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20th Anniversary of Pharmaceuticals—Therapeutic Mechanisms of Nature Products against Insulin Resistance 2024

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Message from the Guest Editors

Insulin resistance corresponds to a reduced responsiveness of insulin-sensitive tissues to physiological levels of insulin. This disorder is present in several diseases, such as metabolic syndrome, type 2 diabetes, nonalcoholic fatty liver disease (NAFLD) and cardiovascular diseases.

To improve metabolic disorders, pharmacological strategies include insulin sensitisers, insulin secretagogues, α -glucosidase inhibitors, and sodium–glucose co-transporter 2 inhibitors. Natural products are also a source of active compounds that could be useful tools to improve metabolic disorders in combination with pharmacological drugs. They can originate from plants, animals, microorganisms, food ingredients, and traditional medicine, and can act directly on insulin resistance to improve glucose homeostasis. They can target insulin-sensitive tissues, such as skeletal muscle, adipose tissues, liver, or the cardiovascular system.

We thus invite investigators to provide studies investigating the therapeutic mechanisms of natural products at cellular and molecular levels on the target tissues that contribute to insulin resistance.



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Special Issue



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Editor-in-Chief

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