



Universiteit  
Leiden  
The Netherlands

## **Mechanisms of melanoma-targeting antibody therapy in mice**

Benonisson, H.

### **Citation**

Benonisson, H. (2019, November 19). *Mechanisms of melanoma-targeting antibody therapy in mice*. Retrieved from <https://hdl.handle.net/1887/80688>

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/1887/80688>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/80688> holds various files of this Leiden University dissertation.

**Author:** Benonisson, H.

**Title:** Mechanisms of melanoma-targeting antibody therapy in mice

**Issue Date:** 2019-11-19

# **Mechanisms of melanoma-targeting antibody therapy in mice**

**Hreinn Benonisson**



## **Mechanisms of melanoma-targeting antibody therapy in mice**

door

Hreinn Benonisson

Hreinn Benonisson

Mechanisms of melanoma-targeting antibody therapy in mice,  
128 pages

PhD Thesis, Universiteit Leiden, Leiden, the Netherlands (2019)

ISBN: 978-90-903-2540

DOI - Chapter 2: [10.4049/jimmunol.1700429](https://doi.org/10.4049/jimmunol.1700429)

DOI - Chapter 3: [10.18632/oncotarget.25630](https://doi.org/10.18632/oncotarget.25630)

DOI - Chapter 4: [10.4049/jimmunol.1800700](https://doi.org/10.4049/jimmunol.1800700)

DOI - Chapter 5: [10.1158/1535-7163.MCT-18-0679](https://doi.org/10.1158/1535-7163.MCT-18-0679)

# **Mechanisms of melanoma-targeting antibody therapy in mice**

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  
dinsdag 19 november 2019 klokke 13:45 uur

door

Hreinn Benonisson  
geboren Reykjavik 1986

**Promotor**

Prof. dr. ir. S.M. van der Maarel

**Co-promotores:**

Dr. J. S. Verbeek

Dr. T. van Hall

**Leden promotiecommissie**

Prof. Dr. P. Devilee

Prof. Dr. M.J. Jager

Prof. Dr. M. van Egmond  
(Vrije Universiteit Amsterdam, Amsterdam)

Dr. D. Zaiss  
(University of Edinburgh, Edinburgh)

The research described in this thesis was performed at the Department of Human Genetics, the Department of Medical Oncology and the Department of Immunohematology and Bloodtransfusion of the Leiden University Medical Center, Leiden, The Netherlands and was supported by funding from the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme FP7/2007-2013 under Grant Agreement 317445





## Table of contents

Chapter 1:	General Introduction	7
Chapter 2:	A Restricted Role for FcγR in the Regulation of Adaptive Immunity	25
Chapter 3:	FcγRI expression on macrophages is required for antibody-mediated tumor protection by cytomegalovirus-based vaccines.	45
Chapter 4:	High FcγR Expression on Intratumoral Macrophages Enhances Tumor-Targeting Antibody Therapy.	63
Chapter 5:	CD3-Bispecific Antibody Therapy Turns Solid Tumors into Inflammatory Sites but Does Not Install Protective Memory.	79
Chapter 6:	General discussion	101
Chapter 7:	Nederlandse samenvatting	119
	Summary	120
	Curriculum vitae	123
	Acknowledgements	125
	List of publications	127