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## An association of metabolic syndrome constellation with cellular membrane caveolae: A possible mechanism

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Metabolic syndrome (MetS) is a cluster of metabolic abnormalities that can predispose an individual to a greater risk of developing type-2 diabetes and cardiovascular diseases. The cluster includes abdominal obesity, dyslipidemia, hypertension and hyperglycemia, all of which are risk factors to public health. While searching for a link among the aforementioned malaises, clues have been focused on the cell membrane domain caveolae, wherein the MetS-associated active molecules are co-localized and interacted with to carry out designated biological activities. Caveolae disarray could induce all of those individual metabolic abnormalities to be present in animal models and humans, providing a new target for therapeutic strategy in the management of MetS. Using a cellular model of caveolae inter-cellular movement (with the eGFP-labelledcaveolae), several potential herbal extracts and nutrients have shown their effects on externalization of caveolae, opening an initiative for the associated metabolic pathways. This also is supported by recent publications which have demonstrated that some clinical effective Chinese herbal or herbal extracts for the treatments of hypertension, hyperlipidemia and hyperglycemia can have a stimulating effect on cellular caveolae bioactivity. A new therapeutic target to effectively treat and prevent metabolic syndrome safely without significant side effects may become possible.

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### Metabolic dysregulation and cancer-related outcomes: Implications for exercise in obese breast cancer survivors

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MetD, it is important, possibly preferable, to target lifestyle factors such as exercise and dietary intake affect the risk of developing MetD, it is important, possibly preferable, to target lifestyle factors to prevent/manage MetD in BCS, particularly due to the guest of MetD in BCS is a much needed area of research. Exercise may be an effective intervention for attenuating MetD, thereby reducing risk for additional associated chronic diseases. Since lifestyle factors to prevent/manage MetD in BCS, particularly due to the additional associated chronic diseases. Since lifestyle factors to prevent/manage MetD in BCS, particularly due to the prevent of the physiologic burden of other cancer-related outcomes and the utilization of effects. The purpose of this symposium will be to discuss the impact of MetD on cancer-related outcomes and the utilization of exercise to target MetD in obese BCS.

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