

Mathematical Language Acquisition in Biomedical Articles

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Editorial

Mathematical equations are a global language that can be used in any field of science. However, just a few biomedical professionals choose to utilise mathematical equations in their writings to introduce new ideas. A significant amount of work in the biomedical sector is required to change this scenario. By presenting fresh beliefs and initiatives, this article aims to encourage more biomedical scientists to do so.

Despite statistical analysis' prominence, only a small number of biomedical articles contain novel mathematical equations for data abstraction and idea introduction. Scientific researchers must, however, discover new "core dogmas" for many established biomedical domains and specialties. People in different sectors of biomedical areas find it difficult to grasp the essence and scientific findings of the article without the use of mathematical equations.

The following pathways may be useful for mathematical advancements in the field of biomedical science, in order to elucidate our argument: Participation in in-depth mathematics courses and conferences can help biomedical scientists improve their mathematical skills. Consider biological problems in terms of mathematics in depth and breadth, particularly for the construction of 'core dogmas' of biological systems and pathways. Make friends with students or scholars who are majoring in mathematics or physics, as collaborative efforts may be beneficial.

Mathematical equations are currently classified into many levels and professional stages. Basic level- offer simple mathematical equations that scientists of all fields may understand. Students with a general mathematical or physics background can understand common mathematical methodology. Mathematical and physics researchers and scientists use, invent, and discuss these terms on a professional level.

In general, high-quality papers do not necessitate mathematical methodological complexity because basic mathematical equations can be grasped by anyone with a high degree of education. In the past, master scientists such as Einstein once said that the simplest mathematical equation is the best and perfect one (similar in meaning, but not the original remark); for example, Einstein's famous general relativity equation $E=mc^2$. As a result, we claim here that no matter what types or levels

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of mathematical equations are used, they can only speed up biological discovery and knowledge translation in the clinic.

We do not believe that mathematical equations in biomedical articles/books are superficial and not useful, for its utility depends on the originality of mathematical equations. Sometimes, it has even a sort of magical influence, as illustrated by the wide-spread presence of $E=mc^2$, which forms the basis modern physics, astrophysics and applications in global positioning systems.

During the major turn toward the use of mathematics in biological research, Harvard Medical School established a systems biology division. During my work as a mathematician, we sought to accomplish something good for mathematical promotion in science by identifying this future trend. We should not miss out on the possibility to advance biomedical research by including mathematical equations because mathematical technique is the common language for all scientific disciplines.

Of course, we oppose excessive usage of this route. Any over usage of this path may result in inconsistency and unforeseen confusion, as well as a waste of money and human resources. To ensure proper use of mathematical equations in biomedical science, regular checks or reviews (every 5 to 10 years) from fund distributions and regulatory committees are required.

The use of more mathematical approaches in biomedical science is a promising future trend that should be supported. In biomedical publications, mathematical approaches may boost the impact and quality of the information. They can improve the uniqueness of future papers, while it is currently impractical to add more rigorous statistical analysis to the large quantity of

already published articles and books. This is a promising path, according to our instincts and experience.

However, because most readers are only familiar with fundamental mathematical equations, we do not urge all authors

to create high-level mathematical equations. Mathematical equations are excellent technical instruments that can help biomedical scientists rethink their results and discoveries in terms of mathematics, so improving the effect of their scientific biomedical discoveries.