

1. Record Nr.	UNINA9910298406503321
Titolo	Epigenetic Regulation of Skin Development and Regeneration / / edited by Vladimir A. Botchkarev, Sarah E. Millar
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Humana, , 2018
ISBN	3-319-16769-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (330 pages)
Collana	Stem Cell Biology and Regenerative Medicine, , 2196-8985
Disciplina	572.645
Soggetti	Stem cells Regenerative medicine Tissue engineering Dermatology Stem Cells Regenerative Medicine/Tissue Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Chapter 1 All Roads Go to the Nucleus -- Chapter 2 DNA methylation as an epigenetic memory keeper during skin development and regeneration -- Chapter 3 Polycomb genes and their roles in skin development and regeneration -- Chapter 4 Trithorax genes in the control of keratinocyte differentiation -- Chapter 5 Histone deacetylase functions in epidermal development, homeostasis and cancer -- Chapter 6 The role of ATP-dependent chromatin remodeling in the control of epidermal differentiation and skin stem cell activity -- Chapter 7 Orchestrated Role of microRNAs in Skin Development and Regeneration -- Chapter 8 Non-coding genome and its role in the control of gene expression -- Chapter 9 RNA modifications in the control of epidermal differentiation and stem cell activity -- Chapter 10 Enhancer-Promoter Interactions and Their Role in the Control of Epidermal Differentiation -- Chapter 11 Nuclear lamina as an interface between cytoskeleton and chromatin -- Chapter 12 Epigenetic mechanisms in the control of skin wound healing.
Sommario/riassunto	This indispensable volume highlights recent studies identifying

epigenetic mechanisms as essential regulators of skin development, stem cell activity and regeneration. Chapters are contributed by leading experts and promote the skin as an accessible model system for studying mechanisms that control organ development and regeneration. The timely discussions contained throughout are of broad relevance to other areas of biology and medicine and can help inform the development of novel therapeutics for skin disorders as well as new approaches to skin regeneration that target the epigenome. Part of the highly successful Stem Cells and Regenerative Medicine series, Epigenetic Regulation of Skin Development and Regeneration uncovers the fundamental significance of epigenetic mechanisms in skin development and regeneration, and emphasizes the development of new therapies for a number of skin disorders, such as pathological conditions of epidermal differentiation, pigmentation and carcinogenesis. At least six categories of researchers will find this book essential, including stem cell, developmental, hair follicle or molecular biologists, and gerontologists or clinical dermatologists. .
