

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/31432> holds various files of this Leiden University dissertation

Author: Khairoun, Meriem

Title: Microvascular alterations in transplantation

Issue Date: 2015-01-14

Microvascular alterations in transplantation

Meriem Khairoun

Cover design by: Pepijn Lampe
Printed by: Gildeprint - Enschede
Layout by: Gildeprint - Enschede
ISBN: 978-94-6108-868-0

Microvascular alterations in transplantation
Meriem Khairoun/Department of Nephrology of the Leiden University Medical Center, The Netherlands/Thesis.

© Meriem Khairoun 2015
All rights are reserved. No part of this publication may be reproduced, stored, or transmitted in any form or by any means, without permission of the author.

Printing of this thesis was financially supported by:

Microvascular alterations in transplantation

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof.mr. C.J.J.M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 14 januari 2015
klokke 13.45 uur

door

Meriem Khairoun

geboren te Tanger in 1982

Promotiecommissie

Promotores: Prof. dr. T.J. Rabelink
Prof. dr. A.J. van Zonneveld

Co-promotor: Dr. M.E.J. Reinders

Overige leden: Prof. dr. D. Briscoe (*Harvard Medical School*)
Prof. dr. J.J. Homan van der Heide (*Academisch Medisch Centrum*)
Prof. dr. V.W.M. van Hinsberg (*VU Medisch Centrum*)
Prof. dr. F.W. Dekker
Prof. dr. J.W. de Fijter
Prof. dr. C. van Kooten

Financial support by the Dutch Heart Foundation for the publication of this thesis is gratefully acknowledged.

For my parents, Safiye and Gürbey

Contents

Chapter 1:	General introduction	9
Chapter 2:	Renal ischemia-reperfusion induces a dysbalance of angiopoietins, accompanied by proliferation of pericytes and fibrosis. <i>Am J Physiol Renal Physiol.</i> 2013 Sep 15;305(6):F901-10	25
Chapter 3:	Renal ischemia-reperfusion induces release of angiopoietin-2 from human grafts of living and deceased donors. <i>Transplantation.</i> 2013 Aug 15;96(3):282-9	45
Chapter 4:	Early systemic microvascular damage in pigs with atherogenic diabetes mellitus coincides with renal angiopoietin dysbalance. <i>Submitted</i>	65
Chapter 5:	Microvascular damage in type 1 diabetic patients is reversed in the first year after simultaneous pancreas-kidney transplantation. <i>Am J Transplant.</i> 2013 May;13(5):1272-81	87
Chapter 6:	Improvement of microvascular damage after living donor kidney-transplantation. <i>In preparation</i>	105
Chapter 7:	Acute rejection of kidney transplants is associated with a dysbalance in angiopoietins and a sustained increase in systemic microvascular tortuosity. <i>Submitted</i>	119
Chapter 8:	General summary and future perspectives	135
Chapter 9:	Nederlandse samenvatting	143
	Acknowledgment	147
	Curriculum vitae	149
	Publication list	151

