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INFLAMMATION -- ESTROGEN SIGNALING -- ESTROGEN TURNOVER IN THE ADIPOSE TISSUE -- MODELS OF ESTROGEN INSUFFICIENCY -- ESTROGENS AND ADIPOSE TISSUE MASS, DISTRIBUTION AND CELLULARITY -- ESTROGENS AND AT INFLAMMATION -- XENOESTROGENS AND OBESITY-ASSOCIATED COMPLICATIONS -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 2: EFFECTS OF ESTROGEN USE, FOLLICLE-STIMULATING HORMONE AND LUTEINIZING HORMONE ON COGNITIVE TESTS DEMANDING ATTENTION IN POSTMENOPAUSAL WOMEN -- INTRODUCTION -- METHOD -- Sustained Attention -- Attention Span -- Word Repetition Span -- RESULTS -- CONCLUSION -- AUTHOR CONTRIBUTIONS -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 3: THE ROLE OF ESTROGENS IN OSTEOARTHRITIS AND INFLAMMATION -- ABSTRACT -- INTRODUCTION -- ESTROGEN RECEPTORS STRUCTURE AND CHARACTERISTICS -- ESTROGEN ON INFLAMMATION -- ESTROGEN AND AUTOIMMUNE DISEASES: RHEUMATOID ARTHRITIS AND SYSTEMIC LUPUS ERYTHEMATOSUS -- ESTROGEN AND OSTEOARTHRITIS -- CONCLUSION -- COMPETING INTERESTS -- REFERENCES -- Chapter 4: ESTROGEN IN REGULATING THE GENDER DISPARITY OF HEPATOCELLULAR CARCINOMA -- ABSTRACT -- INTRODUCTION -- HCC OCCURS PREFERENTIALLY IN MALES, WITH THE SEX DIFFERENCE STARTING FROM CHRONIC HEPATITIS -- THE INVOLVEMENT OF ANDROGEN AXIS IN PROMOTING MALE HCC -- THE INVOLVEMENT OF ESTROGEN AXIS IN PROTECTING FEMALE HCC: EPIDEMIOLOGICAL EVIDENCE AND ANIMAL STUDIES -- WILD TYPE AND VARIANT ESTROGEN RECEPTORS IN NORMAL AND HCC LIVER TISSUES -- MOLECULAR MECHANISMS FOR THE PROTECTIVE ROLE OF ESTROGEN AXIS IN FEMALE HCC. THE MECHANISMS OF ESTROGEN AXIS IN PREVENTING HEPATIC FIBROSIS AND STEATOSIS -- THE REGULATORY MECHANISMS FOR THE DOWN-REGULATION OF ER α IN FEMALE HCC -- THE INTERACTION BETWEEN THE HEPATITIS VIRUS B AND ESTROGEN PATHWAY -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 5: POST-TRANSCRIPTIONAL EFFECTS OF ESTROGENS ON GENE EXPRESSION: MESSENGER RNA STABILITY AND TRANSLATION REGULATED BY MICRORNAs AND OTHER FACTORS -- ABSTRACT -- INTRODUCTION -- ESTROGENS STABILIZE AND DESTABILIZE SPECIFIC MRNAs -- ESTROGENS AFFECT MRNA TRANSLATION -- ESTROGEN ACTIONS AND MICRORNAs -- MicroRNAs - Biogenesis and Regulation of Gene Expression -- Estrogens Regulate Expression of MicroRNA Genes in Responsive Tissues during Normal Physiology and Disease -- MicroRNAs Regulate ER Gene Expression and Estrogen Actions -- FUTURE THERAPEUTIC APPROACHES TO REGULATING POST-TRANSCRIPTIONAL ESTROGEN ACTIONS -- CONCLUSION -- REFERENCES -- INDEX.

Sommario/riassunto

Estrogens are a family of hormones that potently regulate reproductive, cardiovascular, bone, brain, and other physiology by altering gene expression. In this book, the authors present topical research in the study of the biochemistry, therapeutic uses and physiological effects of hormones. Topics include the physiological effects of estrogen in fish and its application; estrogens in osteoarthritis and inflammation; estrogens as mediators of obesity-induced inflammation; the transcriptional effect of estrogens on gene expression; and the role of estrogens in regulating the gender disparity of hepatocellular carcinoma.
