

University of Groningen

Adipose tissue

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2017

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Nies, V. (2017). *Adipose tissue: Target and toolbox for the treatment of metabolic disease*. [Thesis fully internal (DIV), University of Groningen]. Rijksuniversiteit Groningen.

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Stellingen

Behorende bij het proefschrift

Adipose tissue: Target and toolbox for the treatment of metabolic disease

- 1) The biggest therapeutic potential of FGFs for the treatment of metabolic disease does not lie in the wild-type FGFs, but in the development of FGF-based drugs, such as FGFR antibodies or FGF mutant proteins. - *This thesis*
- 2) The presence of insulin resistance is a prerequisite for FGF1 to exert its blood glucose lowering effect *in vivo*, making FGF1 a putative drug to treat insulin-resistant states. - *This thesis*
- 3) The acute blood glucose lowering properties of pharmacologically administered FGF1 depend on a complex interplay between adipose and muscle. - *This thesis*
- 4) Whereas the role of the MEK-ERK signaling pathway in cell proliferation and tumor formation has been extensively studied, little is known about the relevance of this pathway for metabolic processes, and how it communicates with other intracellular signaling pathways involved in metabolic regulation. - *This thesis*
- 5) *TUB* is expressed in several hypothalamic nuclei and in the adipose tissue in humans. Its expression in adipose tissue, but not in the hypothalamus, correlates with indices of body weight and obesity in an adipose tissue depot specific manner. How *TUB* affects metabolism in humans is currently obscured due to the lack of an unequivocal molecular functional mechanism for its gene product. - *This thesis*
- 6) As with photography, the success of research relies on picking the right model and the use of adequate timing. - *This thesis*
- 7) Appreciate your adipose. It functions as an energy buffer, it regulates your appetite, it protects you from high circulating fatty acid levels and ectopic lipid storage, it keeps you warm, it forms an attractive inbuilt cushion for extra sitting comfort, and functions as a toolbox that can be used to investigate metabolism. - *This thesis*
- 8) If we would take the advices of Michael Pollan ("Eat food. Not too much. Mostly plants.") and Ido Portal ("Live life dynamically. Move more.") more at heart there would be less need for anti-diabetic drugs altogether.
- 9) Eu sou discípulo que aprende, e mestre que dá lição (I am a student that learns, and a master who teaches). - *Capoeira song*
- 10) Van het concert des levens krijgt niemand een program. - *Tegeltjeswijsheid*

Vera Nies, 24 mei 2017