



Universiteit
Leiden
The Netherlands

Functional aspects of the adaptive immune system in arthritis

Jansen, D.T.S.L.

Citation

Jansen, D. T. S. L. (2017, March 8). *Functional aspects of the adaptive immune system in arthritis*. Retrieved from <https://hdl.handle.net/1887/47913>

Version: Not Applicable (or Unknown)

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

Downloaded from: <https://hdl.handle.net/1887/47913>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/47913> holds various files of this Leiden University dissertation

Author: Jansen, D.T.S.L.

Title: Functional aspects of the adaptive immune system in arthritis

Issue Date: 2017-03-08

Functional aspects of the adaptive immune system in arthritis

Diahann Talia Satirah Ludovica Jansen

Functional aspects of the adaptive immune system in arthritis

© 2017 Diahann Jansen

ISBN: 978-94-028-0535-2

Layout and Cover design: Diahann Jansen

Printing: Ipskamp Printing

The research described in this thesis is performed at the Department of Rheumatology of the Leiden University Medical Center. The research was financially supported by a NWO-ZonMW Vici grant from the Netherlands Organisation for Scientific Research, the Dutch Arthritis Foundation and the IMI-funded project BeTheCure.

Printing of this thesis was financially supported by Leiden University and ChipSoft.

Functional aspects of the adaptive immune system in arthritis

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 8 maart 2017
klokke 15:00 uur

door

Diahann Talia Satirah Ludovica Jansen

geboren te Rotterdam

in 1986

PROMOTOREN

Prof.dr. R.E.M. Toes

Prof.dr. T.W.J. Huizinga

LEDEN PROMOTIECOMMISSIE

Prof.dr. C. van Kooten

Prof.dr. M.J. Jager

Prof.dr. A.M.H. Boots (UMCG/Universiteit Groningen)

Dr. J.H.W. Leusen (UMCU/Universiteit Utrecht)

TABLE OF CONTENTS

Chapter 1	General introduction	7
Part I	A molecular basis for the HLA-RA association	
Chapter 2	Crossreactivity to vinculin and microbes provides a molecular basis for HLA-based protection against rheumatoid arthritis <i>Nat Commun. 2015 May 5;6:6681</i>	25
Part II	The working mechanism of the biological Abatacept	
Chapter 3	Abatacept decreases disease activity in the absence of CD4+ T cells in the collagen induced arthritis model <i>Arthritis Res Ther. 2015 Aug 20;17:220</i>	71
Chapter 4	Conversion to seronegative status after abatacept treatment in patients with early and poor prognostic rheumatoid arthritis is associated with better radiographic outcomes and sustained remission	89
Part III	Cytokine producing CD4+ T cells in disease and health	
Chapter 5	IL-17-producing CD4+ T cells are increased in early, active axial spondyloarthritis including patients without imaging abnormalities <i>Rheumatology (Oxford). 2015 Apr;54(4):728-35</i>	109
Chapter 6	Interleukin 27 is expressed by CD4+ T cells	123
Chapter 7	Summarizing discussion	135
Addendum	Nederlandse samenvatting	151
	Curriculum vitae	157
	List of publications	159
	Dankwoord	161

