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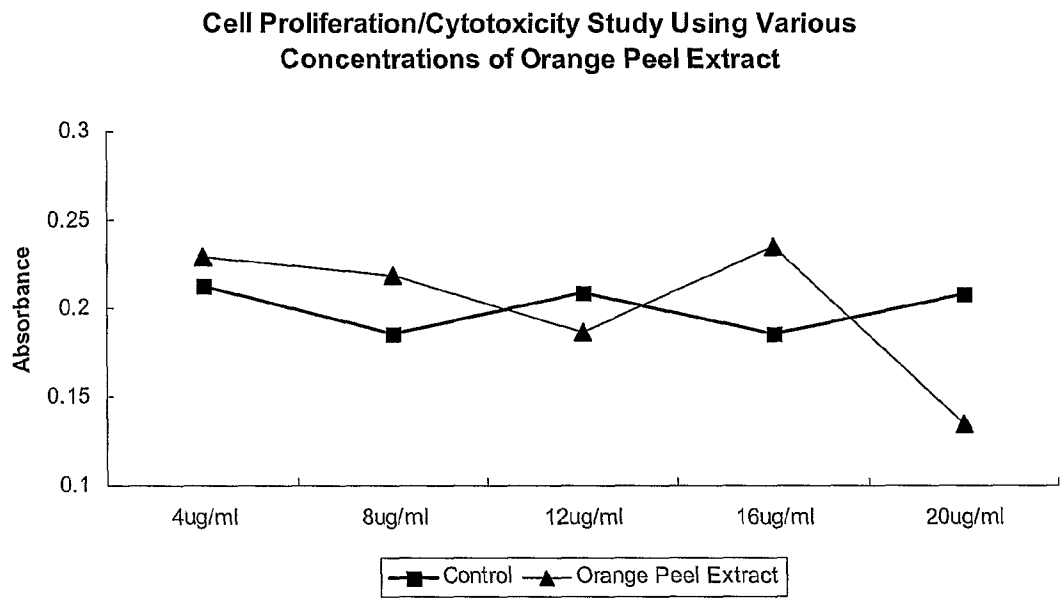
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(54) Title: METHODS FOR MANAGING ADIPOCYTE FAT ACCUMULATION



(57) Abstract: The present invention provides methods for management fat accumulation in an adipocyte using compositions comprising a polymethoxylated flavone fraction of at least one of 5,6,7,3',4'-pentamethoxyflavone (sinensetin); 5,6,7,8,3',4'-hexamethoxyflavone (nobiletin); 5,6,7,8,4'-pentamethoxyflavone (tangeretin); 5-hydroxy-6,7,8,3',4'-pentamethoxyflavone (auranetin); 5-hydroxy-7,5,8,3',4'-tetramethoxyflavone; 5,7-dihydroxy-6,8,3'.,4'-tetramethoxyflavone; 5,7,8,3',4'-pentamethoxyflavone; 5,7,8,4'-tetramethoxyflavone; 3,5,6,7,8,3',4'-heptamethoxyflavone; 5-hydroxy-3,6,7,8,3',4'-hexamethoxyflavone; 5-hydroxy-6,7,8,4'-tetramethoxyflavone; 5,6,7,4'-tetramethoxyflavone; 7-hydroxy-3,5,6,8,3',4'-hexamethoxyflavone; or 7-hydroxy-3,5,6,3',4'-pentamethoxyflavone. In certain embodiments, methods for preventing rebound weight gain in a subject who has experienced weight loss are provided.

WO 2007/024982 A3

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