

VU Research Portal

Molecular mechanisms of bortezomib resistance in acute leukemia

Franke, N.E.

2017

document version

Publisher's PDF, also known as Version of record

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

citation for published version (APA)

Franke, N. E. (2017). *Molecular mechanisms of bortezomib resistance in acute leukemia*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

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

TABLE OF CONTENTS

Chapter 1	General introduction	9
Chapter 2	Proteasome inhibitors in leukemia <i>Adapted from: Proteasome and protease inhibitors. In Kaspers et al.: Innovative Leukemia and Lymphoma Therapy 2007</i>	35
Chapter 3	Higher ratio immune vs. constitutive proteasome level as novel indicator of sensitivity of pediatric acute leukemia cells to proteasome inhibitors. <i>Haematologica. 2013 98(12):1896-904.</i>	65
Chapter 4	Molecular basis of bortezomib resistance: Proteasome subunit $\beta 5$ (PSMB5) gene mutation and overexpression of PSMB5 protein. <i>Blood. 2008 112(6):2489-99.</i>	97
Chapter 5	Impaired bortezomib binding to mutant $\beta 5$ subunit of the proteasome is the underlying basis for bortezomib resistance in leukemia cells. <i>Leukemia. 2012 26(4):757-68.</i>	137
Chapter 6	Exocytosis of polyubiquitinated proteins in bortezomib-resistant leukemia cells: a role for MARCKS in acquired resistance to proteasome inhibitors. <i>Oncotarget. 2016 Nov 15;7(46):74779-74796.</i>	167
Chapter 7	Summary, general discussion and future perspectives	205
Appendix	Nederlandse samenvatting	239
	List of publications	243
	About the author	245
	Dankwoord	247