1. Record Nr. UNINA9910633967703321

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Titolo	Rehabilitation of the Human Bone-Muscle System / / Adrian Olaru
Pubbl/distr/stampa	London : , : IntechOpen, , 2022
ISBN	1-80355-166-6
Descrizione fisica	1 online resource (160 pages)
Disciplina	611.7
Soggetti	Musculoskeletal system
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introductory Chapter: Introduction to Rehabilitation -- 2. Characterization and Integration of Muscle Signals for the Control of an Exoskeleton of the Lower Limbs during Locomotor Activities -- 3. Design and Control of the McKibben Artificial Muscles Actuated Humanoid Manipulator -- 4. Shape Memory Alloy (SMA)-Based Exoskeletons for Upper Limb Rehabilitation -- 5. A Review on Vacuum-Powered Fluidic Actuators in Soft Robotics -- 6. A Systematic Study on TRIZ to Prepare the Innovation of 3DPVS.
Sommario/riassunto	Mechatronic systems, especially exoskeletons, are a potential solution for physical rehabilitation in people with neurological problems or physical disabilities. This book discusses the relationship between bio-signals (EMG) and kinematic parameters (articular angles) in developing an assistance exoskeleton. A variety of constitutive materials and design principles are described and discussed, as are strategies for designing vacuum-powered actuators. The book also examines the main materials and fabrication processes used for developing exoskeletons and highlights the most promising approaches.

2. Record Nr. UNINA9910346732703321

Titolo	Aldosterone-Mineralocorticoid Receptor : Cell Biology to Translational Medicine / / Brian Harvey, Frederic Jaisser, editors
Pubbl/distr/stampa	IntechOpen, 2019 London : , : IntechOpen, , [2019] ©2019
ISBN	1-83962-200-8 1-83962-199-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (300 pages) : illustrations
Disciplina	615.364
Soggetti	Aldosterone - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book is an open access dissemination of the EU COST Action ADMIRE in Aldosterone/Mineralocorticoid Receptor (MR) physiology and pathophysiology. Aldosterone is the major hormone regulating blood pressure. Alterations in blood levels of aldosterone and genetic mutations in the MR receptor are major causes of hypertension and comorbidities. Many of the drugs in clinical use, and in development for treating hypertension, target aldosterone and MR actions in the kidney and cardiovascular system. The ADMIRE book assembles review chapters from 16 European ADMIRE laboratories providing the latest insights into mechanisms of aldosterone synthesis/secretion, aldosterone/MR physiology and signaling, and the pathophysiological roles of aldosterone/MR activation.