

1. Record Nr.	UNINA9910616205003321
Titolo	3D Printing in Oral Health Science : Applications and Future Directions / / edited by Prabhat Kumar Chaudhari, Dinesh Bhatia, Jitendra Sharan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-07369-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (325 pages)
Collana	Medicine Series
Disciplina	617.69
Soggetti	Dentistry Biotechnology Biomedical engineering Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1) An Introduction to 3D Printing in Oral Health Science -- Chapter 2) Principles and Applications of Various 3D Scanning Methods for Image Acquisition for 3D Printing Applications in Oral Health Science -- Chapter 3) Commonly Used 3D Printing Technologies in Oral Health Science -- Chapter 4) An Overview of 3D Printable Materials for Dental and Craniofacial Applications -- Chapter 5) Fundamentals of Computer Aided Design (CAD) in Dental Healthcare: From Basics to Beyond -- Chapter 6) 3D Printing and Its Applications in Maxillofacial Surgery -- Chapter 7) Applications of 3D Printing in Periodontal Tissue Regeneration -- Chapter 8) Contemporary Applications of 3D Printing in Prosthodontics -- Chapter 9) 3D Printed Surgical Positioning Rib Graft Jig in Combined Orthodontic Surgical Management of Pruzansky/Kaban Type IIB and Type III Hemifacial Microsomia -- Chapter 10) Bioprinting Applications in Craniofacial Regeneration -- Chapter 11) 3D-Printed Metal Implants for Maxillofacial Restorations -- Chapter 12) 3D Printing in Endodontics -- Chapter 13) 3D Printing: Limitations, Safety and Regulatory Considerations for Oral Health Science -- Chapter 14) Future of 3D Printing in Oral Health Sciences.
Sommario/riassunto	This book on 3D printing in oral health science aims to equip the reader with a sound understanding of contemporary clinical

applications in all fields of dentistry and their future directions. In the last few years, the development of 3D printing for medical and dental applications has increased tremendously. Advancements in 3D printing create the possibility of customized products, savings on small-scale productions, ease of sharing and processing of patient image data, and educational up-gradation. Looking at the dental specialties, it is evident that 3D printing has applications in all aspects of oral health science including prosthodontics, oral surgery, periodontics, endodontics, and orthodontics. This book will cover all major fields in dentistry and will help the practitioner in the process of decision-making and apply concepts in clinical or laboratory practice. It is based on current scientific evidence to provide readers with an up-to-date contemporary understanding of the subject, both from the clinical and the technological side. The book is a valuable asset for all who specialize in 3D printing and for those interested in learning more about this field.

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