

# VU Research Portal

## MicroRNAs in HPV-induced cervical cancer

Babion, I.

2020

### **document version**

Publisher's PDF, also known as Version of record

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

### **citation for published version (APA)**

Babion, I. (2020). *MicroRNAs in HPV-induced cervical cancer: Triage markers for cervical screening and drivers of carcinogenesis*.

### **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](mailto:vuresearchportal.ub@vu.nl)

# TABLE OF CONTENT

Chapter 1	General Introduction	9
<hr/>		
<b>PART I MiRNAs as Triage Markers in HPV-Based Cervical Screening</b>		<b>39</b>
Chapter 2	A Strategy to Find Suitable Reference Genes for miRNA Quantitative PCR Analysis and its Application to Cervical Specimens	41
Chapter 3	Triage of High-Risk HPV-Positive Women in Population-Based Screening by miRNA Expression Analysis in Cervical Scrapes; a Feasibility Study	75
Chapter 4	Genome-Wide miRNA Analysis of HPV-Positive Self-Samples Yields Novel Triage Markers for Early Detection of Cervical Cancer	99
Chapter 5	Complementarity between miRNA Expression Analysis and DNA Methylation Analysis in hrHPV-Positive Cervical Scrapes for the Detection of Cervical Disease	121
<hr/>		
<b>PART II MiRNAs and Other Molecular Changes as Drivers of HPV-Induced Transformation</b>		<b>139</b>
Chapter 6	Identification of Deregulated Pathways, Key Regulators, and Novel miRNA-mRNA Interactions in HPV-Mediated Transformation	141

Chapter 7	MiR-9-5p Exerts a Dual Role in Cervical Cancer and Targets Transcription Factor TWIST1	171
Chapter 8	Altered miRNA-Processing Proteins in HPV-Induced Cancers	197
Chapter 9	Summary, Discussion, and Future Perspectives	217
<hr/>		
	<b>ADDENDUM</b>	235
Chapter 10	Nederlandse Samenvatting	237
Chapter 11	Deutsche Zusammenfassung	245
Chapter 12	List of Publications	256
	Affiliations of Co-Authors	258
	About the Author	260
Chapter 13	Dankwoord, Acknowledgment, Danksagung	263