## **TABLE OF CONTENT**

Chapter 1	General Introduction	11
Chapter 2	The curious case of Merkel cell carcinoma: epigenetic youth and lack of pluripotency	39
Chapter 3	Neuroendocrine key regulator gene expression in Merkel cell carcinoma	59
Chapter 4	Reviewing the current evidence supporting early B-cells as the cellular origin of Merkel cell carcinoma	91
Chapter 5	Decoding of PAX5 expression and its transcriptional network program in Merkel cell carcinoma	115
Chapter 6	Phosphatidylinositol 3-kinase p110δ expression in Merkel cell carcinoma	177
Chapter 7A	Navitoclax combined with Alpelisib effectively inhibits Merkel cell carcinoma cell growth in vitro	199
Chapter 7B	Navitoclax combined with chemotherapeutics is less effective in Merkel cell carcinoma cell growth inhibition in vitro	231
Chapter 8	General discussion	245
Addendum	Summary/ Samenvatting/ Zusammenfassung Valorization List of abbreviations Curriculum vitae & list of publications Acknowledgments/ Dankwoord/ Danksagung Eidesstattliche Erklärung	269 283 289 295 305 317