Epigenetics and Dermatology

Description: Epigenetics and Dermatology explores the role of epigenetics in the pathogenesis of autoimmune-related skin diseases and skin cancer. Leading contributors cover common and uncommon skin conditions in which extensive epigenetic research has been done. They explain how environmental exposures (chemicals, drugs, sunlight, diet, stress, smoking, infection, etc.) in all stages of life (from a fetus in-utero to an elderly person) may result in epigenetic changes that lead to development of some skin diseases in life. They also discuss the possibilities of new and emergent epigenetic treatments which are gradually being adopted in management of various skin diseases. Chapters follow a conventional structure, covering fundamental biology of the disease condition, etiology and pathogenesis, diagnosis, commonly available treatments, and epigenetic therapy where applicable.

- Discusses the basic biology of skin diseases and skin cancers induced or aggravated by aberrant epigenetic changes
- Evaluates how to approach autoimmune-related skin diseases from a therapeutic perspective using the wealth of emergent epigenetic clinical trials
- Offers a coherent and structured table of contents with basic epigenetic biology followed by discussion of the spectrum of rheumatologic through neoplastic skin diseases, finally ending with a discourse on epigenetic therapy

Contents:

1. Introduction to Epigenetics
2. Laboratory Methods in Epigenetics
3. Keratinocyte Differentiation and Epigenetics
4. Fibroblast Differentiation and Epigenetics
5. Epigenetic Modulation on Hair Follicle Stem Cells
6. Epigenetics and the Regulation of Inflammation
7. Malignant Transformation and Epigenetics
8. Sirtuins and Epigenetics and Dermatology
9. MicroRNAs in Skin Diseases
10. Systemic Lupus Erythematosus
11. Psoriasis
12. Scleroderma
13. Allergic and Inflammatory Skin Diseases
14. Other Autoimmune Diseases
15. Infectious Skin Diseases
16. Melanoma
17. Cutaneous T-cell Lymphoma
18. Aging
19. Diagnostic Techniques Employing Epigenetics
20. Therapeutic Approaches using Epigenetics
21. The Changing World and Epigenetics

How the Environment Influences Epigenetics

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