TMB: Translating Knowledge into Applications

Nowadays, translational researches in medicine and biotechnology have emerged as the hottest field in medical and biological researches. Translational sciences are a discipline within biomedical and public health that aim to improve the health status of individuals and communities by "translating" findings into diagnostic tools, medicines, procedures, policies and education modules. Translational research in medicine and biotechnology aim to accelerate the processes of drug therapies and facilitate medical practices, by implementing the findings from basic research to patient care and by applying clinical data in basic research. Translational medicine and biotechnology bridges the bidirectional gap between basic sciences and their application to human health - from bedside to bench to bedside. This is accomplished by exploiting laboratory discoveries to develop new therapies or medical procedures as well as using clinical data in laboratory investigations, indeed some of the significant discoveries were coming from scientific observations in the clinical arena that stimulating research at the laboratory bench. Development of cures for human diseases such as cancer, neurological, cardiovascular and infectious disease still remains challenging in the "omics' era. Therefore, in order to improve global health, translational research was done through the transition from bench-to-bedside for basic biomedical discoveries while emphasizing on new personalized therapy. Translational research, usually involved drug pharmacotherapy and/or applying new discoveries in biotechnology into clinical practice and medical researches.

In conjunction to highlight the importance of translational research, International Journal of Medical Sciences and Biotechnology has changed its names to Translational Medicine and Biotechnology (TMB). TMB has spawned to accomplish the mission which providing a platform to highlight and educate readers, scientists, clinicians and academicians; by publishing high quality works which have translated knowledge from basic research setting into real-world applications. In fulfilment of our future goals, TMB has established a large group of qualified Editorial Review Board members from distinguish basic scientists and clinical investigators who are enthusiastically agreed to support the growth of this journal. Nevertheless, TMB will emphasize the important role of biotechnology in the field of medicine. In the past, medicines or drugs were derived from a variety of natural resources and chemical compounds based on precedence chemical structures. However, in the recent days, scientists have used 'omics'

approaches to develop targeted therapies (small molecule compounds, monoclonal antibodies and vaccines) and diagnostic tools to treat human diseases. The concept of translational sciences involved numerous fields, including pharmacotherapy, genomics, proteomics, stem cells, gene therapy, synthetic biology, and theranostics. Apart from laboratory investigations, translational medicine also encouraging public health research that involved a larger number of communities to prove the "omics" strategies in disease treatment and prevention.

As a new open-access, peer-reviewed online journal, TMB aimed to publish top quality original work and review articles in the fields of translational medicine and biotechnology. Currently, TMB is opened for Editorial, Opinion and Commentary in order to help the public to understand the broad biological implications of new discoveries and to integrate basic research into clinical practice. TMB provides a forum for scientific communities to update news and as an alternative platform for the interchange of thoughts and ideas. However, articles published in this journal are still subject to peer-review process to meet the standards of academic excellence. In view of the need for rapid timeliness in reporting new discoveries in translational medicine and biotechnology, all accepted manuscripts would be available online within four weeks of acceptance. The online-only format of TMB will reduce the time needed from manuscript acceptance to publication, while open access will facilitate readers to obtain all of the materials published in this journal without any cost. Finally, we would like to thank all of TMB editorial board members, colleagues and authors for their supports that have made the launch of this new journal.

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