

Contents

Authors	.....	7	
Chapter 01	The history of sports nutrition	.....	9
	Bengt Saltin and Asker Jeukendrup		
Chapter 02	What is the optimal composition of an athlete's diet?	.....	14
	Liz Broad and Greg Cox		
Chapter 03	The optimal pre-competition meal	.....	19
	Asker Jeukendrup		
Chapter 04	Carbohydrate intake during exercise	.....	25
	Asker Jeukendrup		
Chapter 05	Hydration: what is new?	.....	31
	Asker Jeukendrup		
Chapter 06	Fat burning	.....	38
	Asker Jeukendrup		
Chapter 07	Nutrition for recovery	.....	48
	Louise Burke		
Chapter 08	Nutrition, Sleep and recovery	.....	54
	Shona Halson		
Chapter 09	Building muscle	.....	62
	Stuart Phillips and Mark Tarnopolsky		
Chapter 10	Train low – compete high	.....	66
	Keith Baar		
Chapter 11	Optimizing training adaptations by manipulating protein	.....	71
	Kevin Tipton		
Chapter 12	Alternative fuels	.....	80
	Asker Jeukendrup		
Chapter 13	Dietary supplements	.....	86
	Hans Braun		
Chapter 14	Risks associated with dietary supplement use	.....	92
	Ronald Maughan		
Chapter 15	Nutrition and immune function	.....	98
	Michael Gleeson		
Chapter 16	Supplements to boost immune function	.....	105
	David Nieman		
Chapter 17	Sports nutrition for women	.....	111
	Brent Ruby		
Chapter 18	Nutrition, the brain and prolonged exercise	.....	117
	Romain Meeusen and Phil Watson		
Chapter 19	Weight management	.....	123
	Asker Jeukendrup		
Chapter 20	Protein and weight loss	.....	129
	Samuel Mettler and Kevin Tipton		

Chapter 21	Nutrition- and exercise-associated gastrointestinal problems .	135
Beate Pfeiffer		
Chapter 22	Marathon running .	140
John Hawley		
Chapter 23	Nutrition for middle distance running .	145
Trent Stellingwerff		
Chapter 24	Swimming .	152
Louise Burke		
Chapter 25	Triathlon .	160
Asker Jeukendrup		
Chapter 26	Adventure racing and ultra marathons .	166
Mark Tarnopolsky		
Chapter 27	Team sports .	173
Stuart Phillips		
Chapter 28	The Future: Individualizing nutrition & hydration .	178
Trent Stellingwerff		
References		185
Photo & Illustration Credits		195