



Metformin: Mechanism and Application

Guest Editor:

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Deadline for manuscript
submissions:

closed (20 July 2018)

Message from the Guest Editor

Although metformin has been available for almost a century, Europe only discovered it 60 years ago. However, it took a further 38 years for America to appreciate its virtues. Metformin has been shown to be the first cardioprotective drug in type 2 diabetes, as born by UKPDS trial, and others that followed. The scientific interest in metformin has recently increased with a variety of tissues being studied, and use of metformin in a wide range of patients outside licensed indications. The pleiotrophic actions of metformin stretch from improving insulin resistance, membrane-related effects to cardioprotective mechanism via CD34+ umbilical cord blood stem cells and the reduction of myocardial infarct size.

This Special Issue of the International Journal of Molecular Sciences has the aspiration of addressing (nonexclusively) the mechanisms of metformin action in different tissues from endothelial cells, hepatocytes, myocytes, cancer cells to clinical studies of translational design supported by laboratory investigations.





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Message from the Editor-in-Chief

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