

Review Article

[Characterization of Odontoblast-like Cell Phenotype and Reparative Dentin Formation *In Vivo*: A Comprehensive Literature Review](#)

Dimitrios Tziafas

Clinical Research

[Hospital-based Emergency Department Visits with Periapical Abscess: Updated Estimates from 7 Years](#)

Sankeerth Rampa, Allareddy Veeratrishul, Marianne Raimondo, Christine Connolly, Veerasathpurush Allareddy, Romesh P. Nalliah

[Anesthetic Efficacy of Intranasal 3% Tetracaine plus 0.05% Oxymetazoline \(Kovanaze\) in Maxillary Teeth](#)

Jeremy Capetillo, Melissa Drum, Al Reader, Sara Fowler, John Nusstein, Mike Beck

[Knowledge and Practices of Family and Emergency Physicians in Managing Nontraumatic Dental Conditions: A Case-based Survey](#)

Ralph Dana, Calvin D. Torneck, Karl Iglar, Nima Laghapour Lighvan, Carlos Quiñonez, Amir Azarpazhooh

Regenerative Endodontics

[Regenerative Endodontics: A Scientometric and Bibliometric Analysis](#)

Sayna Shamszadeh, Saeed Asgary, Ali Nosrat

[The Effects of EDTA on Blood Clot in Regenerative Endodontic Procedures](#)

Peerapohn Taweewattanapaisan, Jeeraphat Jantararat, Puey Ounjai, Kajohnkiart Janebodin

[Healing Capacity of Autologous Bone Marrow-derived Mesenchymal Stem Cells on Partially Pulpotomized Dogs' Teeth](#)

Mona H. El-Zekrid, Salah H. Mahmoud, Fawzy A. Ali, Mohamed E. Helal, Mohammed E. Grawish

Basic Research

Biology

[The Susceptibility to Calcium Hydroxide Modulated by the Essential *walR* Gene Reveals the Role for *Enterococcus faecalis* Biofilm Aggregation](#)

Shizhou Wu, Yunjie Liu, Hui Zhang, Lei Lei

[Microbiome of Deep Dentinal Caries from Reversible Pulpitis to Irreversible Pulpitis](#)

Jinxin Zheng, Zhou Wu, Kaijun Niu, Yanan Xie, Xiaoli Hu, Jieni Fu, Dongtao Tian, Kaiyu Fu, Bo Zhao, Weiyang Kong, Cuicui Sun, Ligeng Wu

[Lactobacillus plantarum Lipoteichoic Acid Inhibits Oral Multispecies Biofilm](#)

A. Reum Kim, Ki Bum Ahn, Cheol-Heui Yun, Ok-Jin Park, Hiran Perinpanayagam, Yeon-Jee Yoo, Kee-Yeon Kum, Seung Hyun Han

Technology

[The Effect of Endodontic Access Cavities on Fracture Resistance of First Maxillary Molar Using the Extended Finite Element Method](#)

Yiyi Zhang, Yuxuan Liu, Yahu She, Ye Liang, Fei Xu, Changyun Fang

[Removal of Calcium Hydroxide from Artificial Grooves in Straight Root Canals: Sonic Activation Using EDDY Versus Passive Ultrasonic Irrigation and XPEndo Finisher](#)

David Donnermeyer, Hendrik Wyrsh, Sebastian Bürklein, Edgar Schäfer

[Guided Endodontics versus Conventional Access Cavity Preparation: A Comparative Study on Substance Loss Using 3-dimensional-printed Teeth](#)

Thomas Connert, Ralf Krug, Florin Eggmann, Isabel Emsermann, Ashraf ElAyouti, Roland Weiger, Sebastian Köhl, Gabriel Krastl

[Influence of Adjuncts to Irrigation in the Disinfection of Large Root Canals](#)

Parnwad Sasanakul, Ruchanee Salingcamboriboon Ampornaramveth, Pavena Chivatxaranukul

[Evaluation of XP-endo Shaper, Reciproc Blue, and ProTaper Universal NiTi Systems on Dentinal Microcrack Formation Using Micro-Computed Tomography](#)

Çağman Aksoy, Elif Yıldız Keriş, Sis Darendeliler Yaman, Mert Ocak, Ferhat Geneci, Hakan Hamdi Çelik

Case Report/Clinical Techniques

[Complete Healing of a Large Cystic Lesion Following Root Canal Treatment with Concurrent Surgical Drainage: A Case Report with 14-Year Follow-Up](#)

Yong-Sik Cho, Il-Young Jung

[Multiple Cervical Root Resorption in a Young Adult Female Previously Treated with Chemotherapy: A Case Report](#)

Marc Llavyol, Montserrat Pons, Maria Lluisa Ballester, Esther Berástegui