# Contents

1 Background ................................................................. 1

2 High-Throughput Sequencing of the Paired Human Immunoglobulin Heavy and Light Chain Repertoire ............... 21

3 In-Depth Determination and Analysis of the Human Paired Heavy and Light Chain Antibody Repertoire ............. 29

4 Paired VH:VL Analysis of Naïve B Cell Repertoires and Comparison to Antigen-Experienced B Cell Repertoires in Healthy Human Donors ........................................... 41

5 Conclusions and Future Perspectives ................................. 59

Appendix A: Chapter 2 Supplementary Information ................. 65

Appendix B: Chapter 3 Supplementary Information ................. 73

Appendix C: Chapter 4 Supplementary Information ................. 81

Index ................................................................................. 87
Decoding the Antibody Repertoire
High Throughput Sequencing of Multiple Transcripts from Single B Cells
DeKosky, B.
2017, XXVIII, 87 p. 34 illus., Hardcover
ISBN: 978-3-319-58517-8