



Universiteit
Leiden
The Netherlands

Imaging the (un)imaginable of the Barrier Immune system

Guo, N.

Citation

Guo, N. (2023, April 18). *Imaging the (un)imaginable of the Barrier Immune system*. Retrieved from <https://hdl.handle.net/1887/3594146>

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/1887/3594146>

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

Imaging the (un)imaginable of the Barrier Immune System

Nannan Guo

© Nannan Guo, Leiden, the Netherlands

Imaging the (un)imaginable of the Barrier Immune System

All rights reserved. No part of this thesis may be reproduced or transmitted in any form, by any means, electronic or mechanical without prior written permission of the author.

The work presented in this thesis was performed at the Department of Immunology of the Leiden University Medical Center in the Netherlands.

ISBN: 978-94-6419-748-8

Cover design by: Nannan Guo and Mette Schreurs

Layout by: Nannan Guo

Printed by: Gildeprint Drukkerijen

Financial support for the publication of this thesis was kindly provided by Standard Biotools.

Imaging the (un)imaginable of the Barrier Immune System

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 18 april 2023
klokke 13:45 uur

door

Nannan Guo

geboren te Changchun, Jilin, China
in 1992

Promotor: Prof. Dr. F. Koning

Co-promotor: Dr. M. F. Pascutti
Dr. K. D. Quint

Leden Promotiecommisie: Prof. Dr. F. A. Ossendorp
Prof. Dr. M. Yazdanbakhsh
Prof. Dr. R.E. Mebius (Amsterdam UMC)
Prof. Dr. M.R. van Dijk (UMC Utrecht)

Table of Contents

Chapter 1	General Introduction	7
Chapter 2	A 34-marker panel for Imaging Mass Cytometric analysis of human snap-frozen tissue <i>Frontiers in Immunology</i> 2020, 11:1466.	23
Chapter 3	Immune subset-committed proliferating cells populate the human foetal intestine throughout the second trimester of gestation <i>Nature Communications</i> 2023, 10;14(1):1318.	47
Chapter 4	Mass Cytometric Analysis of Early-Stage Mycosis Fungoides <i>Cells</i> 2022, 11(7), 1062.	93
Chapter 5	Immune Profiling of Psoriasis by Imaging Mass Cytometry <i>In preparation</i>	137
Chapter 6	Summarizing discussion	159
Appendices	English summary Nederlandse samenvatting Curriculum vitae List of publications Acknowledgements	173

