



Clinical Research

[The Effect of Rubber Dam Usage on the Survival Rate of Teeth Receiving Initial Root Canal Treatment: A Nationwide Population-based Study](#)

Po-Yen Lin, Shih-Hao Huang, Hong-Ji Chang, Lin-Yang Chi

[Root Canal Therapy Reduces Multiple Dimensions of Pain: A National Dental Practice-based Research Network Study](#)

Alan S. Law, Donald R. Nixdorf, Ira Rabinowitz, Gregory J. Reams, James A. Smith, Anibal V. Torres, D. Robert Harris

[Treatment Outcome of Mineral Trioxide Aggregate or Calcium Hydroxide Direct Pulp Capping: Long-term Results](#)

Johannes Mente, Sarah Hufnagel, Meltem Leo, Annemarie Michel, Holger Gehrig, Dimos Panagidis, Daniel Saure, Thorsten Pfeifferle

[Macrophage Cell Activation with Acute Apical Abscess Contents Determined by Interleukin-1 Beta and Tumor Necrosis Factor Alpha Production](#)

Ezilmara L.R. Sousa, Frederico C. Martinho, Fabio R.M. Leite, Gustavo G. Nascimento, Brenda P.F.A. Gomes

[Volumetric Pulp Changes after Orthodontic Treatment Determined by Cone-beam Computed Tomography](#)

Shivanand Venkatesh, Shreya Ajmera, Sanjay V. Ganeshkar

[Direct Pulp Capping after a Carious Exposure Versus Root Canal Treatment: A Cost-effectiveness Analysis](#)

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Basic Research: Biology

[The Effects of Osterix on the Proliferation and Odontoblastic Differentiation of Human Dental Papilla Cells](#)

Guobin Yang, Xiaoyan Li, Guohua Yuan, Pingxian Liu, Mingwen Fan

[Highly Diverse Microbiota in Dental Root Canals in Cases of Apical Periodontitis \(Data of Illumina Sequencing\)](#)

Veiko Vengerfeldt, Katerina Špilka, Mare Saag, Jens-Konrad Preem, Kristjan Oopkaup, Jaak Truu, Reet Mändar

[Iloprost Induces Tertiary Dentin Formation](#)

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[Expression Features of DNA Methylcytosine Dioxygenase Ten-eleven Translocation 1 in Human Dental Pulp Cells](#)

Qimeng Li, Lijia Rao, Deqian Zhang, Qiong Xu

[Osteo-/Odontogenic Differentiation of Induced Mesenchymal Stem Cells Generated through Epithelial–Mesenchyme Transition of Cultured Human Keratinocytes](#)

Jin-Kyu Yi, Shebli Mehrazarin, Ju-Eun Oh, Anu Bhalla, Jenessa Oo, Wei Chen, Min Lee, Reuben H. Kim, Ki-Hyuk Shin, No-Hee Park, Mo K. Kang

[The Role of Integrin \$\alpha\$ v in Proliferation and Differentiation of Human Dental Pulp Cell Response to Calcium Silicate Cement](#)

Chi-Jr Hung, Hsin-I. Hsu, Chi-Chang Lin, Tsui-Hsien Huang, Buor-Chang Wu, Chia-Tze Kao, Ming-You Shie

[Effects of Platelet-rich Plasma and Cell Coculture on Angiogenesis in Human Dental Pulp Stem Cells and Endothelial Progenitor Cells](#)

Xinzhu Li, Jin Hou, Buling Wu, Ting Chen, Aoxiang Luo

[Antifungal Activity of Endosequence Root Repair Material and Mineral Trioxide Aggregate](#)
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Technology

[Evaluation of Effectiveness of Various Irrigating Solutions on Removal of Calcium Hydroxide Mixed with 2% Chlorhexidine Gel and Detection of Orange-brown Precipitate after Removal](#)
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[Comparison of Conventional and New-generation Nickel-Titanium Files in Regard to Their Physical Properties](#)
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[Assessment of the Mechanical Properties of ProTaper Next Nickel-Titanium Rotary Files](#)
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[Effect of Thermal Stresses on the Mechanism of Tooth Pain](#)
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[Zinc Incorporation Improves Biological Activity of Beta-tricalcium Silicate Resin-based Cement](#)
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[Hydration of Biodentine, Theracal LC, and a Prototype Tricalcium Silicate-based Dentin Replacement Material after Pulp Capping in Entire Tooth Cultures](#)
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[The Effect of Larger Apical Preparations in the Danger Zone of Lower Molars Prepared Using the Mtwo and Reciproc Systems](#)
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[Root Canal Preparation of Mandibular Molars with 3 Nickel-Titanium Rotary Instruments: A Micro-Computed Tomographic Study](#)
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[Detection of a Second Mesio Buccal Canal in Maxillary Molars by Swept-source Optical Coherence Tomography](#)
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[Influence of Ferrule, Post System, and Length on Stress Distribution of Weakened Root-filled Teeth](#)
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[Bimix Antimicrobial Scaffolds for Regenerative Endodontics](#)
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Case Report/Clinical Techniques

[Autogenous Premolar Transplantation into Artificial Socket in Maxillary Lateral Incisor Site](#)
João Batista Gagno Intra, Armelindo Roldi, Roberto Carlos Bodart Brandão, Cyntia Rodrigues de Araújo Estrela, Carlos Estrela