

Seminar

Oxidative stress induced vascular dysfunction in type-2 diabetes and obesity

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Type-2 diabetes (non-insulin dependent diabetes) is a significant global health problem. 75% of the people diagnosed with type-2 diabetes happen diabetes, functional and hypertension. In structural changes in blood vessel increase the risk of cardio-vascular complications. Hyper-contractility of micro-vessels is one such functional complication observed in diabetes which affects micro-circulation and ultimately the systemic blood pressure. Functional changes in the blood vessels are followed by structural changes. However, the mechanism for this functional change in diabetes is not clear.

In the first part of my talk, I will explain the mechanism of insulin resistance and diabetes induced cardio-vascular complications in detail. In the second half, I will discuss how the defective antioxidant network in type-2 diabetes alters the vessel constriction and how important is the Nrf-2 mediated antioxidant network in maintaining normal vessel function.

Wednesday, September 3rd 2014

4:00 PM (Tea/Coffee at 3:30 PM)

Seminar Hall, TCIS