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Nota di contenuto	SECTION 1: Molecular pathology of immune, inflammatory, and hemostatic disorders -- Immune responses at host barriers and their importance in systemic autoimmune diseases -- Statins and hemostasis: therapeutic potential based on clinical evidence -- Effects of adrenergic receptor stimulation on human hemostasis: A systematic review -- 1-adrenergic stimulation increases platelet adhesion to endothelial cells mediated by TRPC6 -- Physical Activity, Burnout, and Engagement in Latin American Students of Higher Education during the COVID-19 Pandemic -- Small plastics, big inflammatory problems -- Impact of a community-based pelvic floor kinesic rehabilitation program on the quality of life of Chilean adult women with urinary incontinence -- SECTION 2: Molecular pathology of endocrine and muscular disorders -- Iodine intake based on a survey from a cohort of women at their third trimester of pregnancy from the Bosque County Chile -- Appraisal of the neuroprotective effect of dexmedetomidine: a meta-analysis -- Bile acids alter the autophagy and mitogenesis in skeletal muscle cells -- Upregulation of CCL5/RANTES gene expression in the diaphragm of mice with cholestatic liver disease -- Differential

fibrotic response of muscle fibroblasts, myoblasts, and myotubes to cholic and deoxycholic acids -- BMAL1 regulates glucokinase expression through E-box elements in vitro -- SECTION 3: Molecular pathology of cancer: determinants and potential therapies -- Correlation between endoglin and malignant phenotype in human melanoma cells: analysis of hsa-mir-214 and hsa-mir-370 in cells and their extracellular vesicles -- Increase in Frequency of Myeloid-Derived Suppressor Cells in the Bone Marrow of Myeloproliferative Neoplasm: Potential Implications in Myelofibrosis -- The "Ins and Outs" of prostate specific membrane antigen (PSMA) as specific target in prostate cancer therapy -- Transforming Growth Factor-1 in Cancer Immunology: opportunities for immunotherapy.

Sommario/riassunto

The present work corresponds to a compilation of independent contributions in the fields of endocrinology, immunity, cancer, neurobiology, and myology. Revision of current advances as well as novel findings in the form of original articles are presented in a balanced fashion. The book has been divided into three sections in line with the main subject: Molecular pathology of immune, inflammatory, and hemostatic disorders; Molecular pathology of endocrine and muscular disorders; and Molecular pathology of cancer: determinants and potential therapies. In the first section, contributing authors take the reader through the molecular pathology of immune responses, inflammation, and hemostasis, by collating an update on systemic autoimmune diseases, the therapeutic potential of statins in hemostasis, the effects of adrenergic stimulation on coagulation, the emerging field of physical burnout due to the mobility restrictions in response to the 2020 SARS-CoV-2 pandemic imposed worldwide, and the success of community-oriented muscular kinesic rehabilitation. The second section presents engaging results from a survey of iodine intake through the diet of pregnant females, an appraisal of the neuroprotective effect of dexmedetomidine, novel evidence on muscle physiopathology, describing the upregulation of CCL5/RANTES during cholestatic liver disease, the fibrotic response emerging in response to cholic and deoxycholic acids, and the altering effects of bile acids in autophagy and mitogenesis. In the third section, a comprehensive revision of cancer literature is offered with an emphasis on melanoma, myeloid-derived suppressor cells, microRNA-based diagnostic approaches, and new avenues for cancer immunotherapy. Altogether, these individual contributions offer a comprehensive and up-to-date outlook of the current state in the field of molecular pathology. Chapter 14 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
