Wound Healing: Methods and Protocols (Methods in Molecular Medicine)

From Luisa A DiPietro
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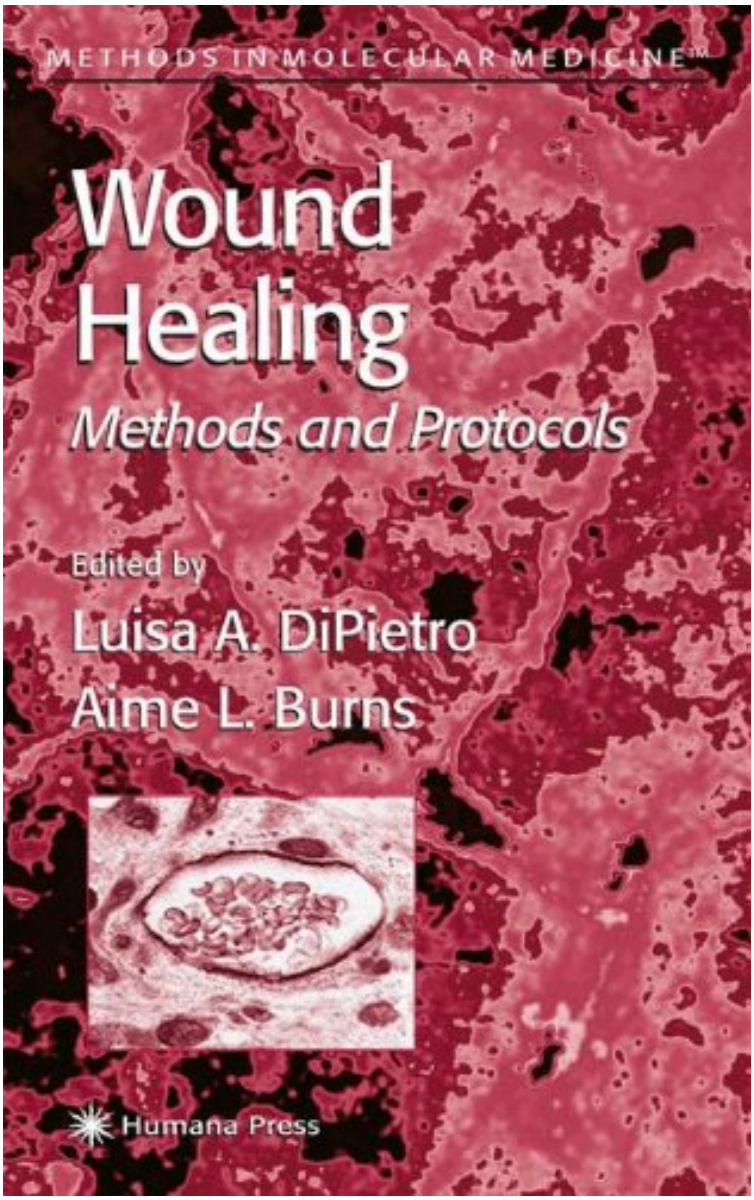

#6729995 in Books Luisa A DiPietro 2010-11-09Original language:EnglishPDF # 1 9.02 x 1.14 x 6.30l, 1.48 #File Name: 161737296X468 pagesWound Healing | File size: 70.Mb

From Luisa A DiPietro : Wound Healing: Methods and Protocols (Methods in Molecular Medicine) before purchasing it in order to gage whether or not it would be worth my time, and all praised Wound Healing: Methods and

Protocols (Methods in Molecular Medicine):

During the past decade, significant progress in molecular and cellular te- niques has greatly advanced our understanding of the wound healing p- cess. Many of these new techniques have been utilized in the context of more classic models of wound healing. The combination of new and classic approaches has allowed scientists to make exciting discoveries in the field of tissue repair, resulting in an explosion of information about the healing p- cess. Importantly, these new findings have great relevance beyond wound healing itself. The injury repair process cuts across many disciplines, exte- ing to such broad fields as cancer, inflammation, and atherosclerosis. The relevance of the field to these many disciplines has generated great interest in models and methods for the study of wound healing. The goal of Wound Healing: Methods and Protocols is to provide scientists from many dis- plines with a compendium of classic and contemporary protocols from r- ognized experts in the field of wound healing. We hope this volume will be useful not only to those working within the field itself, but also to scientists from other disciplines who wish to adapt wound healing models to their own experimental needs. The process of wound healing encompasses many different biologic p- cesses, including epithelial growth and differentiation, fibrous tissue prod- tion and function, angiogenesis, and inflammation.

From the reviews: "Clinical and basic science researchers with an interest in wound healing of various kinds are an appropriate audience for this work. Editors and authors represent some of the leading wound healing laboratories in the United States with a smaller number of presentations from overseas. . .Chapters are written in a straightforward manner. . .This book is a collection of techniques and insights which belongs on the shelf of laboratories or research organizations having an interest in wounds." -Doody's Health Sciences Book Journal"This informative volume provides a highly practical collection of widely used model systems and methods for studying the injury repair process and is therefore highly recommended as a valuable reference source for all individuals with interests in wound healing." - Carbohydrate Polymers"The editors have done an impressive job of editing the book into both a practical and readable style. It is highly recommended for any group that wishes to participate in this exciting and expanding field of research." -British Journal of Surgery "This book provides a range of classical and more recent tools in wound research. an impressive collection of both animal and in vitro-based techniques useful for experimental studies of tissue damage and repair. Each chapter has a concluding notes section offering valuable suggestions and warnings based on practical experience. The book is highly recommended for all basic and clinical researchers involved in tissue repair biology and particularly those with an interest in experimental wound modelling and analysis." (Ola Rollman, Acta Dermato-Venereologica, Vol. 85, 2005)From the Back CoverDuring the past decade the significant progress made in cell and molecular biotechnology has led to exciting discoveries in the field of tissue repair, producing a wealth of information about the healing process. In Wound Healing: Methods and Protocols, expert researchers and physicians not only describe classic and contemporary laboratory methods for studying tissue repair using a broad range of wound healing models, but also provide sensitive assays for the assessment of tissue healing. The systems detailed include human, animal, in vitro, in vivo, and impaired healing models, as well as models in which underlying systemic and genetic conditions influence the healing process. Useful for the study of many biological processes, including angiogenesis, epidermal differentiation and repair, acute inflammation, ECM synthesis, and remodeling, these powerful models illustrate biochemical, molecular, and surgical techniques designed for the analysis and manipulation of the healing wound, and provide step-by-step instructions to ensure successful results. In many cases, several different approaches to a single process are examined, with sample results and analyses given to help users in selecting the approach most suited to the problem at hand. Comprehensive and enlightening, Wound Healing: Methods and Protocols offers both basic and clinical scientists a thought-provoking and highly practical collection of widely used model systems and methods for studying the injury repair process.