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**Manuscript NO:** 59150

**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**Vanadium-dependent activation of glucose transport in adipocytes by catecholamines is not mediated *via* adrenoceptor stimulation or monoamine oxidase activity**

Glucose uptake activation in adipocytes by catecholamines and vanadium

**Abstract**

**BACKGROUND**

Benzylamine and methylamine activate glucose uptake in adipocytes.

**AIM**

For tyramine, such effect has even been extended to cardiomyocytes, while the effects of catecholamines and other amines remain poorly defined



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## New actions of an old friend: perivascular adipose tissue ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5610157>

In white **adipocytes**,  $\beta$  **adrenoceptor** agonists stimulate lipolysis ( $\beta$  1,  $\beta$  2,  $\beta$  3; which are Gs-coupled), glycogenolysis ( $\beta$  1) and inhibit **glucose transport** ( $\beta$  2; Lafontan and Berlan, 1993). The  $\alpha$  1 - adrenoceptors are coupled to Gq and result in the **activation** of PKC and thermogenesis in brown **adipocytes** and glycogenolysis in white ...

Cited by: 12

Author: Nadia Ayala-Lopez, Stephanie W Watts

Publish Year: 2017

## Stimulation of glucose transport by semicarbazide ...

<https://www.researchgate.net/publication/7187752...>

In this work, we studied in white adipose tissue (WAT) the influence of sustained beta3-adrenergic **stimulation** on the **glucose transport** and on the mitochondrial **monoamine oxidase (MAO) activity**.

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