

Special Issue on
Insulin Signaling Inhibitor Molecules

CALL FOR PAPERS

The impaired activation of the insulin signaling network has a major role in the pathogenesis of several metabolic disorders, including type 2 diabetes and major cardiovascular diseases, through its effects on defective insulin sensitivity and impaired glucose regulation, lipid metabolism, hypertension, and atherosclerosis. The binding of insulin to its specific membrane receptor activates a signaling cascade that involves a large number of intracellular proteins not yet completely characterized to date. Several of these molecules act as signaling inhibitors; that is, their increased activation/expression results in a reduced ability of insulin to exert its cellular actions. The relevance of these signaling mediators is however somewhat underappreciated, as they are comparatively less studied than their positive counterparts.

The purpose of this special issue is to foster the publication of original research articles as well as review papers that will focus the interest of the scientific community on these key molecules, highlighting their relevance to the impairment of insulin signaling and their potential as therapeutic targets for the treatment of insulin-resistance related diseases.

Potential topics include but are not limited to the following:

- ▶ Identification and characterization of novel insulin signaling inhibitors
- ▶ Identification and characterization of genetic variants of genes coding for insulin signaling inhibitor molecules
- ▶ Characterization of the role of one or more insulin signaling inhibitor(s) in insulin-resistant cellular models
- ▶ Characterization of the role of one or more insulin signaling inhibitor(s) in insulin-resistant animal models
- ▶ Characterization of the role of one or more insulin signaling inhibitor in pancreatic beta-cell dysfunction
- ▶ Insulin signaling inhibitors as potential therapeutic targets for insulin-resistance related diseases
- ▶ Insulin signaling inhibitors as biomarkers of insulin-resistance related diseases

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