

Review Article

[Pulpal Reactions to Orthodontic Force Application in Humans: A Systematic Review](#) Martina von Böhl, Yijin Ren, Piotr S. Fudalej, Anne M. Kuijpers-Jagtman

Clinical Research

[Large-scale Clinical Endodontic Research in The National Dental Practice-Based Research Network: Study Overview and Methods](#) Donald R. Nixdorf, Alan S. Law, John O. Look, D. Brad Rindal, Emily U. Durand, Wenjun Kang, Bonita S. Agee, Jeffrey L. Fellows, Valeria V. Gordan, Gregg H. Gilbert, The National Dental PBRN Collaborative Group

[Comparison of the Effect of Two Endodontic Irrigation Protocols on the Elimination of Bacteria from Root Canal System: A Prospective, Randomized Clinical Trial](#) Christopher Beus, Kamran Safavi, Jeffrey Stratton, Blythe Kaufman

[Bacterial Flora of Dental Periradicular Lesions Analyzed by the 454-Pyrosequencing Technology](#) Mohamed H. Saber, Karen Schwarzberg, Faisal A. Alonaizan, Scott T. Kelley, Parish P. Sedghizadeh, Mike Furlan, Thomas A. Levy, James H. Simon, Jørgen Slots

Basic Research Biology

[Identification and Characterization of Side Population Cells from Adult Human Dental Pulp after Ischemic Culture](#) Jinming Wang, Xi Wei, Junqi Ling, Yijun Huang, Qimei Gong, Yongbiao Huo

[Prolyl Hydroxylase Inhibitors Increase the Production of Vascular Endothelial Growth Factor in Dental Pulp-derived Cells](#) Heinz-Dieter Müller, Barbara Cvikl, Reinhard Gruber, Georg Watzek, Hermann Agis

[Effects of Homeobox Gene Distal-less 3 on Proliferation and Odontoblastic Differentiation of Human Dental Pulp Cells](#) Xiaoyan Li, Guobin Yang, Mingwen Fan

[CRISPR-Cas, a Prokaryotic Adaptive Immune System, in Endodontic, Oral, and Multidrug-resistant Hospital-acquired *Enterococcus faecalis*](#) Katie M. Burley, Christine M. Sedgley

Technology

[Efficacy of ProTaper Universal Rotary Retreatment System for Gutta-percha Removal from Oval Root Canals: A Micro-Computed Tomography Study](#) Jingzhi Ma, Ahmed Jawad Al-Ashaw, Ya Shen, Yuan Gao, Yan Yang, Chengfei Zhang, Markus Haapasalo

[In Vitro Comparison of Cyclic Fatigue Resistance of ProTaper, WaveOne, and Twisted Files](#) Ricardo Castelló-Escrivá, Teresa Alegre-Domingo, Vicente Faus-Matoses, Sophie Román-Richon, Vicente J. Faus-Llácer

[Wetting Properties and Critical Micellar Concentration of Benzalkonium Chloride Mixed in Sodium Hypochlorite](#) Frédéric Bukiet, Guillaume Couderc, Jean Camps, Hervé Tassery, Frederic Cuisinier, Imad About, Anne Charrier, Nadine Candoni

[Synergistic Effect of Microbubble Emulsion and Sonic or Ultrasonic Agitation on Endodontic Biofilm *in Vitro*](#) Andrew Halford, Claus-Dieter Ohl, Amir Azarpazhooh, Bettina Basrani, Shimon Friedman, Anil Kishen

[Mechanical Properties of Controlled Memory and Superelastic Nickel-Titanium Wires Used in the Manufacture of Rotary Endodontic Instruments](#) Hui-min Zhou, Ya Shen, Wei Zheng, Li Li, Yu-feng Zheng, Markus Haapasalo

Case Report/Clinical Techniques

[Orbital Abscess during Endodontic Treatment: A Case Report](#) Eduardo Henrique Pantosso de Medeiros, André Oliveira Pepato, Cássio Edvard Sverzut, Alexandre Elias Trivellato