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[Association between Apical Periodontitis and Smoking](#) Roger Keller Celeste, Maximiliano Schünke Gomes

[Reply to Drs Celeste and Gomes](#) Juan J. Segura-Egea

## Editorial

[Journal of Endodontics: New Guidelines, New Directions](#) Ashraf F. Fouad

## CONSORT Randomized Clinical Trial

[Effect of Premedication with Ibuprofen and Dexamethasone on Success Rate of Inferior Alveolar Nerve Block for Teeth with Asymptomatic Irreversible Pulpitis: A Randomized Clinical Trial](#) Shahriar Shahi, Hadi Mokhtari, Saeed Rahimi, Hamid Reza Yavari, Shima Narimani, Majid Abdolrahimi, Saeed Nezafati

## Review Article

[Current Challenges and Concepts of the Thermomechanical Treatment of Nickel-Titanium Instruments](#) Ya Shen, Hui-min Zhou, Yu-feng Zheng, Bin Peng, Markus Haapasalo

## Clinical Research

[Postoperative Pain after Foraminal Enlargement in Anterior Teeth with Necrosis and Apical Periodontitis: A Prospective and Randomized Clinical Trial](#) Emmanuel João Nogueira Leal Silva, Karyne Menaged, Natasha Ajuz, Maria Rachel Figueiredo Penalva Monteiro, Tauby de Souza Coutinho-Filho

[Association between Sickle Cell Anemia and Pulp Necrosis](#) Cyrene Piazeria Silva Costa, Erika Bárbara Abreu Fonseca Thomaz, Soraia de Fátima Carvalho Souza

[Subclinical Failures of Direct Pulp Capping of Human Teeth by Using a Dentin Bonding System](#) Gerluza Aparecida Borges Silva, Elisandra Gava, Lincoln Dias Lanza, Carlos Estrela, José Bento Alves

[Molecular Microbiological Evaluation of Passive Ultrasonic Activation as a Supplementary Disinfecting Step: A Clinical Study](#) Simone S.M. Paiva, José F. Siqueira, Isabela N. Rôças, Flávia L. Carmo, Deborah C.A. Leite, Dennis C. Ferreira, Caio T.C. Rachid, Alexandre S. Rosado

## Basic Research: Biology

[Preliminary Study on Dental Pulp Stem Cell-mediated Pulp Regeneration in Canine Immature Permanent Teeth](#) Yuanyuan Wang, Yuming Zhao, Weiqian Jia, Jie Yang, Lihong Ge

[Pedialyte Promotes Periodontal Ligament Cell Survival and Motility](#) Sara Macway-Gomez, Thomas E. Lallier

[The Butterfly Effect: An Investigation of Sectioned Roots](#) Assil A. Russell, Nicholas P. Chandler, Catharina Hauman, Amna Y. Siddiqui, Geoffrey R. Tompkins

[DNA Binding to Hydroxyapatite: A Potential Mechanism for Preservation of Microbial DNA](#) Malin Brundin, David Figdor, Göran Sundqvist, Ulf Sjögren

[Fluocinolone Acetonide Promotes the Proliferation and Mineralization of Dental Pulp Cells](#) Zhongning Liu, Ting Jiang, Yixiang Wang, Xinzhi Wang

[Increased Expression of EphA7 in Inflamed Human Dental Pulp](#) Yingchun Dong, Weidong Lan, Weimei Wu, Zheng Huang, Junjie Zhao, Libo Peng, Jiandong Wang

[Usefulness of Controlled Release of Growth Factors in Investigating the Early Events of Dentin-pulp Regeneration](#) Sylvie Mathieu, Charlotte Jeanneau, Nida Sheibat-Othman, Nader Kalaji, Hatem Fessi, Imad About

[The Survival Role of Peroxisome Proliferator-activated Receptor Gamma Induces Odontoblast Differentiation against Oxidative Stress in Human Dental Pulp Cells](#) Young-Hee Lee, Yu-Mi Kang, Mi-Ja Heo, Go-Eun Kim, Govinda Bhattarai, Nan-Hee Lee, Mi-Kyung Yu, Ho-Keun Yi

[The Effect of Mineral Trioxide Aggregate on Odontogenic Differentiation in Dental Pulp Stem Cells](#) Min-Seock Seo, Kyung-Gyun Hwang, Jaeseon Lee, Hyongbum Kim, Seung-Ho Baek

## Technology

[Biofilm Formation within the Interface of Bovine Root Dentin Treated with Conjugated Chitosan and Sealer Containing Chitosan Nanoparticles](#) Luis DaSilva, Yoav Finer, Shimon Friedman, Bettina Basrani, Anil Kishen

[Self-Adjusting File Cleaning-Shaping-Irrigation System Improves Root-filling Bond Strength](#) Gustavo De-Deus, Thais Accorsi-Mendonça, Leandro de Carvalho e Silva, Carlos Augusto de Souza Leite, Diogo da Silva, Edson Jorge Lima Moreira

[Influence of Continuous or Reciprocating Motion on Cyclic Fatigue Resistance of 4 Different Nickel-Titanium Rotary Instruments](#) Eugenio Pedullà, Nicola M. Grande, Gianluca Plotino, Gianluca Gambarini, Ernesto Rapisarda

[Effects of Self-Adjusting File, Mtwo, and ProTaper on the Root Canal Wall](#) Ellemieke S. Hin, Min-Kai Wu, Paul R. Wesselink, Hagay Shemesh

[Anatomic Study of the Buccal Root with Furcation Groove and Associated Root Canal Shape in Maxillary First Premolars by Using Micro-Computed Tomography](#) Jun Li, Ling Li, Yihuai Pan

[Effect of Medicaments Used in Endodontic Regeneration Technique on the Chemical Structure of Human Immature Radicular Dentin: An \*In Vitro\* Study](#) Ghaeth H. Yassen, Tien-Min G. Chu, George Eckert, Jeffrey A. Platt

[Evaluation of Cytotoxicity and Physicochemical Properties of Calcium Silicate-based Endodontic Sealer MTA Fillapex](#) Emmanuel J.N.L. Silva, Tiago P. Rosa, Daniel R. Herrera, Rogério C. Jacinto, Brenda P.F.A. Gomes, Alexandre A. Zaia

[Comparative Study of 6 Rotary Nickel-Titanium Systems and Hand Instrumentation for Root Canal Preparation in Severely Curved Root Canals of Extracted Teeth](#) Davut Çelik, Tamer Taşdemir, Kürşat Er

[Limitations of Push-out Test in Bond Strength Measurement](#) Weng-Pin Chen, Yen-Yin Chen, Shih-Hao Huang, Chun-Pin Lin

## Case Report/Clinical Techniques

[Pulp Revascularization of Immature Dens Invaginatus with Periapical Periodontitis](#) Jie Yang, Yuming Zhao, Man Qin, Lihong Ge