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(54) **HEXANOYLGLYCINE AS BIOMARKER FOR THE PREDISPOSITION FOR WEIGHT GAIN AND OBESITY**

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See application file for complete search history.

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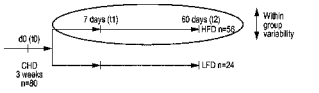
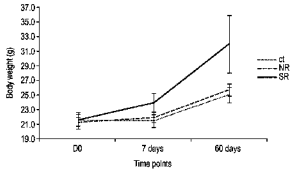
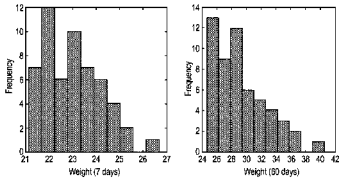
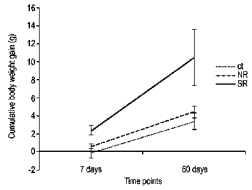
(57) **ABSTRACT**

The present invention relates generally to the field of nutrition and health. In particular, the present invention relates to a new biomarker, its use and a method that allows it to diagnose the likelihood to resist diet induced weight gain, and/or to be susceptible to a diet induced weight gain. For example, the biomarker may be hexanoylglycine.

13 Claims, 9 Drawing Sheets