

Review Article

[Antibacterial Nanoparticles in Endodontics: A Review](#)

Annie Shrestha, Anil Kishen

[Association between Systemic Diseases and Apical Periodontitis](#)

Navid Khalighinejad, M. Reza Aminoshariae, Anita Aminoshariae, James C. Kulild, Andre Mickel, Ashraf F. Fouad

Clinical Research

[The Assessment and Management of External Cervical Resorption with Periapical Radiographs and Cone-beam Computed Tomography: A Clinical Study](#)

Kreena Patel, Francesco Mannocci, Shanon Patel

[Factors Associated with Apical Periodontitis: A Multilevel Analysis](#)

Farah Eziana Hussein, Amy Kia Cheen Liew, Roza Anon Ramlee, Dalia Abdullah, Bun San Chong

[Cost-effectiveness of Single- Versus Multistep Root Canal Treatment](#)

Falk Schwendicke, Gerd Göstemeyer

[How Effective Is Supplemental Intra-septal Anesthesia in Patients with Symptomatic Irreversible Pulpitis?](#)

Stephen Webster Jr., Melissa Drum, Al Reader, Sara Fowler, John Nusstein, Mike Beck

[Effect of Sodium Bicarbonate Buccal Infiltration on the Success of Inferior Alveolar Nerve Block in Mandibular First Molars with Symptomatic Irreversible Pulpitis: A Prospective, Randomized Double-blind Study](#)

Masoud Saatchi, Ali Reza Farhad, Naghmeh Shenasa, Saeideh Karimi Haghighi

[The Effect of Maxillary First Molar Root Length on the Success Rate of Buccal Infiltration Anesthesia](#)

Ehsan Moradi Askari, Masoud Parirokh, Nouzar Nakhaee, Hamid Reza Hosseini, Paul V. Abbott

[Heat Shock 70 Protein Genes and Genetic Susceptibility to Apical Periodontitis](#)

Kanwal Maheshwari, Renato M. Silva, Leticia Guajardo-Morales, Gustavo P. Garlet, Alexandre R. Vieira, Ariadne Letra

[Periapical Microsurgery: Can Ultrasonic Root-end Preparations Clinically Create or Propagate Dental Defects?](#)

Peter Z. Tawil

Regenerative Endodontics

[Regenerative Endodontic Procedures for Traumatized Teeth after Horizontal Root Fracture, Avulsion, and Perforating Root Resorption](#)

Tarek Mohamed A. Saoud, Sonali Mistry, Bill Kahler, Asgeir Sigurdsson, Louis M. Lin

[Effects of Adenosine Triphosphate on Proliferation and Odontoblastic Differentiation of Human Dental Pulp Cells](#)

Wei Wang, Xiaosong Yi, Yanfang Ren, Qiufei Xie

[Triple Antibiotic Polymer Nanofibers for Intracanal Drug Delivery: Effects on Dual Species Biofilm and Cell Function](#)

Divya Pankajakshan, Maria T.P. Albuquerque, Joshua D. Evans, Malgorzata M. Kamocka, Richard L. Gregory, Marco C. Bottino

Basic Research

Biology

[Capsaicin-sensitive Innervation Modulates the Development of Apical Periodontitis](#)

Obadah N. Austah, Nikita B. Ruparel, Michael A. Henry, Roberto J. Fajardo, James E. Schmitz, Anibal Diogenes

[Sodium Hypochlorite Inactivates Lipoteichoic Acid of *Enterococcus faecalis* by Deacylation](#)

Sun Woong Hong, Jung Eun Baik, Seok-Seong Kang, Kee-Yeon Kum, Cheol-Heui Yun, Seung Hyun Han

[Association between Odontogenic Conditions and Maxillary Sinus Disease: A Study Using Cone-beam Computed Tomography](#)

Eduarda Helena Leandro Nascimento, Maria Luiza A. Pontual, Andrea A. Pontual, Deborah Q. Freitas, Danyel E. Cruz Perez, Flávia M.M. Ramos-Perez

[Osteoprotegerin-Knockout Mice Developed Early Onset Root Resorption](#)

Yi Liu, Haiming Du, Yunfei Wang, Mengmeng Liu, Shijian Deng, Linlin Fan, Lili Zhang, Yao Sun, Qi Zhang

[Biocompatibility Evaluation of EndoSequence Root Repair Paste in the Connective Tissue of Rats](#)

Nessrin A. Taha, Rima A. Safadi, Manal S. Alwedaie

Technology

[Properties of Tricalcium Silicate Sealers](#)

Issam Khalil, Alfred Naaman, Josette Camilleri

[Cyclic Fatigue Resistance of Reciproc, WaveOne, and WaveOne Gold Nickel-Titanium Instruments](#)

Taha Özyürek

[Scouting Ability of 4 Pathfinding Instruments in Moderately Curved Molar Canals](#)

Gustavo De-Deus, Felipe Gonçalves Belladonna, Erick Miranda Souza, Vanessa de Oliveira Alves, Emmanuel João Nogueira Leal Silva, Evaldo Rodrigues, Marco Aurélio Versiani, Carlos Eduardo da Silveira Bueno

[Uncontrolled Removal of Dentin during *In Vitro* Ultrasonic Irrigant Activation in Curved Root Canals](#)

Anastasios Retsas, Anastasios Koursoumis, Nestor Tzimpoulas, Christos Boutsoukis

[Effect of Instrument Design and Access Outlines on the Removal of Root Canal Obturation Materials in Oval-shaped Canals](#)

Tuomas K. Niemi, Melissa A. Marchesan, Adam Lloyd, Robert J. Seltzer

[Comparison of Cyclic Fatigue Resistance of ProGlider and One G Glide Path Files](#)

Gülşah Uslu, Taha Özyürek, Uğur İnan