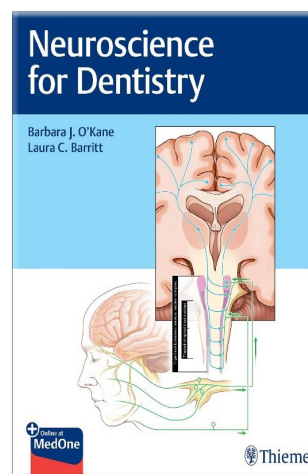


Neuroscience for Dentistry

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Books Review

Associate Professor Barbara J. O'Kane and Professor Laura C. Barritt from the Department of Oral Biology at the School of Dentistry, Creighton University, Omaha, NE, USA have created the book entitled *Neuroscience for Dentistry* aimed at future dentists.

The book provides clear and comprehensive coverage from a dental perspective of the motor, sensory, and autonomic innervation of the head and neck pathways, as well as the fundamentals of orofacial pain biology and management, masticatory function, taste, and proprioceptive input to the temporomandibular joint (TMJ) and teeth.

To better understand the orofacial region, the authors divided the book in two parts, Part A - Basic Neuroscience and Part B - Orofacial Neuroscience in 27 chapters.

Part A has four units which provide an overview of the general neuroanatomy of the Central Nervous System (organization, development, neurohistology and neurophysiology), Gross Anatomy of Brain and Spinal Cord (gross topography and blood supply of the brain, ventricles and cerebrospinal fluid, the meninges, cranial nerves and gross anatomy of the spinal cord), Sensory Systems (anatomical receptors and nerve fibers, somatosensory pathways of the body and head, pain, special senses), Motor Systems (direct activation pathways, indirect activation pathways and integrated systems) being the subject of study for all medical students enrolled in a first-year neuroscience course.

Part B has three units focusing specifically on the Review of Orofacial Structures and Tissues (development and organization of oropharyngeal region, trigeminal and facial nerves, glossopharyngeal, vagus and hypoglossal nerves, neuromuscular control of mastication, swallowing and speech), Dental-Related Structures (temporomandibular joint, salivary glands and teeth) and Orofacial Pain and Dental Anesthesia by Intraoral Injection.

Richly illustrated and concisely written, each chapter includes an introductory overview and learning objectives.

The *Neuroscience of Dentistry* provides fundamental knowledge of the neuroscience of the orofacial region, making it an indispensable resource for dental students, dental hygiene students, and oral maxillofacial surgery residents.

This book includes free access to a digital copy at <https://medone.thieme.com>.

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The Books Review is drafted in the reviewer's sole wording and illustrates his opinions