

Contents

- Lists of Contributors, vii
- Preface, xi
- List of Abbreviations, xiii
- 1** Olfactory system in mammals: structural and functional anatomy, 1
Anne-Marie Le Bon, Frédérique Datiche, Jean Gascuel & Xavier Grosmaitre
- 2** Odorant metabolizing enzymes in the peripheral olfactory process, 34
Jean-Marie Heydel, Hassan-Ismail Hanser, Philippe Faure & Fabrice Neiers
- 3** The vertebrate gustatory system, 57
Maik Behrens & Wolfgang Meyerhof
- 4** Bioadhesion and oral fluids—perireceptor modulators of taste perception? 79
Christian Hannig, Matthias Hannig & Martine Morzel
- 5** Basic physiology of the intranasal trigeminal system, 109
Florence Gingras-Lessard & Johannes Frasnelli
- 6** Characterization of aroma compounds: structure, physico-chemical and sensory properties, 126
Henryk Jeleń & Anna Gracka
- 7** Characterization of taste compounds: chemical structures and sensory properties, 154
Anni Laffitte, Fabrice Neiers & Loïc Briand
- 8** Sensory characterization of compounds with a trigeminal effect for taste modulation purposes, 192
Isabelle Cayeux & Christian Starkenmann
- 9** Interactions between aroma compounds and food matrix, 208
Laurianne Paravisini & Elisabeth Guichard
- 10** Aroma release during in-mouth process, 235
Andrea Romano
- 11** Release of tastants during in-mouth processing, 266
Christian Salles
- 12** Interactions between saliva and flavour compounds, 284
Francis Canon & Eric Neyraud
- 13** Orthonasal and retronasal perception, 310
Thomas Hummel & Han-Seok Seo

- 14** Perception of mixtures of odorants and tastants: sensory and analytical points of view, 319

Thierry Thomas-Danguin, Carmen Barba, Christian Salles et Elisabeth Guichard

- 15** Odour mixture coding from the neuronal point of view, 341

Patricia Duchamp-Viret

- 16** Multisensory flavour perception, 373

Charles Spence

Index, 395