



## Thesis outline

### Chapter 1

p9-30

General introduction and scope of the thesis

Partly adapted from:

ABC drug transporters and immunity: novel therapeutic targets in autoimmunity and cancer. (review)  
R. van de Ven, R. Oerlemans, J.W. van der Heijden, G.L. Scheffer, T.D. de Gruijl, G. Jansen and R.J. Scheper.

*Submitted*

### Chapter 2

p31-40

Dendritic cells require Multidrug resistance protein 1 (ABCC1) transporter activity for differentiation.  
R. van de Ven, M.C. de Jong, A.W. Reurs, A.J.N. Schoonderwoerd, G. Jansen, J.H. Hooijberg, G.L. Scheffer, T.D. de Gruijl and R.J. Scheper.

*The Journal of Immunology, 2006, 176: 5191-5198.*

### Chapter 3

p41-56

The Breast Cancer Resistance Protein (BCRP; ABCG2) promotes Langerhans cell differentiation from CD34<sup>+</sup> progenitor cells.

R. van de Ven, J.J. Lindenberg, A.W. Reurs, H. van Crujisen, R.J. Scheper, G.L. Scheffer and T.D. de Gruijl.

*To be submitted*

### Chapter 4

p57-70

Exposure of CD34<sup>+</sup> precursors to cytostatic anthraquinone-derivatives induces rapid Dendritic Cell differentiation.

R. van de Ven, A.W. Reurs, P.G.J.T.B. Wijnands, S. van Wetering, A.M. Kruisbeek, E. Hooijberg, G.L. Scheffer, R.J. Scheper and T.D. de Gruijl.

*Submitted*

### Chapter 5

p71-80

Long-term doxorubicin exposure interferes with the differentiation of Langerhans Cells from CD34<sup>+</sup> precursor cells.

R. van de Ven, A.W. Reurs, H.J. Bontkes, E. Hooijberg, R.J. Scheper, G.L. Scheffer and T.D. de Gruijl.

*Submitted*

### Chapter 6

p81-88

A role for Multidrug Resistance Protein 4 (MRP4; ABCC4) in human Dendritic Cell migration.

R. van de Ven, G.L. Scheffer, A.W. Reurs, J.J. Lindenberg, R. Oerlemans, G. Jansen, J.P. Gillet, J.N. Glasgow, A. Pereboev, D.T. Curiel, R.J. Scheper and T.D. de Gruijl.

*Blood, 2008, 112: 2353-2359.*

**Chapter 7****p89-100**

Unimpaired immune functions in the absence of Mrp4 (Abcc4).

R. van de Ven, J. de Groot, A. W. Reurs, P.G.J.T.B. Wijnands, K. van de Wetering, J.D. Schuetz, T.D. de Gruijl, R.J. Scheper and G.L. Scheffer.

*Submitted*

**Chapter 8****p101-116**

Selective transduction of mature DC in human skin and lymph nodes by CD80/CD86-targeted fiber-modified Adenovirus-5/3

R. van de Ven, J.J. Lindenberg, D. Oosterhoff, M.P. van den Tol, R.A. Rosalia, M. Murakami, M. Everts, G.L. Scheffer, R.J. Scheper, T.D. de Gruijl and D.T. Curiel

*Submitted*

**Chapter 9****p117-128**

Discussion

Adapted from:

The ABC of DC development and function! (review)

R. van de Ven, G.L. Scheffer, R.J. Scheper and T.D. de Gruijl.

*Submitted*

**Chapter 10****p129-138**

Summary

Nederlandse samenvatting (Dutch summary)

**Chapter 11****p139-145**

Curriculum Vitae

Publication list

Dankwoord

