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	Titolo	The Dental Pulp : Biology, Pathology, and Regenerative Therapies / / edited by Michel Goldberg
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	ISBN	3-642-55160-2
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	Descrizione fisica	1 online resource (281 p.)
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	Soggetti	Dentistry Stem cells Stem Cell Biology
	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 at the end of each chapters and index.
	Nota di contenuto	PULP BIOLOGY: Pulp Development -- Pulp Anatomy and Characterization of Pulp Cells -- Pulp Extracellular Matrix -- Pulp Vascularization -- Pulp Innervation -- Inflammatory Process in the Dental Pulp -- Pulp Aging: Fibrosis and Calcospherites. PULP PATHOLOGY: Pulp Inflammation: From the Reversible Pulpitis to Pulp Necrosis -- Reactionary and Reparative Dentin -- Genetic Alterations: Dentinogenesis Imperfecta, Dentin Dysplasia -- Pulp Reaction to Dental Materials -- Effects of Bisphenol A on the Dental Pulp -- Effects on Pulp of Fluorosis, Dioxide and Other Toxic Agents. PULP REPAIR AND REGENERATION: Experimental in vivo Approaches of Pulp Regeneration -- Pulp Stem Cells – Niches of Stem Cells -- Regeneration of a Living Pulp -- Scaffolds for pulp repair and regeneration.- Endodontic Substitute: Induced Pulp Mineralization.
	Sommario/riassunto	This book provides a detailed update on our knowledge of dental pulp and regenerative approaches to therapy. It is divided into three parts. The pulp components are first described, covering pulp cells, extracellular matrix, vascularization, and innervation as well as pulp development and aging. The second part is devoted to pulp pathology and includes descriptions of the differences between reactionary and reparative dentin, the genetic alterations leading to dentinogenesis

imperfecta and dentin dysplasia, the pulp reaction to dental materials, adverse impacts of bisphenol A, and the effects of fluorosis, dioxin, and other toxic agents. The final part of the book focuses on pulp repair and regeneration. It includes descriptions of various in vitro and in vivo (animal) experimental approaches, definition of the pulp stem cells with special focus on the stem cell niches, discussion of the regeneration of a living pulp, and information on new strategies that induce pulp mineralization.