

Universiteit Antwerpen
Faculteit Geneeskunde



THE ROLE OF ADIPONECTIN IN CHRONIC HEART FAILURE

THE ROLE OF ADIPONECTIN IN CHRONIC HEART FAILURE

*Focus on skeletal muscle metabolism
and effect of exercise training*

Proefschrift voorgelegd tot het
behalen van de graad van doctor
in de Medische Wetenschappen
aan de Universiteit Antwerpen
te verdedigen door

An VAN BERENDONCKS



AN VAN BERENDONCKS

2011

Antwerpen, 2011

Promotoren: Prof. dr. V. Conraads
Prof. dr. C. Vrints

An Van Berendoncks

heeft het genoegen u uit te nodigen op de openbare verdediging van haar doctoraal proefschrift

THE ROLE OF ADIPONECTIN IN CHRONIC HEART FAILURE

Focus on skeletal muscle metabolism and effect of exercise training

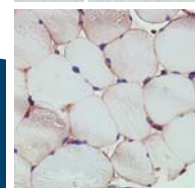
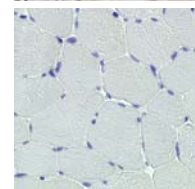
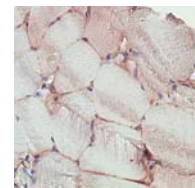
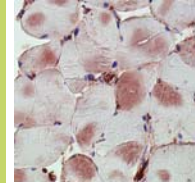
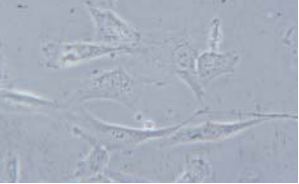
Vrijdag 8 juli 2011 om 17u

Universiteit Antwerpen, Campus Drie Eiken, Aulagebouw (Q), Promotiezaal

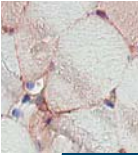
Universiteitsplein, Wilrijk

Aansluitend bent u van harte uitgenodigd op de receptie

Graag uw aanwezigheid bevestigen vóór 1 juli
an.vanberendoncks@ua.ac.be



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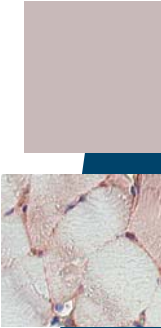


Chapter 1 **Introduction**

Adapted from:
Van Berendoncks AM, Conraads VM.
Functional Adiponectin Resistance and
Exercise Intolerance in Heart Failure.
Invited review.
Curr Heart Fail Rep. 2011;8:113-22.

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Chapter 2
***Aims, organization and
outline of the thesis***



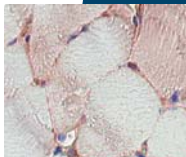
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Chapter 3

Adiponectin, from plasma to skeletal muscle in chronic heart failure

Adapted from:

*Van Berendoncks AM, Conraads VM,
Van Leuven W, Van Hoof V,
De Wilde S, Vrints CJ, Hoymans VY.
Validation of an adiponectin immunoassay
in human skeletal muscle biopsies.
J Immunol Methods. 2010;362:209-12.*

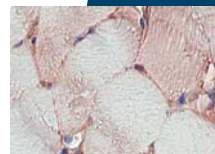


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Chapter 4

Prognostic value of adiponectin in chronic heart failure

Van Berendoncks AM, Beckers P, Hoymans VY, Possemiers N, Coenen S, Elseviers MM, Vrints CJ, Conraads VM.
Beta-blockers modify the prognostic value of adiponectin in chronic heart failure.
Int J Cardiol 2010; doi:
10.1016/j.ijcard.2010.04.039
Epub ahead of print

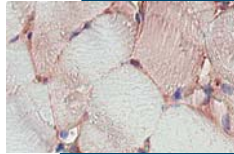


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Chapter 5

Exercise training reduces circulating adiponectin levels in patients with chronic heart failure

*Van Berendoncks AM, Beckers P,
Hoymans VY, Possemiers N,
Wuyts FL, Vrints CJ, Conraads VM.
Clin Sci (Lond). 2010;118:281-9*

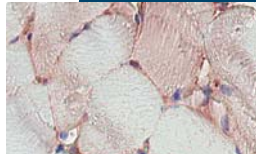


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Chapter 6

Functional adiponectin resistance at the level of the skeletal muscle in mild to moderate chronic heart failure

Van Berendoncks AM, Garnier A, Beckers P, Hoymans VY, Possemiers N, Fortin D, Martinet W, Van Hoof V, Vrints CJ, Ventura-Clapier R, Conraads VM. Circ Heart Fail. 2010;3:185-94.

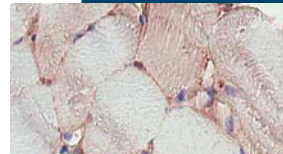


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Chapter 7

Exercise training reverses adiponectin resistance in skeletal muscle of chronic heart failure patients

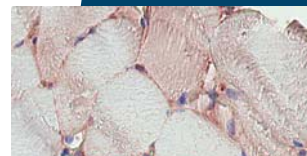
Van Berendoncks AM, Garnier A, Beckers P, Hoymans VY, Possemiers N, Fortin D, Van Hoof V, De Wilde S, Vrints CJ, Ventura-Clapier R, Conraads VM. Exercise training reverses adiponectin resistance in skeletal muscle of patients with chronic heart failure. Heart 2011; Epub ahead of print DOI 10.1136/hrt.2011.226373



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Chapter 8 *Discussion and* *future perspectives*

Adapted from:
Van Berendoncks AM, Conraads VM.
Functional Adiponectin Resistance and
Exercise Intolerance in Heart Failure.
Invited review.
Curr Heart Fail Rep. 2011;8:113-22.



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Chapter 9
Summary -
Samenvatting

