

## Special Issue

# The Role of Fibrinolytic System in Health and Disease 2.0

### Message from the Guest Editor

The proteolytic enzyme plasmin is the central component of the fibrinolytic system (also known as the plasminogen–plasmin system). Originally thought to be a regulator of fibrin removal, it is now known to be more complex. It consists of several serine proteases and their inhibitors (serpins). These are involved in many physiological functions in the pathogenesis of many diseases, including atherosclerosis, obesity, cancer, immune disorders, neuronal degeneration, trauma, inflammation and aging. Knowledge of their role in cancer enables their use as a prognostic factor. Therapeutic use of the various forms of proteases derived from this system has been employed in the form of thrombolytic agents. In addition, small molecules designed to inhibit many of the components of the fibrinolytic system are now available in clinical trials, aimed at the treatment of these various disorders. This remarkable development of our knowledge on fibrinolysis is the present theme of this Special Issue of the *International Journal of Molecular Sciences*.

### Guest Editor

Prof. Dr. Hau C. Kwaan

Division of Hematology and Oncology, Department of Medicine,  
Feinberg School of Medicine, Northwestern University, Chicago, IL  
60611, USA

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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