

1. Record Nr.	UNINA9910823774703321
Titolo	Bitterness : perception, chemistry and food processing / / edited by Michel Aliani & Michel N. A. Eskin
Pubbl/distr/stampa	Hoboken, New Jersey : , : IFT Press : , : Wiley Blackwell, , 2017 ©2017
ISBN	1-118-59031-7 1-118-59023-6 1-118-59026-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (280 pages) : illustrations, tables
Collana	Institute of food technologists series THEi Wiley ebooks
Classificazione	TEC012000
Disciplina	664.07
Soggetti	Bitterness (Taste)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Sommario/riassunto	"Bitterness is one of the most interesting and least studied/understood of all the human tastes. It produces aversive reactions because it was originally associated with the plant source being poisonous. In fact, it was considered a defence mechanism for avoiding the ingestion of such harmful substances so that early human survival was based on the knowledge and ability to discriminate between edible plants particularly those with potentially harmful effects. With the advent of modern technology our understanding of bitterness is far more sophisticated and that we now know that not all bitter compounds are poisonous. In fact there are many foods in which bitterness is quite acceptable such as in some cheeses and beverages. In this book we have attempted to provide a comprehensive review of bitterness, from the novel genes in humans responsible for the expression of bitterness to methods used to remove or reduce bitterness in functional foods and nutraceuticals. The book is organized into five sections. The first section covers the biology of bitterness perception with Chapter 1 discussing the biochemistry of the 25 human bitter taste receptors of the TAS2R gene

family. Chapter 2 examines the physiological aspects of bitterness while Chapter 3 discusses human bitterness from an evolutionary perspective"-- Provided by publisher.
