



Journal of Diabetes Research

Special Issue on
"Good Lipids" in Diabetes and Associated Complications

CALL FOR PAPERS

Obesity and type 2 diabetes (T2D) are increasing at epidemic proportions worldwide. Dysregulated insulin secretion, glucose intolerance, and increased resistance to insulin by peripheral tissues are primarily responsible for the manifestation and progression of diabetes. Circulating glucose and lipids have major contributing role in the development of insulin resistance during diabetes. Emerging evidences suggest that dietary omega-3 fatty acids and the endogenously produced palmitoleate and FAHFAs (Fatty Acids on Hydroxy Fatty acids) possess favorable metabolic and therapeutic effects. Furthermore, large epidemiological studies show that an increased ratio of unsaturated to saturated fatty acids in serum triacylglycerols is associated with a reduced risk of T2D. However, the biomolecular mechanism(s) underlying the effects of favorable lipids on diabetes is beginning to be understood. Changes in the levels of endogenous lipids and their metabolites and their signaling pathways may provide important insights and new treatment avenues for metabolic disease states.

Here in this special issue, we invite researchers, scholars, and scientists to contribute their original research as well as review articles that are directed towards elucidating the mechanisms by which endogenously synthesized or dietary supplemented lipids improve the metabolic disease states and thereby cellular longevity: primarily of islets, retinal cells, and neuronal cells. We welcome research articles in the area of diabetes and its related disease states that describe novel findings on the role and regulation of lipids.

Potential topics include, but are not limited to:

- ▶ Recent advances in molecular biochemistry of lipids during metabolic diseased states
- ▶ Therapeutic effects of “favorable lipids” and their mechanism(s) in the amelioration of inflammation-driven diabetes and its complications (i.e., neuropathy, retinopathy, and autoimmune and gestational diabetes)
- ▶ Studies targeting diabetes and its related diseases, in which lipids could potentially be a biomarker for screening the metabolic diseased state and/or a target for therapeutic interventions

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jdr/gld/>.

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First Round of Reviews

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