Record Nr. UNISA996214682603316 Autore Bower John A., MSc. Titolo Statistical methods for food science [[electronic resource]]: introductory procedures for the food practitioner / / by John A. Bower Oxford, UK; Ames, Iowa, Blackwell Pub., 2009 Pubbl/distr/stampa **ISBN** 1-282-38006-0 9786612380068 1-4443-2094-7 1-4443-2095-5 Edizione [1st ed.] Descrizione fisica 1 online resource (321 p.) 641.3 Disciplina 664.0072 664/.0072 Soggetti Food - Research - Statistical methods Nutrition - Research - Statistical methods Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Statistical Methods for Food Science; Contents; Preface; Acknowledgements: Part I Introduction and basics: Chapter 1 Basics and terminology; 1.1 Introduction; 1.2 What the book will cover; 1.3 The importance of statistics; 1.4 Applications of statistical procedures in food science; 1.5 Focus and terminology; References; Software sources and links; Chapter 2 The nature of data and their collection; 2.1 Introduction; 2.2 The nature of data and their collection; 2.3 Collection of data and sampling; 2.4 Populations; References; Chapter 3 Descriptive statistics; 3.1 Introduction 3.2 Tabular and graphical displays 3.3 Descriptive statistic measures; 3.4 Measurement uncertainty; 3.5 Determination of population nature and variance homogeneity; References; Chapter 4 Analysis of differences - significance testing; 4.1 Introduction; 4.2 Significance (hypothesis) testing; 4.3 Assumptions of significance tests; 4.4 Stages in a significance test; 4.5 Selection of significance tests; 4.6 Parametric

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## Sommario/riassunto

The recording and analysis of food data are becoming increasingly sophisticated. Consequently, the food scientist in industry or at study faces the task of using and understanding statistical methods. Statistics is often viewed as a difficult subject and is often avoided because of its complexity and a lack of specific application to the requirements of food science. This situation is changing - there is now much material on multivariate applications for the more advanced reader, but a case exists for a univariate approach aimed at the non-statistician. This book provides a source