

Contents

	Contributors	vii
	Series Foreword	ix
	Preface	x
	First Edition Acknowledgments	xi
	Dedication	xiii
1	Core Concepts of Nutrition <i>Ian A Macdonald and Michael J Gibney</i>	1
2	Molecular Aspects of Nutrition <i>Helen M Roche, Herman E Popeijus and Ronald P Mensink</i>	7
3	Integration of Metabolism 1: Energy <i>Xavier M Lerverve</i>	35
4	Integration of Metabolism 2: Macronutrients <i>Keith N Frayn and Abayomi O Akanji</i>	49
5	Integration of Metabolism 3: Protein and Amino Acids <i>Margaret E Brosnan, John T Brosnan and Vernon R Young</i> <i>With grateful appreciation to the outstanding work of Dr Vernon Young formally of MIT, USA (1937–2004)</i>	72
6	Pregnancy and Lactation <i>Joop MA van Raaij and Lisette CPGM de Groot</i>	102
7	Growth and Ageing <i>Mark L Wahlqvist and Prasong Tienboon</i>	119
8	Nutrition and the Brain <i>John D Fernstrom and Madelyn H Fernstrom</i>	155
9	The Sensory Systems and Food Palatability <i>Conor M Delahunty</i>	184
10	The Gastrointestinal Tract <i>Mariano Mañas, Emilio Martínez de Victoria, Angel Gil, María D Yago and John C Mathers</i>	205
11	The Cardiovascular System <i>Gabriele Riccardi, Angela A Rivellese and Christine M Williams</i>	247
12	The Skeletal System <i>John M Pettifor, Ann Prentice, Kate Ward and Peter Cleaton-Jones</i>	272
13	The Immune and Inflammatory Systems <i>Parveen Yaqoob and Philip C Calder</i>	312

Additional resources are published on the book's website: www.wiley.com/go/nutmet

14	Phytochemicals <i>Aedín Cassidy and Colin D Kay</i>	339
15	The Control of Food Intake <i>Adam Drewnowski and France Bellisle</i>	353
16	Overnutrition <i>Linda Bandini, Albert Flynn and Renee Scampini</i>	360
17	Undernutrition <i>Paul Kelly</i>	378
18	Exercise Performance <i>Asker E Jeukendrup and Louise M Burke</i>	387
	Index	418