

1. Record Nr.	UNINA9910686483103321
Titolo	Biomedical Visualisation : Volume 15 Visualisation in Teaching of Biomedical and Clinical Subjects: Anatomy, Advanced Microscopy and Radiology / / edited by Eiman Abdel Meguid, Priti L. Mishall, Haley L. Nation, Paul M. Rea
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031264627 9783031264610
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (229 pages)
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1406
Disciplina	612.0076
Soggetti	Medicine - Research Biology - Research Radiology Medical education Anatomy Biomedical Research Medical Education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I. Microscopy -- Chapter 1. Advances in Microscopy and Its Applications with Special Reference to Fluorescence Microscope: An Overview -- Chapter 2. Visualisation of Host-Pathogen Communication -- Chapter 3. A Review of Pathology and Analysis of Approaches to Easing Kidney Disease Impact: Host-Pathogen Communication and Biomedical Visualization Perspective -- Part II. Radiology and Patient Care -- Chapter 4. The Evolution of Equipment and Technology for Visualising the Larynx and Airway -- Chapter 5. The Impact of Technological Innovation on Dentistry -- Chapter 6. Advanced 3D Visualization and 3D Printing in Radiology -- Chapter 7. 3D Visualisation of the Spine -- Part III. Anatomy Education -- Chapter 8. Visualization in Anatomy Education -- Chapter 9. Visualizing Anatomy in Dental Morphology Education -- Chapter 10. Flashcards: The

Sommario/riassunto

This book highlights the integration of science and imaging and demonstrates how we can teach and learn in a much more accessible, innovative, and engaging way using technology. This volume is particularly focused on three main themes: advanced microscopy, anatomy education, and radiology visualisation related to patient care. The chapters pertaining to advanced microscopy convey complex biomedical information by visual means. These chapters provide both an overview on the principles of microscopy and specific applications of microscopy that have led to groundbreaking discoveries. Chapters pertaining to education summarise the recent trends in teaching gross and microscopic anatomy and emphasise the creation and use of novel tools to support student learning. Lastly, the radiological visualisation segment dives into the history of radiographic imaging and highlights the profound effect technology has had on improving patient outcomes. This volume will be of particular interest to many; the scope of this book encompasses medicine, dentistry, allied health professions, biomedical sciences, anatomy and histology education, radiology, and microscopy. Students, researchers, educators, and clinicians will learn something new, be stimulated to ask innovative questions, and be inspired to continue the technological advancements pushing science forward. .
