

Inaugural Editorial: Editorial about the Founding of Medinformatics



Welcome to our journal!

In scientific exploration, few questions have been as profound and enduring as the inquiry into the nature of life itself and equally captivating. From Erwin Schrödinger's seminal lecture in 1943 pondering "what is life?" to the groundbreaking elucidation of the double helix structure of DNA by Watson and Crick in 1956, biology embarked on a transformative journey into the molecular age. The subsequent initiation of the Human Genome Project in 1990 further propelled biomedical science into the information age, marking a significant milestone in our understanding of life at its most fundamental level.

Concurrently, the seeds of artificial intelligence were sown in the fertile minds of visionaries like Turing and Fisher in the 1930s, culminating in the birth of AI at the Dartmouth Summer Research Project on Artificial Intelligence in 1956. Over the decades, AI has evolved from theoretical frameworks to practical applications, profoundly impacting various domains of knowledge.

The convergence of biology and artificial intelligence represents a paradigm shift in scientific exploration. The integration of AI into the study of omics—genomics, proteomics, transcriptomics, metabolomics, and beyond—has revolutionized our ability to decipher the complexities of biological systems. From predictive modeling of gene structures to the elucidation of protein interactions, from the analysis of transcriptomic profiles to

the exploration of epigenetic landscapes, AI has become an indispensable tool in the biologist's toolkit.

In this journal that focuses on the integration of information and life medicine, we embark on countless journeys of artificial intelligence applications in biomedical fields, focusing on the application of omics analysis in analyzing biological processes or disease occurrence and development. In addition, this journal also focuses on the forefront of interdisciplinary research, with a particular focus on the knowledge and methods of artificial intelligence, mathematics, physics, and other disciplines to solve biomedical problems, enhancing our rational understanding of life and disease.

As we founded this magazine, we invited researchers, scholars, and practitioners from different backgrounds to publish cutting-edge biomedical informatics research or join our editorial board. Let us explore the frontiers of knowledge, push the boundaries of innovation, and together, forge a brighter future for biomedical science.

Thank you for embarking on this journey with us.

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