

Title (en)

ANIMAL MODELS AND METHODS FOR ANALYSIS OF LIPID METABOLISM AND SCREENING OF PHARMACEUTICAL AND PESTICIDAL AGENTS THAT MODULATE LIPID METABOLISM

Title (de)

TIERMODELE UND VERFAHREN ZUR ANALYSE VON LIPIDMETABOLISMUS UND ZUM SCREENEN VON PHARMACEUTICA UND PESTICIDE MITTELN DIE DAS LIPIDMETABOLISMUS MODULIEREN

Title (fr)

MODELES ANIMAUX ET METHODES D'ANALYSE DU METABOLISME DES LIPIDES ET CRIBLAGE D'AGENTS PHARMACEUTIQUES ET DE PESTICIDES MODULANT LE METABOLISME DES LIPIDES

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Abstract (en)

[origin: WO0076308A1] Drosophila melanogaster and *C. elegans* that have been genetically modified to express or mis-express proteins involved in the sterol regulatory element binding protein (SREBP) pathway are described. These genetically modified animal models have identifiable phenotypes that make them useful in assays for studying lipid metabolism, other genes implicated in lipid metabolism, and compounds capable of modulating lipid metabolism pathways. Methods for studying lipid metabolism in living memetodes using fluorescently labeled fatty acid conjugates, such as BODIPYTM fatty acid conjugates, are also described. Novel SREBP pathway nucleic acid and protein sequences are also described.

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