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 Jantarat, 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 Wyrsch, 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 Kühl, Gabriel Krastl

Influence of Adjuncts to Irrigation in the Disinfection of Large Root Canals
Parnwad Sasanakul, Ruchanee Saliangcariboriboon 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 Yıldızer Keriş, Sis Darendeliler Yaman, Mert Oacak, Ferhat Geneclı, 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 Llavayol, Montserrat Pons, Maria Lluisa Ballester, Esther Berástegui