

Editorial

Mathematical modeling, as a relevant tool in understanding reality, plays a key role in advancing scientific knowledge of natural and social systems. The increasing complexity of the phenomena addressed requires ever-increasing levels of collaboration and interdiscipline. The grand universe that biology represents, in its many facets, is a clear example of the meaningful dialogue between mathematics and natural sciences. In the last decades the interest of mathematicians in biological problems has increased and similarly, of biologists in understanding and applying sophisticated mathematical tools in their own studies. Our Latin American region is no exception, and an important community of biomathematicians regularly attends the many events organized in the countries of the continent.

In this context, the MatBio-UTEM Research Group, belonging to the Department of Mathematics of the Metropolitan Technological University of Santiago de Chile, has been opening an important path as a training, dissemination and research biomathematics center. The journal, which opens with this issue, is part of this process with a strong collaborative, interdisciplinary and regional sense. We hope that the Journal of Mathematical Modeling of Biological Systems –MMSB– will be a showcase and meeting point that will help to further strengthen these ties. We hope for MMSB to become a benchmark for scientists, from any country, interested in the relationship between mathematics and biology.

This editorial proposal has a strong commitment to the open and democratic circulation of knowledge. We believe that scientific production should be the heritage of humanity, where everyone has free access to the advances of science.

This initiative is the result of the selfless effort of a large number of people who have collaborated in its realization; the group of researchers from MatBio-UTEM, the members of the Editorial Committee, with the presence of colleagues from various universities in Chile and Latin America, the authors who have so generously given us their articles for this first issue, and the team of professionals from Ediciones UTEM who have provided technical and logistical support for the start-up of MMSB; to all, my sincere gratitude.

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Editor in chief

Mathematical Modeling of Biological Systems