Endothelial dysfunction in experimental models of preclinical diabetic retinopathy

McWilliams Hughes, John

Link to publication

Citation for published version (APA):
McWilliams Hughes, J. (2010). Endothelial dysfunction in experimental models of preclinical diabetic retinopathy

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (http://dare.uva.nl)

Download date: 15 Dec 2018
In memory of my mother, for always being there for me
The research presented in this thesis was made possible by the financial support of the Dutch Diabetes Fund (grant number 1998.131); the Dutch National Foundation for the Visually Impaired and Blind; the Blindenpenning Foundation, Amsterdam; the Society for the Blind, Rotterdam; the Society for the Blind, Gelderland; and the Edward en Marienne Blaauw Fonds, The Netherlands.

The studies described in this thesis were performed at the Department of Cell Biology and Histology at the Academic Medical Center (AMC), University of Amsterdam, The Netherlands; The Interuniversity Institute of Ophthalmology, Amsterdam, The Netherlands; The Department of Clinical Chemistry and Institute of Cardiovascular Research, VU University Medical Centre, Amsterdam, the Netherlands and at The Department of Ophthalmology, The Queen’s University of Belfast, The Royal Victoria Hospital, Belfast, Northern Ireland, UK.

Cover: Retinal blood-vessels isolated using osmotic shock technique.
Cover design: John Hughes
Layout & printing: Off Page, Amsterdam

Copyright © 2009 by J. Hughes. All rights reserved. No part of this publication may be reproduced, stored or transmitted in any way without prior permission from the author.
Endothelial dysfunction in experimental models of preclinical diabetic retinopathy

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. D.C. van den Boom
ten overstaan van een door het college voor promoties
ingestelde commissie,
in het openbaar te verdedigen in de Aula der Universiteit
op woensdag 20 januari 2010, te 12:00 uur

door

John McWilliams Hughes
geboren te Durham, North Carolina, USA
Promotiecommissie

Promotores: Prof. dr. C.J.F. van Noorden
            Prof. dr. R.O. Schlingemann

Co-promotores: Dr. I. Klaassen
                Prof. dr. M.P. Mourits

Overige leden: Prof. dr. S.T. Pals
                Prof. dr. W.M. Wiersinga
                Prof. dr. J.M.F.G. Aerts
                Prof. dr. A.A.B. Bergen
                Prof. dr. A. Kijlstra
                Prof. dr. A. Stitt

Faculteit der Geneeskunde