1. Record Nr. UNINA9910253952803321

Titolo	Bone Toxicology / / edited by Susan Y. Smith, Aurore Varela, Rana Samadfam
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-56192-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XII, 474 p. 72 illus., 63 illus. in color.)
Collana	Molecular and Integrative Toxicology, , 2168-4219
Disciplina	615.9
Soggetti	Pharmacology Pharmaceutical technology Animal models in research Pharmacology/Toxicology Pharmaceutical Sciences/Technology Animal Models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Bone Toxicology in Preclinical Drug Testing -- Bone Physiology and Biology -- Study designs and Regulatory Considerations -- Specific Considerations for Bone Evaluations for Pediatric Therapeutics -- Bone Pharmacology and other models in Preclinical Drug Testing -- Methods in Bone Toxicology -- Biochemical Markers and Hormones -- Imaging -- Biomechanics -- Pathology and Histomorphometry -- Integrated System Toxicology -- Bone and Muscle -- Bone and Reproductive System -- Bone and Kidneys -- Bone and Energy Metabolism -- Bone and Immune System -- Bone and Central Nervous System -- Bone and Other Organs.
Sommario/riassunto	The content of this book is intended to provide the toxicologist in drug development in the pharmaceutical and biotechnology industries with a broad understanding of bone and its interactions with other organ systems in safety assessments. The book is divided into three parts. The first part describes our current understanding of bone biology and its primary regulatory pathways. Additional chapters address regulatory

and study design considerations for incorporating bone end points in toxicology studies, with special consideration being given to juvenile toxicology studies. This is intended to address recent regulatory requirements to evaluate skeletal development for drugs in development for pediatric populations. The second part of the book describes the principal techniques and methods used in bone research; understanding how these end-points are derived is fundamental to their appropriate application. These first two parts of the book provide the background and the means to develop the concepts in part three which describes bone and its interaction with other organ systems. The unique series of chapters in part three, contributed to by key leaders in their respective fields and in bone research, provides a comprehensive collective work. Although constantly evolving, the crosstalk and interaction of the skeleton with several organ systems is now recognized and well documented, such as for the reproductive system, muscle and kidney, while our understanding of the interaction with other organ systems, such as the immune system and CNS, is in its infancy. Recent work highlights the key role of the skeleton in the regulation of energy metabolism and the impact this has on research in metabolic diseases such as obesity and diabetes. The hope is that this book will enlighten many and encourage more to explore the impact of new compounds on the skeleton in the development of effective and safe drugs.

2. Record Nr. UNINA9910369951703321

Titolo	Biofilm, Pilonidal Cysts and Sinuses / / edited by Melvin A. Shiffman, Mervin Low
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-03077-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (X, 283 p. 67 illus., 53 illus. in color.)
Collana	Recent Clinical Techniques, Results, and Research in Wounds, , 2524-4590 ; ; 1
Disciplina	617.952
Soggetti	Surgery, Plastic Surgery Plastic Surgery General Surgery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Biofilm -- Biofilm: History, Cause and Treatment -- Biofilm: Clinical Experience -- Mixed Species Biofilm Compromises Wound Healing by Disrupting Epidermal Barrier Function -- Anti-Biofilm Agents -- Wound Dressing in the Oral Cavity -- Bacterial Biofilms on Wounds, a Major Factor Delays Wound Healing and a Potential Threat to Human Life and Economy -- Antibiofilm efficacy of honeybee products against wound biofilm -- Biofilm in Infective Endocarditis and Clinical Implications -- Bacteriophage-Mediated Biocontrol of Wound Infections, and Ecological Exploitation of Biofilms by Phages -- Part 2: Pilonidal Cysts and Sinuses -- History and General Information on Pilonidal Cysts and Sinuses -- Pilonidal Disease -- Pilonidal Sinus Disease -- Risk Factors of Pilonidal Sinüs in Teenagers -- Wounds after Excision of Pilonidal Sinus Disease -- Sclerosing Pilonidal Sinus Tracts by Crystallized or Liquid Phenol -- Sacrococcygeal Pilonidal Sinus disease -- The Infected Pilonidal Sinus: Comparison of Conservative versus Plastic Surgical Treatment After Excision -- Pilonidal Sinus Disease -- Tandem Rhomboid Flap Repair: A New Technique in Treatment of Extensive Pilonidal Disease of the Natal Cleft -- Conservative vs Surgical Interventions for Umbilical Pilonidal Sinus --

	Subcutaneous Destruction of Sinus Tract with Long-Term Vessel-Loop Drainage as Minimal Invasive Surgical Treatment for Primary Pilonidal Sinus.
Sommario/riassunto	This book discusses the latest findings in the fields of biofilm, pilonidal cysts and sinuses. The first part provides detailed information on biofilm formation, antibiofilm properties and activity as well as their potential clinical application in wound management. The second part then examines pilonidal sinus disease and the surgical treatment options. Written by leading experts in the field, the book is a valuable resource for beginners and experienced surgeons alike.