

BIOCHEMISTRY

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Premium Edit

Lipid droplets (LDs), alias-also known as adiposomes or fat bodybodies, has been found to have are ubiquitously presence-present in lipid-overloaded cells in eukaryotes ranging from across-yeast to mammals. Since their earliest description in the 19th centuryFor a long time, LDs was-were thought to be simply as an inactive-inert lipid reservoirs-since it's earliest description in 19th century. However, the Pdiscovery of perilipin, an LD-associated protein that coats LDs in adipocytes, makes researchers to has challenged the understanding-this view of LD as lipid storage. LDs is-are now recognized as a-dynamic organelles comprised composed of a monolayer-phospholipid monolayer, with an embeddingembedded of with a lot of many proteins without across-transmembrane_spanning domains, and a hydrophobic core that contains triacylglycerols (TGs) and sterol esters. TGs are the key-neutral lipids required for LDs formation in adipocytes. Studies have shown that the Pdeletion of genes encoding enzymes responsible for neutral lipid synthesis—for example, diacylglycerol acyltransferase (DGAT)—eliminatesed LDs formation in adipocytes.

Comment [A1]: I have made this change because "inert" rather than "inactive" is used in the technical sense to mean without active chemical/biological properties. Please let me know if your intended meaning was different.

Comment [A2]: The phrase "a lot of" lends a rather casual tone to a written article and is therefore best avoided in scientific papers. "Many" is not just an appropriate but also a concise alternative.

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