1. Record Nr.   UNINA9911061838403321

   Autore   Lee Heisook

   Titolo   Sex, Gender, and Emerging Technology in Healthcare: Mitigating Bias and Fostering Equity : From Biology to Care: Sex and Gender Impacts on Health and Medicine / / edited by Heisook Lee, Nayoung Kim, Sabine Oertelt-Prigione

   Pubbl/distr/stampa   Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026

   ISBN   981-9520-70-3

   Edizione   [1st ed. 2026.]

   Descrizione fisica   1 online resource (312 pages)

   Collana   Medicine Series

   Altri autori (Persone)   Lee

   Disciplina   610.28

   Soggetti   Biomedical engineering
                   Medicine - Research
                   Biology - Research
                   Medicine
                   Public health
                   Artificial intelligence
                   Neurosciences
                   Biomedical Devices and Instrumentation
                   Biomedical Research
                   Clinical Medicine
                   Public Health
                   Artificial Intelligence
                   Neuroscience

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di contenuto   Introduction to Sex and Gender Medical science -- Biological Foundations and Mechanisms -- Organ-Specific or Disease-Specific Sex Differences -- Sex Differences in Neuroscience and Brain Health -- Innovative Approaches and Emerging Technologies -- Environmental and Lifespan Considerations -- Conclusion and Future Directions.

   Sommario/riassunto   This book, Sex, Gender, and Emerging Technology in Healthcare: Mitigating Bias and Fostering Equity, is a timely and comprehensive exploration of how sex and gender influence health, disease, and

medical research. With increasing recognition of the critical role that biological sex and gender identity play in health outcomes, this book seeks to bridge the gaps in current understanding and offer practical insights for researchers, clinicians, and policymakers. The motivation behind this book stems from a growing awareness of sex and gender disparities in medicine. Historically, research has often been conducted using male subjects as the default, overlooking the distinct biological, physiological, and sociocultural factors that affect health in women and gender-diverse populations. This oversight has contributed to inequities in diagnosis, treatment, and outcomes. By integrating cutting-edge research across multiple disciplines, this book responds to the urgent need for a more inclusive and nuanced understanding of health and disease. The aim of this book is to provide a foundational and advanced exploration of sex and gender differences in health, using an interdisciplinary approach that integrates biology, neuroscience, pharmacology, oncology, environmental health, and machine learning. The book's scope includes the latest research on sex-specific disease mechanisms, gender-sensitive clinical practices, and innovative methodologies for studying these differences. It presents these topics at both foundational and advanced levels, making the book accessible to a broad audience while remaining a valuable resource for experts.