



Universiteit
Leiden
The Netherlands

Innate immune signalling of the zebrafish embryo

Stockhammer, O.W.

Citation

Stockhammer, O. W. (2010, May 19). *Innate immune signalling of the zebrafish embryo*. Retrieved from <https://hdl.handle.net/1887/15512>

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/1887/15512>

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

Innate immune signalling of the zebrafish embryo

Oliver W. Stockhammer

ISBN: 9789-08-5705-19-2

Printed by Wöhrmann Print Service, Zutphen

Innate immune signalling of the zebrafish embryo

Proefschrift
ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus prof. mr. P.F. van der Heijden,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 19 mei 2010
klokke 13.45 uur

door

Oliver W. Stockhammer
geboren te Stuttgart, Duitsland
in 1974

Promotiecommissie:

Promotor: Prof. dr. H.P. Spaink

Co-Promotor: Dr. A.H. Meijer

Overige leden: Prof. dr. P.J.J. Hooykaas

Prof. dr. J. den Hertog

Prof. dr. A.J. Durston

Dr. S.A. Renshaw (University of Sheffield)

The publication of this thesis was sponsored by ZF-screens B.V.

“A day without laughter is a day wasted”

Charlie Chaplin

Für Linda, Noah & Senne

Contents

Chapter 1	Introduction to the vertebrate innate immune system	9
Chapter 2	MyD88 innate immune function in a zebrafish embryo infection model	27
Chapter 3	Transcriptome profiling and functional analyses of the zebrafish embryonic innate immune response to Salmonella infection	41
Chapter 4	Transcriptome analysis of Traf6 function in the innate immune response of zebrafish embryos	75
Chapter 5	Transcriptome analysis of Traf6 function in early zebrafish embryogenesis	99
Chapter 6	Summary and discussion	121
Samenvatting		129
List of publications		135
Curriculum vitae		137

