

Special Issue

LIM Kinases: From Molecular to Pathological Features

Message from the Guest Editors

The LIM kinases LIMK1 and LIMK2 were discovered in 1994 and 1995, respectively. They were characterized as dual kinases phosphorylating both Ser/Thr and Tyr residues. Their role in actin cytoskeleton remodeling was quickly demonstrated via the inhibition of their substrate actin depolymerizing factor ADF/cofilin. They also regulate microtubule polymerization, but the molecular actors in this process remain unknown. According to their role in cytoskeleton remodeling, LIM kinases contribute to many cellular functions, such as cell motility, morphogenesis, division, differentiation, apoptosis, neuronal morphology, neuritogenesis, and oncogenesis. Recently, the number of LIM kinase substrates has started to grow, suggesting other functions for these proteins. In the last 10 years, LIM kinases have also attracted special attention as their involvement in several diseases has been shown. In this Special Issue, we want to provide an extensive overview of these very peculiar kinases, starting from their molecular characterization and ending with their pathological implications. For further reading, please visit the [Special Issue website](#).

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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