



## Clinical Research

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### [One-Visit Versus Two-Visit Root Canal Treatment: Effectiveness in the Removal of Endotoxins and Cultivable Bacteria](#)

Ana Claudia C. Xavier, Frederico C. Martinho, Adriana Chung, Luciane D. Oliveira, Antônio O.C. Jorge, Márcia C. Valera, Cláudio A.T. Carvalho

### [Predictive Values of Thermal and Electrical Dental Pulp Tests: A Clinical Study](#)

Carlos E. Villa-Chávez, Nuria Patiño-Marín, Juan P. Loyola-Rodríguez, Norma V. Zavala-Alonso, Gabriel A. Martínez-Castañón, Carlo E. Medina-Solís

### [Is a Volume of 3.6 mL Better than 1.8 mL for Inferior Alveolar Nerve Blocks in Patients with Symptomatic Irreversible Pulpitis?](#)

Sara Fowler, AI Reader

### [A Micro-Computed Tomographic Analysis of Wall Thickness of C-shaped Canals in Mandibular First Premolars](#)

Yong-chun Gu, Yan-ping Zhang, Zhen-gui Liao, Xue-dong Fei

## Basic Research: Biology

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### [Histologic Examination of Condensing Osteitis in Cadaver Specimens](#)

T.L. Green, Richard E. Walton, Jeffrey M. Clark, David Maixner

### [The Effect of Dentin on the Pulp Tissue Dissolution Capacity of Sodium Hypochlorite and Calcium Hydroxide](#)

Iris Slutzky-Goldberg, Aiham Hanut, Shlomo Matalon, Valery Baev, Hagay Slutzky

### [The Expression of Macrophage Migration Inhibitory Factor Is Correlated with Receptor Activator of Nuclear Factor Kappa B Ligand in Induced Rat Periapical Lesions](#)

Lingshuang Liu, Bin Peng

### [Immunoexpression of Interleukin 17, Transforming Growth Factor \$\beta\$ 1, and Forkhead Box P3 in Periapical Granulomas, Radicular Cysts, and Residual Radicular Cysts](#)

Ana Luiza Dias Leite de Andrade, Cassiano Francisco Weege Nonaka, Manuel Antonio Gordón-Núñez, Roseana de Almeida Freitas, Hébel Cavalcanti Galvão

### [Nuclear Expression of p27Kip1 Is Associated with \*In Vivo\* Differentiation of Adult Human Odontoblasts](#)

Franz-Josef Klinz, Yüksel Korkmaz, Britta Cho, Wolfgang H.M. Raab, Klaus Addicks

### [Glycol Chitin-based Thermoresponsive Hydrogel Scaffold Supplemented with Enamel Matrix Derivative Promotes Odontogenic Differentiation of Human Dental Pulp Cells](#)

Su-Jung Park, Zhengzheng Li, In-Nam Hwang, Kang Moo Huh, Kyung-San Min

### [Lipopolysaccharide-binding Protein Inhibits Toll-like Receptor 2 Activation by Lipoteichoic Acid in Human Odontoblast-like Cells](#)

Florence Carrouel, Marie-Jeanne Staquet, Jean-François Keller, Caroline Baudouin, Philippe Msika, Françoise Bleicher, Brigitte Alliot-Licht, Jean-Christophe Farges

### [Conditioned Medium from Periapical Follicle Cells Induces the Odontogenic Differentiation of Stem Cells from the Apical Papilla \*In Vitro\*](#)

Jiayuan Wu, Qian Jia, Wenxi He, Jianguo Liu, Lipeng Hou, Jing Zhang, Zhongying Niu, Longxing Ni

### [Role of the Extracellular Signal-regulated Kinase 1/2 Pathway in Driving Tricalcium Silicate-](#)

## [induced Proliferation and Biom mineralization of Human Dental Pulp Cells \*In Vitro\*](#)

Rong Du, Tiantian Wu, Wenjuan Liu, Lifan Li, Long Jiang, Weiwei Peng, Jiang Chang, Yaqin Zhu

# Technology

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## [The Biological Performance of Calcium Hydroxide-loaded Microcapsules](#)

Bing Han, Xiaoyan Wang, Jiguang Liu, Fuxin Liang, Xiaozhong Qu, Zhenzhong Yang, Xuejun Gao

## [Antimicrobial Effect of a Modified Vanadium Chloroperoxidase on \*Enterococcus faecalis\* Biofilms at Root Canal pH](#)

Ilna F. Persoon, Michel A. Hoogenkamp, Aleksandra Bury, Paul R. Wesselink, Aloysius F. Hartog, Ronald Wever, Wim Crielaard

## [Sodium Hypochlorite with Reduced Surface Tension Does Not Improve \*In Situ\* Pulp Tissue Dissolution](#)

Gustavo De-Deus, Marco André de Berredo Pinho, Claudia Reis, Sandra Fidel, Erick Souza, Matthias Zehnder

## [Correlative Bacteriologic and Micro-computed Tomographic Analysis of Mandibular Molar Mesial Canals Prepared by Self-Adjusting File, Reciproc, and Twisted File Systems](#)

José F. Siqueira, Flávio R.F. Alves, Marco A. Versiani, Isabela N. Rôças, Bernardo M. Almeida, Mônica A.S. Neves, Manoel D. Sousa-Neto

## [A Comparison of Dentin Cutting Efficiency of 4 Round-tipped Ultrasonic Instruments](#)

Eric Cottle, James C. Kulild, Mary P. Walker

## [The Incidence of Root Microcracks Caused by 3 Different Single-file Systems versus the ProTaper System](#)

Rui Liu, Ben Xiang Hou, Paul R. Wesselink, Min-Kai Wu, Hagay Shemesh

## [Comparison of Efficacy of Pulverization and Sterile Paper Point Techniques for Sampling Root Canals](#)

Kenny T. Tran, Mahmoud Torabinejad, Shahrokh Shabahang, Bonnie Retamozo, Raydolfo M. Apécio, Jung-Wei Chen

## [Micro-computed Tomography Study of Oval-shaped Canals Prepared with the Self-adjusting File, Reciproc, WaveOne, and ProTaper Universal Systems](#)

Marco Aurélio Versiani, Graziela Bianchi Leoni, Livi Steier, Gustavo De-Deus, Simone Tassani, Jesus Djalma Pécora, Manoel Damião de Sousa-Neto

## [Reciprocating Root Canal Technique Induces Greater Debris Accumulation Than a Continuous Rotary Technique as Assessed by 3-Dimensional Micro-computed Tomography](#)

Jonathan P. Robinson, Philip J. Lumley, Paul R. Cooper, Liam M. Grover, A. Damien Walmsley

## [An Evaluation of Setting Time of Mineral Trioxide Aggregate and EndoSequence Root Repair Material in the Presence of Human Blood and Minimal Essential Media](#)

Trisha Charland, Gary R. Hartwell, Craig Hirschberg, Reena Patel

# Case Report/Clinical Techniques

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## [Endodontic and Surgical Treatment of Root Damage Caused by Orthodontic Miniscrew Placement](#)

Geeyoung Lim, Kee-Deog Kim, Wonse Park, Bock-Young Jung, Nan-Sim Pang

## [Clinical, Radiographic, and Histological Observation of a Human Immature Permanent Tooth with Chronic Apical Abscess after Revitalization Treatment](#)

Emi Shimizu, Domenico Ricucci, Jeffrey Albert, Adel S. Alobaid, Jennifer L. Gibbs, George T.-J. Huang, Louis M. Lin

## [A Case of Coinfection in a Chronic Maxillary Sinusitis of Odontogenic Origin: Identification of \*Dialister pneumosintes\*](#)

Lorenzo Drago, Christian Vassena, Alberto M. Saibene, Massimo Del Fabbro, Giovanni Felisati

## [Oral Cutaneous Sinus Tract, Vertical Root Fracture, and Bisphosphonate-related Osteonecrosis: A Case Report](#)

Ronald Wigler, Nelly Steinbock, Tal Berg