

1. Record Nr.	UNINA9910825350603321
Titolo	Mineralized tissues in oral and craniofacial science : biological principles and clinical correlates / / edited by Laurie K. McCauley, Martha J. Somerman
Pubbl/distr/stampa	Ames, IA ; ; Chichester, West Sussex, : Wiley-Blackwell, 2012
ISBN	9781118704868 1-118-70486-X 1-280-58686-9 9786613616692 1-118-27821-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (392 p.)
Altri autori (Persone)	McCauleyLaurie K SomermanMartha J
Disciplina	617.6/34
Soggetti	Bones - Growth Skull - Growth
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mineralized Tissues in Oral and Craniofacial Science; Contents; Contributors; Preface; Acknowledgments; Foreword; SECTION 1: Bones of the oral-dental and craniofacial complex; 1: Embryology of craniofacial bones; 2: Clinical correlate: cleft lip and palate; 3: Cell and molecular biology of the osteoclast and bone resorption; 4: Clinical correlate: osteopetrosis; 5: Clinical correlate: CLCN7-associated autosomal recessive osteopetrosis; 6: Osteoblasts of craniofacial bone; 7: Clinical correlate: cleidocranial dysplasia; 8: Cell biology of craniofacial bone: osteocytes 9: Clinical correlate: Van Buchem disease 10: Stem cell biology in the craniofacial apparatus; 11: Clinical correlate: stem cell therapy for craniofacial bone regeneration; 12: Extracellular matrix and mineralization of craniofacial bone; 13: Clinical correlate: osteogenesis imperfecta; SECTION 2: Teeth; 14: Tooth development; 15: Clinical correlate: tooth agenesis; 16: Dentin; 17: Clinical correlate: dentinogenesis imperfecta, restorative procedures, and caries; 18:

Enamel fabrication: the story of amelogenesis; 19: Clinical correlate: amelogenesis imperfecta; 20: Cementum
21: Clinical correlate: case study of identical twins with cementum and periodontal defects resulting from odontohypophosphatasia22: Dental engineering: tooth regeneration; 23: Clinical correlate: periodontal regeneration; 24: Clinical correlate: natural tooth regeneration; 25: Clinical correlate: regenerative endodontics in an immature tooth with pulpal necrosis and periapical pathosis; SECTION 3: Bones and teeth; 26: Bone and tooth interface: periodontal ligament; 27: Clinical correlate: two cases of destructive periodontal disease
28: Periodontal disease and inflammation-induced bone remodeling29: Clinical correlate: endodontic lesions; 30: Biomechanics of teeth in bone: function, movement, and prosthetic rehabilitation; 31: Clinical correlate: biomechanics of teeth in bone; 32: Impact of metabolic bone disease on craniofacial bones and teeth; 33: Clinical correlate: renal osteodystrophy; 34: Mineral metabolism and its impact on craniofacial bones and teeth; 35: Clinical correlate: mineral metabolism and disruption of dentoalveolar development in a case of craniometaphyseal dysplasia (CMD)
36: Sun, nutrition, and the mineralization of bones and teeth37: Clinical correlate: vitamin D deficiency; 38: Impact of therapeutic modalities on craniofacial bones and teeth; 39: Clinical correlate: osteoradionecrosis of the jaws (ORN); Index

Sommario/riassunto

Mineralized Tissues in Oral and Craniofacial Science is a major comprehensive update on knowledge in the field of mineralized tissues in the oral and craniofacial region. Drs. McCauley and Somerman assembled an international team of researchers and clinicians, offering a global perspective on the current knowledge in this field. Basic and clinical correlates reinforce the significance of research to clinical diagnoses and therapies, written in a manner that lends easily to their use for case study teaching venues. Section 1 features the many aspects of bone in the craniofacial reg
