

Special Issue

Function and Regulation of Hyaluronan and Hyallectins in Disease

Message from the Guest Editors

Hyaluronan and its interacting proteins (hyallectins) are increasingly recognized as important molecules for homeostasis and disease. The simplicity of hyaluronan, which is a polymer of alternating sugars glucuronate and N-acetylglucosamine, is also one of the largest molecules in mammals. It contains both hydrophobic and hydrophilic properties including a net negative charge that allows it to interact with a variety of proteins and receptors that influence a host of physiological functions. These physiological functions include inflammation, intercellular structure, cellular development and differentiation, cellular signaling, cancer, and metabolism. In this Special Issue of *Biomolecules*, we would like to highlight the recent discoveries of the importance of hyaluronan in our general well-being, in diseases when it goes awry and its role in medical devices and cosmetics. We also invite a rigorous discussion of how novel advances in hyaluronan research would improve therapeutic outcomes from cancer to arthritis to pulmonary diseases. Both research papers (in particular) and reviews (both focused or general) are welcome.

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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