

## Clinical Research

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### [Incidence of Cholesterol in Periapical Biopsies among Adolescent and Elderly Patients](#)

Iris Slutzky-Goldberg, Valery Baev, Alexander Volkov, Avi Zini, Igor Tsesis

### [Rubber Dam Use during Post Placement Influences the Success of Root Canal-treated Teeth](#)

Joshua Goldfein, Chad Speirs, Matthew Finkelman, Robert Amato

### [Evaluation of the Reliability and Accuracy of Using Cone-beam Computed Tomography for Diagnosing Periapical Cysts from Granulomas](#)

Jing Guo, James H. Simon, Parish Sedghizadeh, Osman N. Soliman, Travis Chapman, Reyes Enciso

### [Prognostic Factors of Clinical Outcomes in Endodontic Microsurgery: A Prospective Study](#)

Minju Song, Sahng Gyoon Kim, Seung-Jong Lee, Baekil Kim, Euseong Kim

### [MicroRNAs: New Insights into the Pathogenesis of Endodontic Periapical Disease](#)

Linda T. Chan, Sheng Zhong, Afsar Raza Naqvi, Jezrom Self-Fordham, Salvador Nares, Eric Bair, Asma A. Khan

### [Volumetric Changes in Apical Radiolucencies of Endodontically Treated Teeth Assessed by Cone-beam Computed Tomography 1 Year after Orthograde Retreatment](#)

Maria Elissavet Metska, Azin Parsa, Irene Helena Adriana Aartman, Paul Rudolf Wesselink, Ahmet Rifat Ozok

### [The Dynamics of Periapical Lesions in Endodontically Treated Teeth That Are Left without Intervention: A Longitudinal Study](#)

Igor Tsesis, Tomer Goldberger, Silvio Taschieri, Mottie Seifan, Aviad Tamse, Eyal Rosen

### [Morphology of Mandibular First Molars Analyzed by Cone-beam Computed Tomography in a Korean Population: Variations in the Number of Roots and Canals](#)

Sin-Young Kim, Bom Sahn Kim, Jein Woo, Yemi Kim

### [Location and Dimensions of the Mental Foramen: A Radiographic Analysis by Using Cone-beam Computed Tomography](#)

Thomas von Arx, Monika Friedli, Pedram Sendi, Scott Lozanoff, Michael M. Bornstein

### [Micro-Computed Tomography Analysis of the Root Canal Anatomy and Prevalence of Oval Canals in Mandibular Incisors](#)

Marcela Milanezi de Almeida, Norberti Bernardineli, Ronald Ordinola-Zapata, Marcelo Haas Villas-Bôas, Pablo Andrés Amoroso-Silva, Christian Giampietro Brandão, Bruno Martini Guimarães,IVALDO GOMES DE MORAES, Marco Antonio Húngaro-Duarte

### [A Survey of Patients' Preferences for the Treatment of Teeth with Apical Periodontitis](#)

Amir Azarpazhooh, Thuan Dao, Rafael Figueiredo, Murray Krahn, Shimon Friedman

### [Alveolar Bone Width Preservation after Decoronation of Ankylosed Anterior Incisors](#)

Shaul Lin, Dvorah Schwarz-Arad, Malka Ashkenazi

### [Symmetry of Root and Root Canal Morphology of Maxillary and Mandibular Molars in a White Population: A Cone-beam Computed Tomography Study \*In Vivo\*](#)

Gianluca Plotino, Luigi Tocci, Nicola M. Grande, Luca Testarelli, Daniela Messineo, Mario Ciotti, Gary Glassman, Ferdinando D'ambrosio, Gianluca Gambarini

## Basic Research Biology

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### [Histologic Characterization of Engineered Tissues in the Canal Space of Closed-apex Teeth with Apical Periodontitis](#)

João Eduardo Gomes-Filho, Paulo Carvalho Tobias Duarte, Edilson Ervolino, Suely Regina Mogami Bomfim, Caio José Xavier Abimussi, Ludmilla Mota da Silva Santos, Carolina Simonetti Lodi, Sandra Helena Penha De Oliveira, Elói Dezan, Luciano Tavares Angelo Cintra

### [Antiosteoclastogenic Activity of Silicate-based Materials Antagonizing Receptor Activator for Nuclear Factor KappaB Ligand-induced Osteoclast Differentiation of Murine Macrophages](#)

Chi-Jr Hung, Chia-Tze Kao, Yi-Jyun Chen, Ming-You Shie, Tsui-Hsien Huang

### [Influence of 2 Cryopreservation Methods to Induce CCL-13 from Dental Pulp Cells](#)

Su-Jin Ahn, Ji-Hyun Jang, Ji-Sung Seo, Kyu Min Cho, Su-Hee Jung, Hyeon-Woo Lee, Eun-Cheol Kim, Sang Hyuk Park

### [Leptin Receptor Is Up-regulated in Inflamed Human Dental Pulp](#)

Jénifer Martín-González, Antonio Pérez-Pérez, Flora Sánchez-Jiménez, Antonio Carmona-Fernández, Daniel Torres-Lagares, Víctor Sánchez-Margalet, Juan J. Segura-Egea

## Technology

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### [Stress Generation during Self-Adjusting File Movement: Minimally Invasive Instrumentation](#)

Hyeon-Cheol Kim, Sang Yup Sung, Jung-Hong Ha, Michael Solomonov, Jung-Min Lee, Chan-Joo Lee, Byung-Min Kim

### [The Number of Bleaching Sessions Influences Pulp Tissue Damage in Rat Teeth](#)

Luciano Tavares Angelo Cintra, Francine Benetti, Aguinaldo Cândido da Silva Facundo, Luciana Louzada Ferreira, João Eduardo Gomes-Filho, Edilson Ervolino, Vanessa Rahal, André Luiz Fraga Briso

### [Evaluation of a New Nickel-Titanium System to Create the Glide Path in Root Canal Preparation of Curved Canals](#)

Maurizio D'Amario, Mario Baldi, Roberto Petricca, Francesco De Angelis, Rashid El Abed, Camillo D'Arcangelo

### [Cyclic Fatigue Resistance of K3, K3XF, and Twisted File Nickel-Titanium Files under Continuous Rotation or Reciprocating Motion](#)

Juan José Pérez-Higueras, Ana Arias, José C. de la Macorra

### [Effect of Agitation of EDTA with 808-Nanometer Diode Laser on Removal of Smear Layer](#)

Hakan Arslan, Leyla Benan Ayrancı, Ertugrul Karatas, Hüseyin Sinan Topçuoğlu, Muhammet Selim Yavuz, Bertan Kesim

### [Effect of Torsional Loading of Nickel-Titanium Instruments on Cyclic Fatigue Resistance](#)

Gary Shun-Pan Cheung, Seung-Hei Oh, Jung-Hong Ha, Sung Kyo Kim, Se-Hee Park, Hyeon-Cheol Kim

### [Tooth Discoloration after the Use of New Pozzolan Cement \(Endocem\) and Mineral Trioxide Aggregate and the Effects of Internal Bleaching](#)

Ji-Hyun Jang, Minji Kang, Soyeon Ahn, Soyeon Kim, Wooksung Kim, Yaelim Kim, Euseong Kim

### [Evaluation of pH and Calcium Ion Release of a Dual-cure Bisphenol A Ethoxylate Dimethacrylate/Mineral Trioxide Aggregate-based Root-end Filling Material](#)

Giane da Silva Linhares, Maximiliano Sérgio Cenci, César Blaas Knabach, Camila Mizette Oliz, Mariana Antunes Vieira, Anderson Schwingel Ribeiro, César Henrique Zanchi, Rogério Castilho Jacinto

### [The Validity of Cone-beam Computed Tomography in Measuring Root Canal Length Using a Gold Standard](#)

Yu-Hong Liang, Lan Jiang, Chen Chen, Xue-Jun Gao, Paul R. Wesselink, Min-Kai Wu, Hagay Shemesh

### [Physical Properties of AH Plus with Chlorhexidine and Cetrimide](#)

Matilde Ruiz-Linares, Ma Estela Bailón-Sánchez, Pilar Baca, Mariano Valderrama, Carmen María Ferrer-Luque

### [In Vitro Assessment of Torque and Force Generated by Novel ProTaper Next Instruments during Simulated Canal Preparation](#)

Erika S.J. Pereira, Rupinderpal Singh, Ana Arias, Ove A. Peters

[Detection of Vertical Root Fractures in the Presence of Intracanal Metallic Post: A Comparison between Periapical Radiography and Cone-beam Computed Tomography](#)

Rafael Binato Junqueira, Francielle Silvestre Verner, Celso Neiva Campos, Karina Lopes Devito, Antônio Márcio Resende do Carmo

[Antibacterial Efficacy of a Human  \$\beta\$ -Defensin-3 Peptide on Multispecies Biofilms](#)

Jin-Kyung Lee, Seok Woo Chang, Hiran Perinpanayagam, Sang-Min Lim, Yoon-Jeong Park, Seung Hyun Han, Seung-Ho Baek, Qiang Zhu, Kwang-Shik Bae, Kee-Yeon Kum