

Contents

1 Gerontobiology of the Hair Follicle	1
Desmond J. Tobin	
2 Molecular Basis of Androgenetic Alopecia	9
Valerie A. Randall	
3 Inflammatory Phenomena and Fibrosis in Androgenetic Alopecia	25
Ralph M. Trüeb	
4 Post-Menopausal Frontal Fibrosing Alopecia	33
Steven Kossard	
5 Female Pattern Hair Loss	41
M. Javed Mohungoo and Andrew G. Messenger	
6 Hair Growth Parameters in Pre- and Postmenopausal Women	49
Paradi Mirmirani, Fangyi Luo, Scott R. Youngquist, Brian K. Fisher, James Li, John Oblong, and Thomas L. Dawson	
7 Comparative Histopathology of Androgenetic Alopecia, Diffuse Alopecia, and Senescent Alopecia	61
David A. Whiting	
8 Comparative Gene Expression Profiling of Senescent and Androgenetic Alopecia Using Microarray Analysis	67
Paradi Mirmirani and Pratima Karnik	
9 The Aging Hair Pigmentary Unit	77
Desmond J. Tobin	
10 Oxidative Stress Associated Melanocyte-Loss and Hair Growth Capacity in the Aging Hair Follicle: A Model for Tissue-Specific Aging	91
Eva M. J. Peters	

11 Human Hair Follicle Melanocytes as a Proxy Cell Type in Neurodegeneration Research	101
Nikolaos Papageorgiou, Elisabeth Carpenter, and Desmond J. Tobin	
12 Effect of UV Radiation on Scalp and Hair Growth	113
Claudine Piérard-Franchimont, Pascale Quatresooz, and Gérald E. Piérard	
13 Hair Photoaging	123
Won-Soo Lee	
14 Effect of Tobacco Smoking on Hair	135
Ralph M. Trüeb	
15 Age-Related General Problems Affecting the Condition of Hair	141
Ralph M. Trüeb	
16 Aging of Scalp and Age-Related Disorders of Scalp	167
Desmond Gan and Rodney Sinclair	
17 Care of Aging Hair and Photoprotection	183
Zoe Diana Draelos	
18 Possibilities and Limitations for Reversal of Age-Related Hair Loss	193
Nina Otberg, Isabel Restrepo, and Jerry Shapiro	
19 Possibilities and Limitations for Reversal of Age-Related Pigment Loss	207
Ralph M. Trüeb	
20 Evidence-Based Hair Transplantation	215
Andreas M. Finner	
21 Future Directions: Gene Polymorphism Diagnostics Relevant to Hair	221
Justine A. Ellis	
22 Future Directions: The Known and Unknown Roles of Hair-Follicle Stem Cell Types	233
Robert M. Hoffman	
23 Future Directions: Bioengineering the Hair Follicle	239
Kurt S. Stenn, Ying Zheng, and Jen-Chih Hsieh	
24 Hair After Death	249
Andrew S. Wilson and Desmond J. Tobin	
Index	263



<http://www.springer.com/978-3-642-02635-5>

Aging Hair

Trüeb, R.M.; Tobin, D. (Eds.)

2010, XV, 270 p., Hardcover

ISBN: 978-3-642-02635-5