



Connecting lipid droplet biology and the metabolic syndrome.

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Auteur	Le Lay, Soazig [1], Dugail, Isabelle [2]
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Résumé en anglais	<p>In the recent years, new advances in the biology of lipid droplets led these structures specialized for lipid storage to be considered as new universal intracellular organelles playing active roles in cell physiology. Concomitantly, studies on the pathogenesis of metabolic diseases such as type 2 diabetes or atherosclerosis, associated with ongoing epidemic obesity, have pointed out the importance of lipotoxic effects in metabolic dysfunction, generated by ectopic lipid storage in non-adipose tissues. The purpose of this paper is to establish connections between recent discoveries in lipid droplet biology and novel views in the pathology of the metabolic syndrome. Bringing together the new concepts produced in these two separated fields might show the way towards the definition of innovative strategies to treat metabolic diseases. Particular attention is given to the role of adipocyte-specific proteins that interact with lipid droplets and confer unique functions to adipocyte lipid storage by limiting the spill-over of fatty acids and their lipotoxic effects.</p>
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Liens

- [1] <http://okina.univ-angers.fr/soazig.lelay/publications>
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