



Universiteit
Leiden
The Netherlands

Targeting autoimmunity in renal diseases: focus on neutrophil extracellular traps and autoreactive B-cells

Dam, L.S. van

Citation

Dam, L. S. van. (2022, February 22). *Targeting autoimmunity in renal diseases: focus on neutrophil extracellular traps and autoreactive B-cells*. Retrieved from <https://hdl.handle.net/1887/3275833>

Version: 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/1887/3275833>

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

TARGETING AUTOIMMUNITY IN RENAL DISEASES

Focus on Neutrophil Extracellular
Traps and Autoreactive B-cells

Laura Sophie van Dam

ISBN	978-94-6416-934-8
Cover design and layout	© evelienjagtman.com
Printed by	Ridderprint
Copyright	© 2022 by Laura Sophie van Dam

All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means, without permission of the copyright owners.

The research described in this thesis was performed with financial support from FOREUM (consortium for SLE); the Dutch Kidney Foundation (KJPB12.028 &17OKGo4) and a Clinical Fellowship from the Netherlands Organization for Scientific Research (90713460).

The printing of this thesis was financially supported by: Stichting NVLE fonds and Vasculitis Stichting.

TARGETING AUTOIMMUNITY IN RENAL DISEASES

Focus on Neutrophil Extracellular
Traps and Autoreactive B-cells

PROEFSCHRIFT

ter verkrijging van
de graad van doctor aan de Universiteit Leiden
op gezag van rector magnificus prof. dr. Ir. H. Bijl
volgens besluit van het college voor promoties
te verdedigen op dinsdag 22 februari 2022
klokke 16:15 uur

door

Laura Sophie van Dam
geboren te Eindhoven in 1989

Promotores

Prof. dr. C. van Kooten
Prof. dr. T.J. Rabelink

Co-promotor

dr. Y.K.O. Teng

Promotiecommissie

Prof. Dr. J.J.M. van Dongen
dr. D. van der Woude
Prof. Dr. S. Florquin
Prof. Dr. P. Heeringa, Universitair Medisch Centrum Groningen
dr. P. van Paassen, Maastricht Universitair Medisch Centrum

TABLE OF CONTENTS

Chapter 1	General introduction and outline	7
Chapter 2	Clinical implications of excessive neutrophil extracellular trap formation in renal autoimmune diseases <i>Kidney International Reports</i> 2019	23
Chapter 3	A high-throughput assay to assess and quantify neutrophil extracellular trap formation <i>Journal of Visualized Experiments</i> 2019	61
Chapter 4	Intrinsically distinct role of neutrophil extracellular trap formation in antineutrophil cytoplasmic antibody-associated vasculitis compared to systemic lupus erythematosus <i>Arthritis and Rheumatology</i> 2019	77
Chapter 5	A reverse translational study on the effect of rituximab, rituximab plus belimumab or bortezomib on the humoral autoimmune response in SLE <i>Rheumatology</i> 2020	103
Chapter 6	PR3-ANCA predict relapses in ANCA-associated vasculitis patients after rituximab <i>Nephrology Dialysis Transplantation</i> 2020	127
Chapter 7	Highly sensitive flow cytometric detection of residual B-cells after rituximab in antineutrophil cytoplasmic antibody-associated vasculitis patients <i>Frontiers in Immunology</i> 2020	151
Chapter 8	Summary and discussion	177
Chapter 9	Appendices	
	A Nederlandse samenvatting	199
	B Curriculum vitae	207
	C List of publications	211
	D Congress presentations and prizes	217
	E Dankwoord	223

