1. Record Nr. UNINA9910437985303321

Titolo	Nanotechnology in Dermatology / / edited by Adnan Nasir, Adam Friedman, Steven Wang
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-283-86504-1 1-4614-5034-9
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (298 p.)
Altri autori (Persone)	NasirAdnan FriedmanAdam WangSteven
Disciplina	616.5
Soggetti	Dermatology Nanotechnology Pharmaceutical chemistry Nanoscience Microtechnology Microelectromechanical systems Pharmaceutics Nanophysics Microsystems and MEMS
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Formulating with Nanotechnology in Skin Care, Opportunities and Challenges -- 2. Nanotechnology in Photoprotection -- 3. Nanotechnology in Nail Care -- 4. Shampoo and Conditioner Nanoscience -- 5. Nanotechnology Based Fabrics -- 6. Skin Penetration of Engineered Nanomaterials -- 7. 15 Perspectives on Percutaneous Penetration of Nanomaterials -- 8. Enhancement of Topical Delivery with Nanocarriers -- 9. Hair Follicle Targeting with Nanoparticles -- 10. Nano-Based Gene Therapy for Dermatologic Diseases -- 11. Emerging nanomedicine for skin cancer -- 12. Nanotechnology and the Diagnosis of Cutaneous Malignancies -- 13. The Skin Immune System -- 14. Nanotechnology and the Diagnosis of Immune Disorders -- 15.

Nanotechnology and Augmentation of Immunity -- 16. Nanoparticle-based epidermal and dermal vaccination -- 17. Nanotechnology and Suppression of Immunity -- 18. Nanotechnology in the Treatment of Infectious Diseases -- 19. Nanotechnology for the Histologic Diagnosis of Infectious Diseases: A Dermatopathologists Perspective -- 20. Nanotechnology for the Diagnosis of Parasitic Infections -- 21. Application of nanomedicine in wound healing -- 22. Nanotoxicology -- 23. Toxicogenomic evaluation of nanomaterials -- 24. The Language of Nanotechnology and Its Role in Intellectual Property, Regulatory Settings and Consumer Perception -- 25. Understanding Public Opinion of Nanotechnology.

Sommario/riassunto

Nanotechnology in Dermatology is the first book of its kind to address all of the important and rapidly growing aspects of nanotechnology as it relates to dermatology. In the last few years there has been an explosion in research and development for products and devices related to nanotechnology, including numerous applications for consumers, physicians, patients, and industry. Applications are underway in medicine and dermatology for the early detection, diagnosis, and targeted therapy of disease, and nanodesigned materials and devices are expected to be faster, smaller, more powerful, more efficient, and more versatile than their traditional counterparts. Written by experts working in this exciting field, Nanotechnology in Dermatology specifically addresses nanotechnology in consumer skin care products, in the diagnosis of skin disease, in the treatment of skin disease, and the overall safety of nanotechnology. The book also discusses future trends ofthis ever-growing and changing field, providing dermatologists, pharmaceutical companies, policy makers, and consumer cosmetics companies with a clear understanding of the advantages and challenges of nanotechnology today.