



# Platelet-Rich Plasma: Regenerative Medicine: Sports Medicine, Orthopedic, and Recovery of Musculoskeletal Injuries (Lecture Notes in Bioengineering)

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## **Platelet-Rich Plasma: Regenerative Medicine: Sports Medicine, Orthopedic, and Recovery of Musculoskeletal Injuries (Lecture Notes in Bioengineering)**

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Platelet-Rich Plasma (PRP) has gained tremendous popularity in recent years as a treatment option for specialties including Orthopedics, Dentistry, Sports Medicine, Otorhinolaryngology, Neurosurgery, Ophthalmology, Urology, Vascular, Cardiothoracic and Maxillofacial Surgery, and Veterinarian Medicine. Nowadays, PRP and Stem Cell Science have added an exciting dimension to tissue repair.

This book begins by giving the reader a broad overview of current progress as well as a discussion of the technical aspects of preparation and therapeutic use of autologous PRP. It is followed by a review of platelet structure, function and major growth factors in PRP (PDGF and TGF $\beta$ ). The third chapter outlines the basic principles of biochemical cellular metabolism that increases the efficacy of PRP. Analogous to the preparation of soil for a garden, restoring cellular health should be the first consideration in Regenerative Medicine. Standardization of PRP preparation to clinical use still remains a challenging prospect. In this sense, a feasible strategy for studying PRP preparation is illustrated, which also allows to modulate and tailor the quality of PRP for further clinical applications.

The science behind PRP and stem cells, on tissue regeneration, cell proliferation and mesenchyme stem-cells are emphasized and reviewed. Various specific uses of PRP are described with detailed illustrations of various personal experiences mainly in orthopedic injuries, ligament and tend

on repair, degenerative diseases, sports medicine, chronic wound healing as well as rehabilitation aspects in tendinopathy.

Expertly written by leading scientists in the field, this book provides for beginners and experienced readers scientific fundamentals, the state of art of

PRP, specific uses and personal experiences with a practical approach and reference for current trends in use. Finally, this book paves the way for future developments.

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### **Editorial Review**

#### Review

“Black-and-white and full-color charts, micrographs, photos, tables, x-rays and other types of images are used throughout the book to make it easier for the student or practitioner to understand what is presented in the text portion of the chapters. Books on the subject of platelet-rich plasma are rare, and this one is quite comprehensive and thorough in its coverage. This is an excellent addition to the library of anyone interested in learning more about, or practicing regenerative medicine.” (Nano Khilnani, Biz India Online News, bizindia.net, April, 2015)

“The focus of this wonderful book is on the foundation, impact, application, and future of platelet-rich plasma (PRP). ... A broad audience of primary care physicians and surgeons, as well as researchers and clinicians, will benefit from the information and direction that this book provides. ... it is well organized and provides a great deal of valuable information that is easy to follow and retrieve. This is an excellent, foundational book on PRP.” (Mark R. Hutchinson, Doody’s Book Reviews, February, 2014)

#### From the Back Cover

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## **Users Review**

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On this era which is the greater individual or who has ability in doing something more are more valuable than other. Do you want to become one of it? It is just simple strategy to have that. What you have to do is just spending your time very little but quite enough to get a look at some books. One of the books in the top checklist in your reading list is definitely Platelet-Rich Plasma: Regenerative Medicine: Sports Medicine, Orthopedic, and Recovery of Musculoskeletal Injuries (Lecture Notes in Bioengineering). This book and that is qualified as The Hungry Hillside can get you closer in growing to be precious person. By looking upward and review this e-book you can get many advantages.

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