

Contents

1	Nutritional Epigenetics and Aging	1
	Kyong Chol Kim and Sang-Woon Choi	
2	Dietary Restriction, Dietary Design and the Epigenetics of Aging and Longevity.	29
	Craig A. Cooney	
3	Anti-inflammatory Action of Calorie Restriction Underlies the Retardation of Aging and Age-Related Diseases. . .	49
	Dae Hyun Kim, Eun Kyeong Lee, Min Hi Park, Byoung Chul Kim, Ki Wung Chung, Byung Pal Yu and Hae Young Chung	
4	Hormonal Influence and Modulation in Aging	69
	Isao Shimokawa	
5	Epigenetic Modulation of Gene Expression by Exercise	85
	Sataro Goto, Kyojiro Kawakami, Hisashi Naito, Shizuo Katamoto and Zsolt Radak	
6	Metabolic and Antioxidant Adaptation to Exercise: Role of Redox Signaling	101
	Li Li Ji	
7	Sarcopenia and Its Intervention.	127
	Kunihiro Sakuma and Akihiko Yamaguchi	
8	The Role of Functional Foods and Their Bioactive Components in Bone Health	153
	Bahram H. Arjmandi and Sarah A. Johnson	

9	Nutritional Interventions for Cardiovascular Aging and Age-Related Cardiovascular Diseases	179
	Ken Shinmura	
10	Calorie Restriction Mimetics: Progress and Potential	211
	George S. Roth and Donald K. Ingram	
11	History of the Study of Calorie Restriction in Nonhuman Primates Conducted by the National Institute on Aging: The First Decade	245
	Donald K. Ingram, Julie A. Mattison, Rafael de Cabo and George S. Roth	
	Index	277