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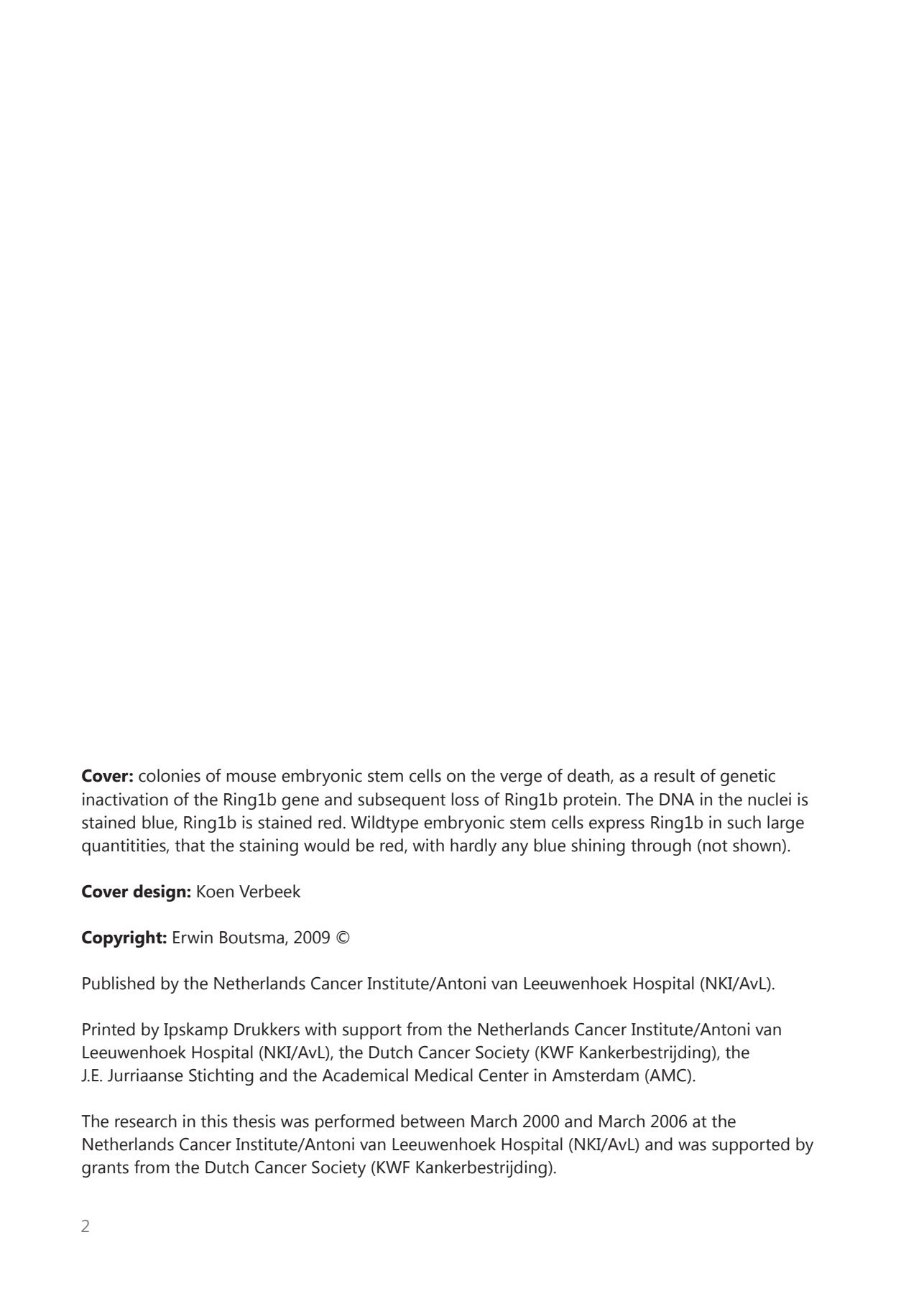
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# **Ring1b: Translational Control and Knockout Phenotypes of a Pcg Core Protein**



**Cover:** colonies of mouse embryonic stem cells on the verge of death, as a result of genetic inactivation of the Ring1b gene and subsequent loss of Ring1b protein. The DNA in the nuclei is stained blue, Ring1b is stained red. Wildtype embryonic stem cells express Ring1b in such large quantities, that the staining would be red, with hardly any blue shining through (not shown).

**Cover design:** Koen Verbeek

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# **Ring1b: Translational Control and Knockout Phenotypes of a Pcg Core Protein**

## **Academisch Proefschrift**

ter verkrijging van de graad van doctor  
aan de Universiteit van Amsterdam  
op gezag van de Rector Magnificus  
prof.dr. D.C. van den Boom  
ten overstaan van een door het college voor promoties  
ingestelde commissie,  
in het openbaar te verdedigen in de Agnietenkapel  
op donderdag 2 juli 2009, te 14.00 uur  
door

**Erwin Alexander Boutsma**

geboren te Zaanstad

## **Promotiecommissie**

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Prof.dr. J.P. Medema  
Prof.dr. D.S. Peeper  
Prof.dr. H.P.J. te Riele  
Prof.dr. J.J. Neefjes

## **Faculteit der Geneeskunde**

*Voor Laura*

Nature, properly understood in a scientific way, is deeply beautiful and unfailingly interesting.  
It's worth putting in some honest effort to understand it properly.

*Richard Dawkins, 'A Devil's Chaplain'*