1. Record Nr. UNINA9910559394703321

Titolo	Handbook of Space Pharmaceuticals / / edited by Yashwant V. Pathak, Marlise Araújo dos Santos, Luis Zea
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-05526-4
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (1036 pages)
Disciplina	616.980214 338.4761510919
Soggetti	Pharmaceutical chemistry Aerospace engineering Astronautics Solar system Pharmaceutics Aerospace Technology and Astronautics Space Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section I: Principles of Pharmaceuticals -- Section II: Effects of Spaceflight on Human Physiology and its Consequences on Drug Treatment -- Section III: Model Organisms for Pharmaceutical Research in Space -- Section IV: Simulated Microgravity for Pharmaceutical Research -- Section V: Translating Knowledge from Spaceflight Research to Earth Applications -- Section VI: Nutritional and Alternative Approaches to Treatment in Space.
Sommario/riassunto	This handbook, directed at medical professionals and students who are involved in developing the space industry or are academicians doing research in this area, covers current pharmaceutical knowledge about the difference in medication efficacy in space versus on Earth and includes trial results and best practices for the space research and travel industry. The well-known contributors come from an interdisciplinary background and address all aspects of the subject, from the physiological impact of spaceflight to the effects of radiation.

As the commercial space industry expands its operations in industry and tourism, the field of space pharmaceuticals is growing commensurately. Existing pharmacological research from space is thoroughly covered in this book, and Earth applications are also described. Potential pharmacological solutions are posed along with the known challenges and examples from existing studies, which are detailed at length. This major reference work is a comprehensive and important medical resource for all space industry players.