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Nota di contenuto	Part 1-Nanotechnology in Skin Infections -- Atopic dermatitis and current trends in pharmacological treatment - a nanoparticulate approach -- Acne vulgaris - recent trends on pharmacological and nanotechnological approaches in therapeutics -- Nitric oxide nanoparticles on skin infections: Current State and Future Prospects -- Metal Nanoparticles Based Antibacterial Nanocomposites for Skin Infections -- Combination therapy using metal nanoparticles for skin infection -- Applications of nanometals in cutaneous infections -- Antifungal nanotherapy: a novel approach to combat superficial fungal infections -- Biocompatible polymers for skin Nanomedicines -- Part 2-Nanotechnology on Soft-Tissue Infections -- Nanotechnological approach to manage diabetic foot ulcer -- Metal nanoparticles in wound infections -- Advances in nanomedicine for burn wound infection treatment -- Applications of chitosan in formulation of novel antibacterial agents and wound dressings -- Polymeric nanocomposites for skin and soft tissues -- Nanoformulations of polyphenols for the

treatment of soft tissues infections -- Cutting Edge Nanotechnologies for Targeting Liver Disorders -- NanoCurcumin compounds formulations: Perspectives in skin and soft tissues infections -- Nanobiotechnology strategies for the treatment tegumentary and visceral leishmaniases, and emergence resistance -- Part 3- Nanotechnology in Bone Infections -- Artificial Scaffolds for Bone Tissue Engineering -- The bone biology and the nanotechnology for bone infections and bone engineering -- Part 4-Nanotechnology and Toxicity -- Genotoxicity studies of Silver Nanoparticles in in vivo and in vitro models.

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Sommario/riassunto

The main goal of the present book is to deal with the role of nanobiotechnology in skin, soft tissue and bone infections since it is difficult to treat the infections due to the development of resistance in them against existing antibiotics. The present interdisciplinary book is very useful for a diverse group of readers including nanotechnologists, medical microbiologists, dermatologists, osteologists, biotechnologists, bioengineers. Nanotechnology in Skin, Soft-Tissue, and Bone Infections is divided into four sections: Section I- includes role of nanotechnology in skin infections such as atopic dermatitis, and nanomaterials for combating infections caused by bacteria and fungi. Section II- incorporates how nanotechnology can be used for soft-tissue infections such as diabetic foot ulcer and other wound infections; Section III- discusses about the nanomaterials in artificial scaffolds bone engineering and bone infections caused by bacteria and fungi; and also about the toxicity issues generated by the nanomaterials in general and nanoparticles in particular. The readers will be immensely enriched by the knowledge of new and emerging nanobiotechnologies in a variety of platforms.

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