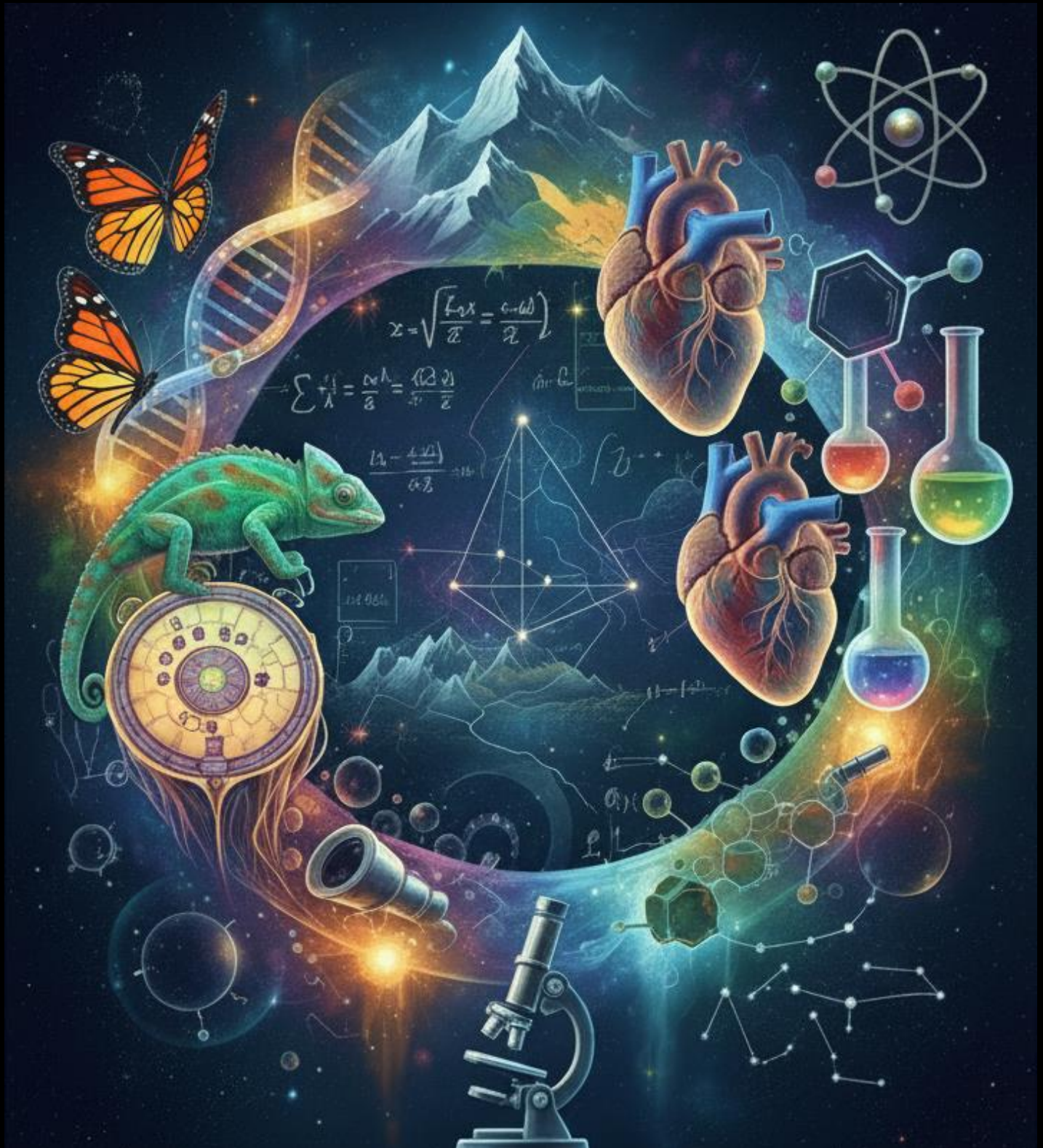


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From the Desk of the Editor-in-Chief

It gives me immense pleasure to present the latest volume (Volume 13, June 2025) of the B. N. Seal Journal of Science (ISSN: 0975-562). This issue continues our commitment to advancing interdisciplinary scientific research by bringing together contributions from diverse fields including Botany, Zoology, Physics, Chemistry, Geography, Mathematics, and allied sciences.

The articles featured in this volume reflect a blend of empirical research, innovative methodologies, and thought-provoking perspectives that address both regional and global scientific challenges. Each paper has undergone a rigorous peer-review process to ensure academic integrity and the highest standards of publication quality, and I am privileged to serve as the Editor-in-Chief of this esteemed publication.

I am particularly delighted to announce a significant and forward-looking evolution: effective from the year 2025, the B. N. Seal Journal of Science has transitioned entirely to an online platform (<https://bnsealjournal.ac.in/>). This pivotal move reflects our commitment to open science and making knowledge universally accessible. In line with this, we are proud to declare that all articles, spanning the current volume and all previous volumes, are now freely available to all readers worldwide.

To further strengthen our position in the academic community, the journal has already been indexed in several global databases, thereby enhancing the visibility and accessibility of its published research. Additionally, the process of inclusion in other reputed databases is actively underway, in alignment with the stringent guidelines of the University Grants Commission (UGC) for recognized scholarly publications.

I extend my heartfelt gratitude to all authors, reviewers, and members of the editorial and advisory boards for their invaluable contributions and unwavering support. I also thank our readers for their continued interest and engagement, which inspire us to uphold excellence in every volume we publish.

We hope this volume stimulates further scientific dialogue and fosters new ideas in the pursuit of knowledge.

Dr. Aninda Mandal
Editor-in-Chief, B. N. Seal Journal of Science
Assistant Professor in Botany, Acharya Brojendra Nath Seal College, Cooch Behar

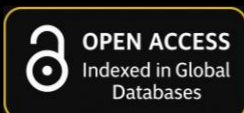
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About the Journal

B. N. Seal Journal of Science (ISSN: 0975-5624) is a prominent peer-reviewed, open access and indexed journal publishing full-length research papers and invited review articles across various disciplines of science, including but not limited to Pure and Applied Mathematics, Physics, Chemistry, Biological Science, Agricultural Sciences, Horticultural Sciences, Animal Sciences, Fishery Sciences, Healthcare Sciences, Anthropology, and Geosciences. B. N. Seal Journal of Science is published by the Office of the Principal, Acharya Brojendra Nath Seal College, Cooch Behar, West Bengal, India. It supports the open access policy for making scientific research accessible to one and all.

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