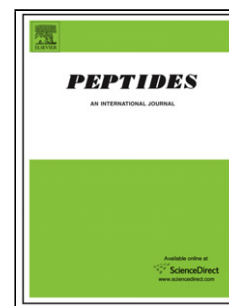


Accepted Manuscript

Title: Insulin as a hormone regulator of the synthesis and release of leptin by white adipose tissue

Authors: Gleuber Henrique Marques-Oliveira, Thaís Marques da Silva, William Gustavo Lima, Helder Magno Silva Valadares, Valéria Ernestânia Chaves



PII: S0196-9781(18)30123-2
DOI: <https://doi.org/10.1016/j.peptides.2018.06.007>
Reference: PEP 69986

To appear in: *Peptides*

Received date: 13-3-2018
Revised date: 20-6-2018
Accepted date: 24-6-2018

Please cite this article as: Marques-Oliveira GH, da Silva TM, Lima WG, Silva Valadares HM, Chaves VE, Insulin as a hormone regulator of the synthesis and release of leptin by white adipose tissue, *Peptides* (2018), <https://doi.org/10.1016/j.peptides.2018.06.007>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Insulin as a hormone regulator of the synthesis and release of leptin by white adipose tissue

Gleuber Henrique Marques-Oliveira¹, Thaís Marques da Silva¹, William Gustavo Lima¹, Helder Magno Silva Valadares², Valéria Ernestânia Chaves^{1*}

¹Laboratory of Physiology and ²Molecular Genetic, Federal University of São João del-Rei, Divinópolis, Minas Gerais, Brazil

*Corresponding author: Valéria Ernestânia Chaves, Avenida Sebastião Gonçalves Coelho, 400, Chanadour, 35.501-296, Divinópolis, Minas Gerais, Brazil. Tel: +55-37-3221-1393. Fax: +55-37-3221-1352. E-mail: valeria.chaves@gmail.com (V.E. Chaves).

Highlights

- Insulin stimulates leptin transcription via PI3K and mTOR in white adipose tissue.
- Insulin stimulates biosynthesis and leptin release via PI3K, Akt and mTOR.
- Insulin regulates leptin promoter by SREBP1, C/EBP- α and Sp1 transcription factors.
- Glucose metabolism seems to contribute to leptin release by white adipose tissue.

Download English Version:

<https://daneshyari.com/en/article/8347288>

Download Persian Version:

<https://daneshyari.com/article/8347288>

[Daneshyari.com](https://daneshyari.com)