



Mechanisms of Insulin Resistance at the Crossroad of Obesity with Associated Metabolic Abnormalities

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Message from the Guest Editors

Insulin resistance represents an impaired biological response to insulin stimulation of target tissues, primarily liver, muscle, and adipose tissue. It is recognized as the root for hypertension, dyslipidemia, non alcoholic fatty liver disease, polycystic ovary syndrome, atherosclerosis, and adverse cardiac remodeling/heart failure. Insulin resistance is also risk factor for cancer development. The list of target organs has recently been elongated, recognizing its role in the pathogenesis of type 2 diabetes associated dementia and Alzheimer's disease (AD), a condition known as Type 3 diabetes (T3D). Furthermore, the impact of environment (e.g., exposure to bacteria or pollutants) on the onset of metabolic abnormalities is becoming evident.

We invite investigators to contribute either original research articles or review articles focusing on the variety of molecular mechanisms that either contribute to the worsening of insulin resistance in obese patients, or that, triggered by insulin resistance, cause the onset and progression of comorbidities associated with obesity.





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