



Special Issue Reprint

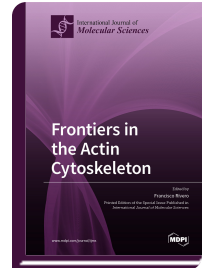
Frontiers in the Actin Cytoskeleton

www.mdpi.com/books/reprint/2546

Edited by
Francisco Rivero

ISBN 978-3-03936-565-4 (Hardback)

ISBN 978-3-03936-566-1 (PDF)



This Special Issue of IJMS covers a broad range of cutting-edge aspects related to the organization, function, and role in disease of the actin cytoskeleton. This cellular structure is of fundamental importance for the homeostasis of every eukaryotic cell, from the simplest unicellular organism to the most complex animal cell. The actin cytoskeleton contributes to developing and maintaining cell shape and tissue integrity and is crucial for cell migration, movement of organelles, vesicle trafficking, and the completion of cell division. Elaborate structures like the sarcomere, the inner ear cell stereocilia, and the brush border microvilli are built on actin filament scaffolds. Dozens of actin-binding proteins orchestrate the dynamic remodeling of the actin cytoskeleton and integrate it with microtubules and intermediate filaments and with the cell signaling machinery. Playing such fundamental roles in a plethora of cellular processes, it comes as no surprise that defects in actin and associated proteins have been found to be implicated in pathological conditions as diverse as myopathies and neurodegenerative diseases. This Special Issue gathers 15 contributions highlighting the impressive advances made in recent years in this exciting field.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/2546

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.