

## **Contents**

<i>Chapter 1</i>	9
General introduction	
<i>Chapter 2</i>	49
SLX4, a coordinator of structure-specific endonucleases, is mutated in a new Fanconi anemia subtype	
<i>Chapter 3</i>	73
Whole exome sequencing reveals uncommon mutations in the recently identified Fanconi anemia gene <i>SLX4/FANCP</i>	
<i>Chapter 4</i>	85
Mutations in <i>ERCC4</i> , encoding the DNA-repair endonuclease XPF, cause Fanconi anemia	
<i>Chapter 5</i>	105
Defects in the Fanconi anemia pathway and chromatid cohesion in head and neck cancer	
<i>Chapter 6</i>	133
DNA helicases FANCM and DDX11 are determinants of PARP inhibitor sensitivity	
<i>Chapter 7</i>	159
Synthetic lethal interactions with FA deficiency identified by genetic screens in head and neck cancer cell lines	
<i>Chapter 8</i>	187
Discussion	
<i>Summary</i>	195
<i>Nederlandse samenvatting</i>	201
<i>Addendum</i>	207
Curriculum Vitae	
Dankwoord/Acknowledgements	