Record Nr. UNINA9910462683103321 Food enrichment with omega-3 fatty acids // edited by Charlotte **Titolo** Jacobsen [and three others] Pubbl/distr/stampa Oxford;; Philadelphia:,: Woodhead Publishing Limited,, 2013 **ISBN** 0-85709-886-1 Descrizione fisica 1 online resource (454 p.) Collana Woodhead Publishing series in food science, technology, and nutrition; ; number 252 Altri autori (Persone) **JacobsenCharlotte** Disciplina 612.397 Soggetti Essential fatty acids in human nutrition Food additives Omega-3 fatty acids Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based on print version record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Food enrichment with omega-3 fatty acids; Copyright; Contents; Contributor contact details; Woodhead Publishing Series in Food Science, Technology and Nutrition; Preface; Part I Background to omega-3 food enrichment; 1. Nutritional benefits of omega-3 fatty acids; 1.1 Introduction; 1.2 Dietary sources and typical intakes of omega-3 fatty acids; 1.3 Marine omega-3 fatty acids; 1.4 Health effects of a-linolenic acid; 1.5 Future trends; 1.6 Conclusion; 1.7 Sources of further information and advice; 1.8 References; 1.9 Appendix: abbreviations: 2. Sources of omega-3 fatty acids 2.1 Introduction 2.2 Background; 2.3 Marine oils in perspective; 2.4 Current and alternative marine oils; 2.5 Krill and single-cell marine oils; 2.6 Wild fish and other marine oils; 2.7 Species farmed for marine oils; 2.8 Sustainability and certifications; 2.9 Plant sources; 2.10 Conclusion and future trends; 2.11 References; Part II Stabilisation of fish oil and foods enriched with omega-3 fatty acids: 3. Impact of extraction. refining and concentration stages on the stability of fish oil; 3.1 Introduction; 3.2 Methods for the extraction, refining and concentration of fish oil 3.3 Impact of extraction, refining and concentration stages on oil

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## Sommario/riassunto

Omega-3 fatty acids provide many health benefits, from reducing cardiovascular disease to improving mental health, and consumer interest in foods enriched with omega-3 fatty acids is increasing. Formulating a product enriched with these fatty acids that is stable and has an acceptable flavour is challenging. Food enrichment with omega-3 fatty acids provides an overview of key topics in this area.Part one, an introductory section, reviews sources of omega-3 fatty acids and their health benefits. Chapters in part two explore the stabilisation of both fish oil itself and foods enriched wi