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author -- Chapter 1 General Introduction -- 1 Polyphenols -- 2 Anthocyanins -- 2.3 Physiological properties -- 3 Synthesis of phase II metabolites -- 3.1 Enzymatic synthesis -- 3.2 Chemical synthesis -- 3.3 Microbial synthesis -- 4 Analysis and Characterization of the metabolites -- 4.1 UV/Vis spectra -- 4.2 Mass spectrometry -- 4.3 Purification -- 5 Aims of the thesis -- Chapter 2 Hemisynthesis of Anthocyanin Phase II Metabolites by Porcine Liver Enzymes -- 1 Introduction -- 2 Materials and methods -- 2.1 Chemicals -- 2.2 Isolation of anthocyanins -- 2.3 Preparation of liver fractions -- 2.4 Incubation -- 3 Results and discussion -- 3.1 Methylation -- 3.2 Glucuronidation -- 3.3 Sulfation -- 3.4 Multiple Conversions -- 4 References -- Chapter 3 Chemical Hemisynthesis of Sulfated Cyanidin-3-O-Glucoside and Cyanidin Metabolites -- 1 Introduction -- 2 Results and discussion -- 2.1 Cyanidin Sulfates -- 2.2 Cyanidin-3-O-Glucoside Sulfates -- 2.3 Challenges -- 2.4 Human Pilot Study -- 3 Materials and methods -- 3.1 Chemicals -- 3.2 Hemisynthesis of Sulfated Metabolites -- 3.3 LC-MS-Analysis -- 3.4 Study Design and Analysis of Urine -- 4 Conclusions -- 5 References -- Chapter 4 Methylation of Cyanidin-3-O-Glucoside with Dimethyl Carbonate -- 1 Introduction -- 2 Results and discussion -- 2.1 First Observations -- 2.2 Experimental Design -- 2.3 Increase in Solvation of Anthocyanins -- 2.4 Identification -- 3 Materials and methods -- 3.1 Chemicals -- 3.2 Hemisynthesis -- 3.3 LC-MS Analysis -- 4 Conclusion -- 5 References -- Chapter 5 Concluding remarks -- 1 Impact of contributions -- 2 Remaining challenges and future directions -- 3 References -- Summary -- Zusammenfassung -- Acknowledgement.
