

Special Issue

Cell Motility and Its Underlying Cellular and Molecular Mechanisms

Message from the Guest Editor

Cell motility and migration are fundamental in many physiological processes, such as embryogenesis, angiogenesis, wound healing, immune response, and several disease-related processes. The scientific interest in this topic has grown considerably in recent years, spanning a wide range of research fields. Cell movement represents a fundamental cellular function that integrates several cellular processes, including cell adhesion, cell signaling, cytoskeleton activity, and cell volume changes. It occurs thanks to multiple dynamic processes and is modulated by a wide range of biochemical and biophysical signals, either extracellular or intracellular. The research carried out in this field has allowed us to understand many aspects of cell movement; however, because of the inherent complexity of this function, several unanswered questions still need to be addressed. This Special Issue of IJMS aims to cover more recent insights in the research on this field and on the molecular and cellular mechanisms and properties of this fundamental function, particularly the signaling networks underlying the motility and migration of individual cells as well as collective migrations.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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