in their respective fields should be useful to wide and diversified readership. It is hoped that this issue will fill up the gap between the theory and its useful applications for solving complex biological processes.

At the end, I would like to thank Brazilian Archives of Biology and Technology who give me opportunity to publish this special issue. I also congratulate Alana Marielle R G Kluczkovski Editor-in-Chief, for all his help and cooperation for editing and publication of this issue. We hope you will find the presented thoughts and results inspiring when you read this issue.

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