



Mechanisms of Adiponectin Action 3.0

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Message from the Guest Editor

Adiponectin is an adipokine circulating in the blood stream and is locally produced by various tissues. The main effect of adiponectin concerns metabolism regulation, since it controls glucose and triglyceride homeostasis, thus helping insulin action in healthy tissues, such as liver and skeletal muscle. Obesity and metabolic syndrome lead to adiponectin decrease, thus predisposing diabetes onset. However, growing evidence suggests a more pleiotropic role of the hormone in different tissues. Adiponectin affects autophagy, cell differentiation, and stem cell behavior, while hypo adiponectinemia has been correlated with several types of cancers. The Special Issue on the topic of “Mechanisms of Adiponectin Action” in the *International Journal of Molecular Sciences* will include a selection of research papers and reviews about various aspects of the molecular and cellular biology of adiponectin. In addition, studies on molecules able to modulate adiponectin signaling, and their possible use in the treatment of pathologies in which adiponectin is involved, will also be considered.

Keywords

- Adiponectin
- Metabolism
- Cell signaling
- Differentiation
- Stem cells
- Cancer





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Message from the Editor-in-Chief

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