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Nota di contenuto	Intro -- Preliminary Remarks -- List of Abbreviations -- List of Publications -- Conferences -- Declaration of Contribution as Co-Author -- Chapter 1 -- General Introduction -- 1 Flavonoids -- 2 Bioavailability and Bioaccessibility -- 3. Peptidases and Proteolysis -- 4. Method Validation -- 5 Aims of the Thesis -- 6. References -- Chapter 2 -- An Innovative Approach to the Preparation of PlasmaSamples for UHPLCíMS Analysis -- 1 Introduction -- 2 Materials and Methods -- 3 Results and Discussion -- 4 Funding -- 5 References -- Chapter 3 -- Development and Validation of Methods for theDetermination of Anthocyanins in Physiological Fluids viaUHPLCMSn -- 1 Introduction -- 2 Results and Discussion -- 3 Materials and Methods -- 4 Funding -- 5 Acknowledgements -- 6 References -- Chapter 4 -- Concluding Remarks -- 1. Plasma Sample Processing via Enzymatic Proteolysis -- 2. Urine Sample Processing by Concentrating via Evaporation -- 3. References -- Suffix -- Summary -- Zusammenfassung -- Acknowledgement.