

VU Research Portal

Applied bioinformatics: Genomics of human and murine retinoblastoma

Kooi, E.I.

2017

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Kooi, E. I. (2017). *Applied bioinformatics: Genomics of human and murine retinoblastoma*. Ipskamp Drukkers B.V.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

Contents

9 General introduction

Clinical description, genetics, tumor progression, aim and outline

29 Loss of photoreceptoriness and gain of genomic alterations in retinoblastoma reveal tumor progression

gene expression, subtyping, etiology, photoreceptoriness, progression

59 A meta-analysis of retinoblastoma copy numbers refines the list of possible driver genes involved in tumor progression

DNA copy number, gene expression, integration, tumor driver identification, cell lines

85 Somatic genomic alterations in retinoblastoma beyond *RB1* are rare and limited to copy number changes

Whole-exome sequencing, DNA copy number, genomic landscape, within-tumor heterogeneity

111 Genomic landscape of retinoblastoma in *Rb*^{-/-}*p130*^{-/-} mice resembles human retinoblastoma

Retinoblastoma mouse model, DNA copy number, comparative oncogenomics, driver gene identification

131 Summary, discussion and future perspectives

key findings, data interpretation, prospective studies, epigenetics, cancer genomics recommendations

153 Summary in Dutch

Nederlandse samenvatting

159 Addendum

List of publications, curriculum vitae, acknowledgements