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Current Perspectives on Analytical Phylogenetics and Evolutionary Biology

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Editorial

Owing to a great deal of experimental research worldwide, the sub-cellular databases at molecular and genetic level have expounded resulting in greater availability of multidimensional information. This has posed a prodigious challenge for the evolutionary biologists to decode the information in a meaningful and logical manner for various applications. Concomitantly, the advancements in computational techniques and development of improvised algorithms enabled the biologists to decipher the intricacies of the cellular and molecular evolutionary patterns, species adaptation and their diversification from the data at their disposal. Consequently, the statistical data analysis has gained wide popularity among evolutionary biologists for deriving reliable interpretations based on the phylogenetic analyses and the exchange of ideas on the methodological development has gained greater importance.

Open access publication model for dissemination of scholarly knowledge has facilitated and supported collaborative efforts thus reducing the redundancy in research objectives and funding. Journal of Phylogenetics and Evolutionary Biology is one of the most prominent open access Journal among experimental phylogenetics Journals and endeavors to publish peer-reviewed scholarly articles on advancements in several topics of evolutionary biology including developmental genetics, developmental biology, epigenetic and inheritable modifications among biological organisms, evolutionary genetics systems biology, adaptive radiation, population genomics and diversification analytics in phylogenetics. The Journal lays special emphasis on bioinformatics and computational phylogenetics as well as molecular phylogeny.

Established in the year 2013, the Journal and has been consistently publishing peer-reviewed articles at a quarterly frequency. Recent publications of the Journal include a review article on gene and species tree congruence as well as another review article on usage of specific codon in phylogenomic model construction and all the issues were released with scheduled publication timeliness. Previous volumes have covered the topics that included organ donation, transplantation and phylogenetic trees. Over the past two years the publications of the journal covered the most important topics such as haplogroup genetics, organ transplantations, gene data based phylogenetic trees, structural biology and genetic codes. The Journal focuses on communicating latest articles on methodological advancements, statistical literature in a comprehensible and lucid manner.

From a popular indexing service it was noticed that a total of 2 lakh articles were published between 2016 and 2019 on topic of and topics associated with evolution in approximately 800 peer-reviewed scholarly Journals. Highly cited articles with a rate of more than 90% cites were the Journals publishing articles on ecology, entomology, fungal diversity, molecular phylogeny, systems biology, conservation biology, gene regulation and wildlife. The citations were made from articles reporting findings on modeling and simulation, nature conservation, systematics, paleontology, plant science and aquatic science. In tune with this increasing demand for refined and updated knowledge, the Journal has coined a new special issue entitled “Trends of evolutionary biology and molecular phytogenetics” with rapid turnaround time for avoiding publishing delays.

The editorial board of the Journal is constituted by 18 eminent academic professionals and subject experts from eight different countries. I express by thanks and gratitude to all the board members, academic advisories and welcome newly appointed members and reviewers. After successful compilation of the previous issues, Journal of Phylogenetics & Evolutionary Biology has been keenly working on promulgating new found knowledge from these identified areas of research in the upcoming issues.

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