

Volume 3

Part VII	Genomics	1523
113	Genetic Basis of Healthy Skin Aging	1525
	Anne Lynn S. Chang	
114	Genodermatoses with Premature Aging/Syndromes	1529
	Adele Chedraoui, Abdul Ghani Kibbi, and Mazen Kurban	
115	Resetting Skin Genome Back to Health Naturally with GHK	1549
	Loren Pickart, Jessica Michelle Vasquez-Soltero, and Anna Margolina	
Part VIII	Skin Scales and Typing System	1567
116	Assessing Quality of Ordinal Scales Depicting Skin Aging Severity	1569
	Fabien Valet, Khaled Ezzedine, Denis Malvy, Jean-Yves Mary, and Christiane Guinot	

117	The Baumann Skin Typing System	1579
	Leslie S. Baumann	

Part IX Skin Health, Nutrition, Resilience, Rejuvenation, and Management of Aging Skin **1599**

118	Preventive Skin Care During Skin Aging	1601
	Andrea Lichterfeld, Elisabeth Hahnel, Ulrike Blume-Peytavi, and Jan Kottner	

119	Discovering the Link Between Nutrition and Skin Aging	1613
	Aikaterini I. Liakou, Apostolos Pappas, and Christos C. Zouboulis	

120	Aging Skin: Nourishing from the Inside Out – Effects of Good Versus Poor Nitrogen Intake on Skin Health and Healing	1619
	Giovanni Corsetti, Evasio Pasini, Vincenzo Flati, Claudia Romano, Anna Rufo, and Francesco S. Dioguardi	

121	Aging Skin: Nourishing from Out-In – Lessons from Wound Healing	1631
	Giovanni Corsetti, Vincenzo Flati, Evasio Pasini, Claudia Romano, Anna Rufo, Raimondo Pinna, and Francesco S. Dioguardi	

Part X Psychosocial Implications **1643**

122	Psychological and Social Implications of Aging Skin: Normal Aging and the Effects of Cutaneous Disease	1645
	Miranda A. Farage, Kenneth W. Miller, Enzo Berardesca, and Howard I. Maibach	

123	Aging Skin: Some Psychosomatic Aspects	1657
	Madhulika A. Gupta	

124	Advanced Glycation End Products (AGEs): Emerging Mediators of Skin Aging	1675
	Paraskevi Gkogkolou and Markus Böhm	

Part XI Aging Perception **1687**

125	Facial Skin Attributes and Age Perception	1689
	Alex Nkengne, Georgios N. Stamatas, and Christiane Bertin	

126	The Neuroscience of Age Perception	1701
	Daniel B. Yarosh	

Part XII Gender, Ethnicity, and Lifestyle Differences	1707
127 Determinants in the Rate of Skin Aging: Ethnicity, Gender, and Lifestyle Influences	1709
Miranda A. Farage, Kenneth W. Miller, and Howard I. Maibach	
128 Gender Differences in Skin	1729
Christina Phuong and Howard I. Maibach	
129 Aging in Asian Skin	1757
Low Chai Ling	
Part XIII Sensitive Skin and Aging	1765
130 Perceptions of Sensitive Skin with Age	1767
Miranda A. Farage	
131 Effects of Aging on Skin Reactivity	1793
Michael K. Robinson	
132 Skin Reactivity of the Human Face: Functional Map and Age Related Differences	1801
John Jay P. Cadavona, Slaheddine Marrakchi, and Howard I. Maibach	
Part XIV Ingredients, Products, and Cosmetics for Aging Skin Beauty	1815
133 Aging and Antiaging Strategies	1817
Carmela Rita Balistreri, Giuseppina Candore, Giovanni Scapagnini, and Calogero Caruso	
134 Cosmetics and Aging Skin	1829
Robert L. Bronaugh and Linda M. Katz	
135 Cosmetic Antiaging Ingredients	1839
Donald L. Bissett, Mary B. Johnson, and John Oblong	
136 Topical Growth Factors for Skin Rejuvenation	1853
Frank Dreher	
137 Topical Peptides and Proteins for Aging Skin	1865
Farzam Gorouhi and Howard I. Maibach	
138 Long-Term Estrogen Effects on Sun-Exposed Human Skin	1897
Hyun Sun Yoon and Jin Ho Chung	
139 Solutions and Products for Managing Female Urinary Incontinence	1909
Nancy Karapasha	

140	Therapeutic Alternatives for the Treatment of Epidermal Aging	1917
	Carla Abdo Brohem, Valéria Maria Di Mambro, and Márcio Lorencini	
141	Influence of Aging on Sensorial Perception of Skin Care Products	1929
	Valéria Maria Di Mambro, Carla Abdo Brohem, and Márcio Lorencini	
142	The Role of Neuropeptides in Skin Wound Healing	1937
	Yun-Hee Choi, Sang Hyun Moh, and Ki Woo Kim	
143	Wound Healing as We Age	1949
	Jihane Abou Rahal and Dany Nassar	
144	Antiaging Effects of Algae-Derived Mycosporine-Like Amino Acids (MAAs) on Skin	1959
	Jeong Hun Lee, Hyeong-Sik Kim, Hyo Hyun Seo, Mi Young Song, Atul Kulkarni, Yun-Hee Choi, Ki Woo Kim, and Sang Hyun Moh	
145	Innovative Nutraceutical Approaches to Counteract the Signs of Aging	1967
	Licia Genovese and Sara Sibilla	
146	Neck Rejuvenation with Fractional CO₂ Laser	1993
	A. Deniz Akkaya and Yasemin Oram	
147	Changes in Vulvar Physiology and Skin Disorders with Age and Benefits of Feminine Wipes in Postmenopausal Women	2003
	Miranda A. Farage, Kenneth W. Miller, and William J. Ledger	
Part XV	Cosmetic Surgeries	2015
148	A New Paradigm for the Aging Face	2017
	Samuel M. Lam	
149	Cosmetic Surgery in the Elderly	2027
	Richard Scarborough, Dwight Scarborough, Kimberly M. Eickhorst, and Emil Bisaccia	
150	Facial Rejuvenation: A Chronology of Procedures	2059
	Alexander S. Donath	
151	Elderly Face No Added Risk from Cosmetic Surgery	2073
	Julian Winocour, Varun Gupta, K. Kye Higdon, James C. Grotting, and Max Yeslev	

152	Punctural Face Rejuvenation	2083
	Igor Roganin	
153	Bridging Science and Beauty	2095
	Christine C. Kim and Paul S. Yamauchi	
154	Botulinum Toxin Type A and Laser Resurfacing Provide Adjunctive Benefit to Skin Aging	2099
	Paul S. Yamauchi and Christine C. Kim	
155	Update on Asian Eyelid Anatomy and Periocular Aging Change	2105
	Preamjit Saonanon and Katherine M. Whipple	
Part XVI Mind/Skin/Body Interaction		2119
156	Unified Mind/Body for a Healthy Aging Skin	2121
	Miranda A. Farage, Kenneth W. Miller, Gabe Tzeghai, and Howard I. Maibach	
157	Brain-Skin Connection: Impact of Psychological Stress on Skin	2131
	Ying Chen, Robert Maidof, and John Lyga	
158	Place Your Bets, the Die Is Cast: The Skin at the Retiring Age Today and Tomorrow	2153
	Claudine Piérard-Franchimont, Gérald E. Piérard, Marianne Lesuisse, and Trinh Hermanns-Lê	
159	Sleep and Aging Skin	2161
	Linna Guan, Reena Mehra, and Elma Baron	
Part XVII Global Market Place, Social and Emotional Aspects for the Aged		2175
160	Marketing and Product Design of Antiaging Skin Care Products	2177
	Nancy C. Dawes	
161	Key Trends Driving Antiaging Skin Care in 2009 and Beyond	2189
	Mary Carmen Gasco-Buisson	
Index		2201