



Universiteit  
Leiden  
The Netherlands

## Modulated rat dendritic cells in renal transplantation models : immune regulation and graft outcome

Stax, A.M.

### Citation

Stax, A. M. (2008, December 16). *Modulated rat dendritic cells in renal transplantation models : immune regulation and graft outcome*. Retrieved from <https://hdl.handle.net/1887/13395>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/13395>

**Note:** To cite this publication please use the final published version (if applicable).

# **Modulated rat dendritic cells in renal transplantation models**

**Immune regulation and graft outcome**

Annelein M. Stax



# **Modulated rat dendritic cells in renal transplantation models**

**Immune regulation and graft outcome**

Proefschrift

ter verkrijging van de graad van Doctor aan de Universiteit Leiden,  
op gezag van de Rector Magnificus Prof. mr. P.F. van der Heijden,  
volgens besluit van het College van Promoties  
ter verdediging op 16 december 2008  
klokke 13.45 uur

door  
Annelein Marieke Stax  
geboren te Voorburg in 1976

## **Promotiecommissie**

Promotor	Prof. Dr. M.R.Daha
Co-promotor	Dr. C. van Kooten
Referent	Prof. Dr. R.J.M. ten Berge (AMC, Amsterdam)
Overige leden	Prof. Dr. S. Florquin (AMC, Amsterdam) Dr. L.B. Hilbrands (UMC St. Radboud, Nijmegen) Dr. A.M. Woltman (Erasmus MC, Rotterdam) Dr. I.M. Bajema Prof. Dr. F.H.J. Claas Prof. Dr. J.W. de Fijter Prof. Dr. A.J. Rabelink

The research described in the present thesis was performed at the department of Nephrology of the Leiden University Medical Center. Printing of the thesis was financially supported by the J.E. Jurriaanse stichting, Corning BV and Klinipath BV.

ISBN: 978-90-6464-303-3

Cover: Gijs Hardenberg & Annelein Stax

© 2008 Annelein M. Stax

## Contents

<b>Chapter 1</b>	General Introduction The use of dexamethasone in the induction of tolerogenic DC Partially published in Handbook of Experimental Pharmacology: "Dendritic Cells" 2008 in press	7
<b>Chapter 2</b>	CD40L stimulation of rat dendritic cells specifically favors the IL-12/IL-10 ratio resulting in a strong T cell stimulatory capacity <i>Mol. Immunol.</i> 2008 May;45(9):2641-50	25
<b>Chapter 3</b>	Induction of donor-specific T cell hyporesponsiveness using dexamethasone-treated dendritic cells in two fully mismatched rat kidney transplantation models <i>Transplantation</i> 2008 In press.	43
<b>Chapter 4</b>	Dexamethasone-treated dendritic cells reduce the influx of CD8 <sup>+</sup> T cells, but not of NK and myeloid cells, in a rat renal transplantation model Submitted	61
<b>Chapter 5</b>	Generation and characterization of a novel anti-rat CD40L antibody with inhibitory activities in vitro and in vivo <i>J. Immunol. Methods.</i> 2008 May;45(9):2641-50	81
<b>Chapter 6</b>	Summary and Discussion	95
	Nederlandse Samenvatting	109
	Dankwoord	117
	Publicaties	121
	Curriculum Vitae	125

