

Mitochondria, lipotoxicity and skeletal muscle metabolism : implications for type 2 diabetes mellitus

Citation for published version (APA):

van Bree, B. W. J. (2014). *Mitochondria, lipotoxicity and skeletal muscle metabolism : implications for type 2 diabetes mellitus*. Uitgeverij BOXPress.

Document status and date:

Published: 01/01/2014

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

Stellingen

Behorend bij het proefschrift:

Mitochondria, lipotoxicity and skeletal muscle metabolism: implications for type 2 diabetes mellitus

1. Diet-induced oxidative stress is not a prerequisite for the development of muscle insulin resistance. (This thesis)
2. The mitochondrial protein mitoNEET does not play a role in the regulation of skeletal muscle substrate oxidative capacity. (This thesis)
3. UCP3 does not preserve skeletal muscle mitochondrial oxidative capacity under lipid-challenged conditions. (This thesis)
4. 2,4-Dinitrophenol is not a good agent for improving glucose homeostasis in skeletal muscle. (This thesis)
5. Intramyocellular lipid content is a determinant of *in vivo* insulin resistance in humans. (Perseghin G et al, Diabetes; 48:1600-1606, 1999)
6. Despite the age-related loss of cellular functionality can have major repercussions at the level of mitochondrial redundancy, the diminished mitochondrial function with advancing age can also have an important role in the loss of overall cellular functionality. (Figueiredo P et al, Biogerontology; 9(2):67-84, 2008)
7. Appetite is governed by our thoughts, but hunger is governed by the body. (Martin CG, Low Blood Sugar: The Hidden Menace of Hypoglycemia)
8. Understanding the cellular mechanism(s) of insulin resistance in turn offers the prospect of better targeted and more effective therapeutic interventions for treatment and prevention of type 2 diabetes. (Petersen KF, Am J Med; 119(5):S10-S16, 2006)
9. We thrive not when we have done it all, but when we still have more to do. (Sarah Lewis, 2014)
10. Promoveren is net als het fietsen van de Amstel Gold Race: pieken en dalen, en de finish aan de top.

Bianca van Bree, 17 oktober 2014