Connective Tissue: Histophysiology, Biochemistry, Molecular Biology

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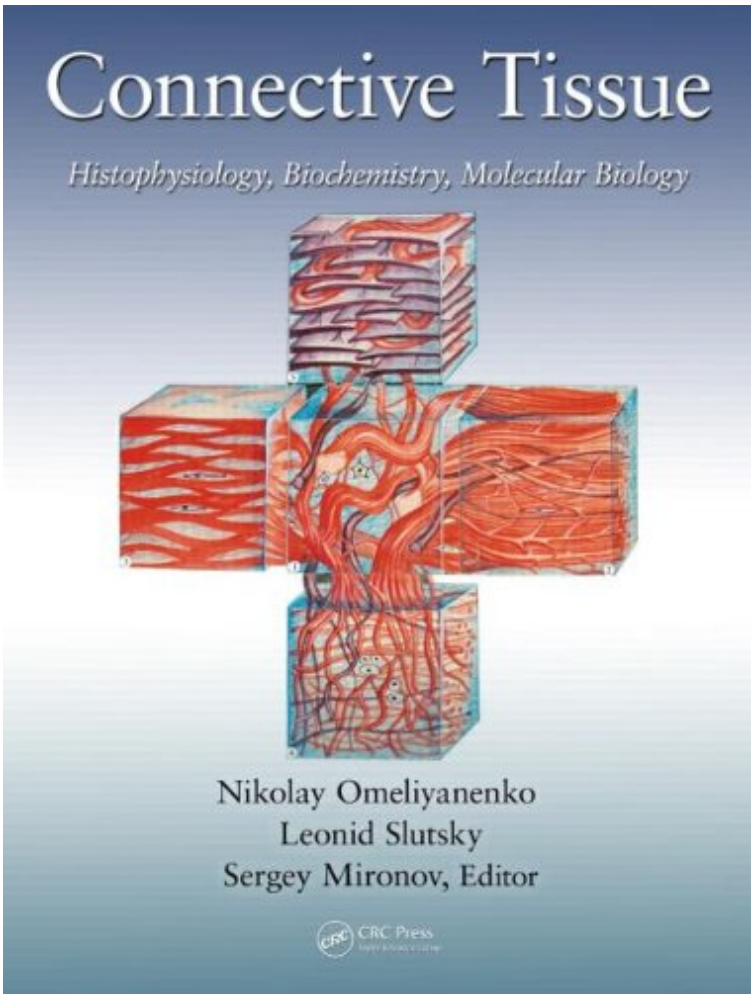

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Nikolay Petrovich Omelyanenko, Leonid Ilyich Slutsky, Sergey Pavlovich Mironov : Connective Tissue: Histophysiology, Biochemistry, Molecular Biology before purchasing it in order to gage whether or not it would be worth my time, and all praised Connective Tissue: Histophysiology, Biochemistry, Molecular Biology:

0 of 0 people found the following review helpful. An important resourceBy cynthiaThis comprehensive review of connective tissue is a must read for health practitioners committed to holistic care. The connective tissue system is the most prevalent tissue in the body. An understanding of its histophysiology, biochemistry and molecular biology deepens understanding and clinical competence for people in all health disciplines.

Connective tissue is a multicomponent, polyfunctional complex of cells and extracellular matrix that serves as a

framework for all organs, combining to form a unified organism. It is a structure responsible for numerous vital functions such as tissueorgan integration, morphogenesis, homeostasis maintenance, biomechanical support, and more. The regeneration potential of connective tissue affects healing of damaged tissue and organs, while trauma, stress, and other factors that cause damage to connective tissue can lead to numerous disorders.Connective Tissue: Histophysiology, Biochemistry, Molecular Biology brings together crucial knowledge of mammalian connective tissue (including human) and its components, both cellular and noncellular, in one authoritative reference. The breadth and depth of information has fundamental scientific significance as well as applied relevance in clinical medicine. The first half of the book covers the structure, classification, biochemical aspects, histogenesis, and cellular elements of connective tissue. It presents data from the macro- to nanolevel organization of the extracellular matrixits structural and functional aspectsand addresses metabolic functions and the biochemistry and molecular biology of connective tissue ageing.The second half of the book reviews current data on the biochemistry and molecular biology of skeletal connective tissue, including bone and cartilage metabolism and regulation. It presents an in-depth analysis of data on the molecular mechanisms of connective tissue ontogenesis, from embryonic development through ageing. It also reports novel findings on bone marrow stroma and describes electron microscopy results of the nanostructure of bone mineral, mineralized cartilage, and teeth compared with coral and seashells. Comprising both classic and modern data on the histopathology, biochemistry, and molecular biology of connective tissue, this book provides a unique resource for clinicians and researchers alike.

About the AuthorNikolay Petrovich Omeliyanenko, Doctor of Medicine, Professor, Member of the New York Academy of Sciences, Winner of the Prize of the Russian Federation Government, the Chief of the Laboratory of Connective Tissue of the Central Research Institute of Traumatology and Orthopedics of N.N. Priorov, the Department of Public Health of the Russian Federation. The scientific interests: structural and functional organization of bone, cartilaginous tissue and other connective tissue types in health, regeneration and pathology.Leonid Ilyich Slutsky, Professor Emeritus, Doctor Habilitatus of Medicine. In 19601996 the Chief of the Laboratory of Biochemistry of the Riga Research Institute of Traumatology and Orthopedics (Latvia). The main scientific interests: biochemistry of the connective tissue and skeleton.Sergey Pavlovich Mironov, Doctor of Medicine, Professor, Academician of the Russian Academy of Sciences and Russian Academy of Medical Sciences, Honoured Worker of Science of the Russian Federation, Winner of the State Prize and the Prize of the Russian Federation Government, the Head of the Central Research Institute of Traumatology and Orthopaedics of N.N. Priorov, the Department of Public Health of the Russian Federation. Field of research: clinical and fundamental orthopedics and traumatology.