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Titolo	Principles of gender specific medicine : gender in the genomic era // edited by Marianne Legato
Pubbl/distr/stampa	Boston, [Massachusetts] : , : Academic Press, , 2017 ©2017
ISBN	0-12-803542-0
Edizione	[Third edition.]
Descrizione fisica	1 online resource (794 pages) : illustrations (some color)
Disciplina	613
Soggetti	Health - Sex differences Health Services
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Revised edition of: Principles of gender-specific medicine / edited by Marianne J. Legato ; section editors, William Byne [and others]. 2nd ed. 2010.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Normal and Variant Sex Development -- Gender Diagnoses -- Gender Identity in Disorders of Sex Development -- Female Sexual Function: The Role of Animal Models in Assessing Female Sexual Dysfunction -- Fertility Treatment and Preservation in Transgender Men and Women -- Standards of Care for the Health of Transsexual, Transgender, and Gender-Nonconforming People: An Introduction -- Sex-Dependent and -Independent Mechanisms in External Genitalia Development -- The Transsexual Adult -- Sexual and Gender Minority Individuals in Health Care: Strategies to Include Sexual Orientation and Gender Identity in Health Professions Education -- Sex Influences Exist at All Levels of Human Brain Function -- Sex Differences in the Brain: Focus on Developmental Mechanisms -- Sexual Dimorphisms in the Nervous System of the Nematode <i>Caenorhabditis elegans</i> -- Oxytocin and Brain Plasticity -- Emotion and Gender-Specific Neural Processing in Men and Women -- Behind the Mask: The Experience of Assessment, Diagnosis, and Living with Autism for Girls and Young Women -- The Significance of Gender in Perinatal Medicine -- Intrauterine Development of Sex Differences—Fetal Programming -- Battle of the Sexes: How the Selection of Spermatozoa in the Female Reproductive Tract Manipulates

the Sex Ratio of Offspring -- All Cells Have a Sex: Studies of Sex Chromosome Function at the Cellular Level -- Sex-Specific Implications of Exposure to An Adverse Intrauterine Environment -- Immune Response—The Impact of Biological Sex and Gender -- Geoepidemiology and the Impact of Sex on Autoimmune Diseases -- Gender and Gene Regulation in Human Immunity -- Sex and Gender Specific Aspects—From Cells to Cardiovascular Disease -- Estrogen: Impact on Cardiomyocytes and the Heart -- The Sexually Dimorphic Characteristics of the Pathophysiology and Treatment of Atrial Fibrillation -- Gender Differences in Chronic Obstructive Pulmonary Disease—Current Knowledge and Deficits -- Cancer: Gender Differences at the Molecular Level -- An Updated Overview of the Gender-Specific Response to Infection -- Gender-Based Differences in Mortality in Indian Children Aged 5 to 14 years -- Consideration of Biological Sex in Translating Regenerative Stem Cell Therapies -- Adipose-Derived Stem Cells in Regenerative Medicine -- Sex, Gender, and Pain -- Sex and Gender Differences in Trauma Victims Presenting for Treatment -- Women Do Worse Than Men—Gender-Specific Differences in Burn Patients -- Exercise Physiology in Men and Women -- Musculoskeletal Complaints in Male and Female Instrumental Musicians -- Nutritional Genomics and Biological Sex -- Microbiome: Impact of Gender on Function & Characteristics of Gut Microbiome -- Sex and Gender Differences in Sleep Disorders: An Overview -- Gender Differences in Bladder and Kidney Cancers -- The Complex Challenge of Blood Pressure Regulation: Influences of Sex and Aging on Sympathetic Mechanisms -- Gender at the Interface of Renal Aging: Physiological and Pathological Perspectives -- Gender Differences in Mobility of Elderly: Measurements and Interventions to Improve Mobility -- Personalized Medicine in Space Flight, Part I: Standard Clinical Approaches -- Personalized Medicine in Space Flight, Part II: Personalized Precision Medicine Approaches -- Robots and Gender -- Cyborgs: Understanding and Mutual Treatment -- Precision Medicine and Challenges in Research and Clinical Implementation -- Gender-Specific Medicine in Pharmaceutical Drug Discovery and Development

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## Sommario/riassunto

The announcement that we had decoded the human genome in 2000 ushered in a new and unique era in biomedical research and clinical medicine. This Third Edition of Principles of Gender-Specific Medicine focuses, as in the past two editions, on the essentials of sexual dimorphism in human physiology and pathophysiology, but emphasizes the latest information about molecular biology and genomic science in a variety of disciplines. Thus, this edition is a departure from the previous two; the editor solicited individual manuscripts from innovative scientists in a variety of fields rather than the traditional arrangement of sections devoted to the various subspecialties of medicine edited by section chiefs. Wherever it was available, these authors incorporated the latest information about the impact of the genome and the elements that modify its expression on human physiology and illness. All chapters progress translationally from basic science to the clinical applications of gender-specific therapy and suggest the most important topics for future investigation. This book is essential reading for all biomedical investigators and medical educators involved in gender-specific medicine. It will also be useful for primary care practitioners who need information about the importance of sex and gender in the prevention, diagnosis and treatment of illness.

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