Contents

Part 1 Microbial physiology and the development of cheese flavour

- Carbohydrate metabolism and cheese flavour development
- Amino acid metabolism in relationship to cheese flavour development
- Lipolysis and cheese flavour development
- The relative contributions of starter cultures and non-starter bacteria to the flavour of cheese
- Starter culture development for improved cheese flavour
- Adjunct culture metabolism and cheese flavour
- Techniques for microbial species identification and characterization to identify commercially important traits
- Genomics and cheese flavour

Part 2 Influence of ingredients, processing and physical and chemical factors on cheese flavour

- The effects of milk, its ingredients and salt on cheese flavour
- Physical factors affecting the flavour of cheese
- Flavourant-matrix interactions and flavour development in cheese
- Starter culture production and delivery for cheese flavour
- Bacteriocins: changes in cheese and flora flavour

Part 3 Monitoring and evaluating cheese flavour

- Monitoring cheese ripening: new developments
- Defining cheese flavour
- Measuring cheese flavour
- Hard Italian cheeses: parmigiano-reggiano and grana-padano
- Low temperature hard cheeses and semi-hard washed cheeses
- Soft-ripened and fresh cheeses: feta, quark, halloumi and related varieties
- Producing low-fat cheeses
- Modelling gouda ripening to predict flavour development