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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

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#### 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

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