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Cell and Molecular Biology: Tracking the Progress of Cytology

Shiny Jacqueline L*

Department of Biotechnology, I.K. Gujral Punjab Technical University, Punjab, Jalandar, India

Editorial

Science communication has progressed and transformed from traditional subscription based to open access mode for wider audience outreach, integration of research endeavors and efficient translation into utilities and services. The Journal Cell and Molecular Biology has been successfully publishing peer-reviewed scientific articles ever since its inception and is currently running its sixty seventh volumes. The Journal has been instrumental in dissemination of scholarly information on cell and molecular biology and has contributed immensely for the advancement in cell science in general. The Journal has been tracking important and significant scientific milestones during the evolution of cell biology. Cell and Molecular Biology has always promoted and encouraged innovations in cell biology while providing a balanced outlook and encompasses all formats of science communications. Apart from this, the Journal has been consistently publishing conference proceedings to keep the readers informed and updated about the contemporary and trending research activities. It is worth mentioning that several eminent researchers, scientists and academicians in the fields of cell biology, molecular biology, genetics, epigenetics, structural biology have contributed substantially through the medium of this Journal. I take this opportunity to wholeheartedly thank all the authors for their valuable contributions. The Journal has recognized the benefits of open success science communications and therefore emphasizes on free distribution of final published versions to all the researchers world-wide. Consequently, the number of clicks, views and downloads have increased steadily over the past few years and the Journal of Cell and Molecular Biology now has ten times more readership compared to subscription based journals in the same field.

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The physical and chemical sciences have contributed immensely to the development of cell biology. In fact Nobel Prize was given for outstanding achievements in these interdisciplinary sciences. Cell biology has gained prominence over the past few decades owing to the technological innovations and applications and consequently several cell biology societies and communities have flourished with good research funding and scholarship.

The advent of revolutions in molecular biology and computational sciences in the post-genomics era and advance microscopy has catapulted the quantum of discoveries in cell biology. Systems biology approaches have adequately addressed the pattern and variability of major cellular and subcellular functions as well as the characterization of pathophysiology of different diseases and disorders. Quantification and localization of the cellular exchanges and dynamics of metabolism were all possible.

Biology in general advanced to functional and structural characterization of various bio-molecules. This has brought together mathematicians, statisticians, physicists, chemists and computer scientists together to work in close collaborations. Experimental studies based on cell culture has enabled the study of various cellular functions including cell signaling, cell apoptosis, locomotion, cell cycle, membrane permeability & trafficking, epithelial polarity, etc. With more and more of functional characterizations, developmental biology slowly started to integrate itself into the cell biology. Genetic engineering has allowed the establishment of cell lines and *in vitro* cell culture studies. *In vitro* cultures facilitated the study of cell adhesion, motility, regeneration, differentiation and specialization in addition to the developmental and evolutionary aspects.

***Corresponding author:** Shiny Jacqueline L, Department of Biotechnology, I.K. Gujral Punjab Technical University, Punjab, Jalandar, India, E-mail: lama.swedbio@gmail.com

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