

Table of contents

Preface and acknowledgement	4
List of papers	5
Summary	6
Sammenfatning (Danish summary)	8
Abbreviations	10
1 Introduction	11
2 Aim of thesis	12
3 Background	13
The traditional Danish diet	13
National dietary recommendations	14
<i>The Nordic Nutrition Recommendations</i>	14
<i>The Danish Food-based Dietary Guidelines</i>	16
The present Danish diet	17
<i>Dietary components</i>	18
<i>Macronutrients</i>	19
<i>Micronutrients</i>	20
The New Nordic Cuisine	21
The New Nordic Diet	23
<i>OPUS</i>	23
4 Development of a New Nordic Diet	25
Health	26
<i>Definition of health in this context</i>	26
<i>Safety evaluation of selected dietary components in the New Nordic Diet</i>	27
Gastronomic potential and Nordic identity	29
Sustainability	30
Development of meals in the New Nordic Diet	32
5 Paper I – Guidelines for the New Nordic Diet	37
6 Paper II – Dietary composition and nutrient content of the New Nordic Diet	47
7 Paper III - Safety evaluation of some wild plants in the New Nordic Diet	59
8 Paper IV - Discovery of exposure markers in urine for Nordic meals and foods by UPLC-qTOF-MS untargeted metabolomics	69
9 Discussion	89
The Nordic Nutrition Recommendations vs. the New Nordic Diet	90
<i>Fruit, vegetables, potatoes and wholegrain</i>	91
<i>Wild plants and seaweed</i>	95
<i>Protein sources</i>	97
<i>Fatty acid composition</i>	101
Gastronomy and the New Nordic Diet	103
Is the New Nordic Diet sustainable?	106
Validating the New Nordic Diet	112
Final remarks	115
10 Conclusion and perspectives	119
References	123
Appendix	139