

CONSORT Randomized Clinical Trial

[Does Liposomal Bupivacaine \(Exparel\) Significantly Reduce Postoperative Pain/Numbness in Symptomatic Teeth with a Diagnosis of Necrosis? A Prospective, Randomized, Double-blind Trial](#)

Brandon Glenn, Melissa Drum, Al Reader, Sara Fowler, John Nusstein, Mike Beck

[Antibacterial Effectiveness of 2 Root Canal Irrigants in Root-filled Teeth with Infection: A Randomized Clinical Trial](#)

Homan Zandi, Renata C.V. Rodrigues, Anne K. Kristoffersen, Morten Enersen, Ibrahim Mdala, Dag Ørstavik, Isabela N. Rôças, José F. Siqueira Jr.

[Comparison of the Anesthetic Efficacy of Mepivacaine and Lidocaine in Patients with Irreversible Pulpitis: A Double-blind Randomized Clinical Trial](#)

Renata Pieroni Visconti, Isabel Peixoto Tortamano, Inês Aparecida Buscariolo

Clinical Research

[Survival Rate of Teeth with a C-shaped Canal after Intentional Replantation: A Study of 41 Cases for up to 11 Years](#)

Youngjune Jang, Seung-Jong Lee, Tai-Cheol Yoon, Byoung-Duck Roh, Euseong Kim

[Periapical Status of Root-filled Teeth Restored with Composite, Amalgam, or Full Crown Restorations: A Cross-sectional Study of a Swedish Adult Population](#)

Victoria S. Dawson, Kerstin Petersson, Eva Wolf, Sigvard Åkerman

[Evaluation of the Reliability of Cone-beam Computed Tomography Scanning and Electronic Apex Locator Measurements in Working Length Determination of Teeth with Large Periapical Lesions](#)

Yakup Üstün, Tuğrul Aslan, Ahmet Ercan Şekerci, Burak Sağsen

[Influences of 432 Hz Music on the Perception of Anxiety during Endodontic Treatment: A Randomized Controlled Clinical Trial](#)

Luca Di Nasso, Andrea Nizzardo, Riccardo Pace, Felicita Pierleoni, Gabriella Pagavino, Valentina Giuliani

Regenerative Endodontics

[Regenerative Endodontic Therapy in a Single Visit Using Platelet-rich Plasma and Biodentine in Necrotic and Asymptomatic Immature Molar Teeth: A Report of 3 Cases](#)

Gamze Topçuoğlu, Hüseyin Sinan Topçuoğlu

[Adrenomedullin Promotes the Proliferation and Inhibits Apoptosis of Dental Pulp Stem Cells Involved in Divergence Pathways](#)

Qiang Zhu, Gang Tian, Zhen Tang, Jianyong Gao, Yinghui Tan

[Calcium Hydroxide-induced Proliferation, Migration, Osteogenic Differentiation, and Mineralization via the Mitogen-activated Protein Kinase Pathway in Human Dental Pulp Stem Cells](#)

Luoping Chen, Lisha Zheng, Jingyi Jiang, Jinpeng Gui, Lingyu Zhang, Yan Huang, Xiaofang Chen, Jing Ji, Yubo Fan

[EphrinB2 Stabilizes Vascularlike Structures Generated by Endothelial Cells and Stem Cells from Apical Papilla](#)
Changyong Yuan, Penglai Wang, Shaoyue Zhu, Ting Zou, Shuai Wang, Jianguang Xu, Boon Chin Heng, Anibal Diogenes, Chengfei Zhang

[Assessment and Quantification of Noncollagenic Matrix Proteins Released from Human Dentin Powder Incorporated into a Silated Hydroxypropylmethylcellulose Biomedical Hydrogel](#)
Davy Aubeux, Laurent Beck, Pierre Weiss, Jérôme Guicheux, Bénédicte Enkel, Fabienne Pérez, Stéphane Simon

[Complement C3a Mobilizes Dental Pulp Stem Cells and Specifically Guides Pulp Fibroblast Recruitment](#)
Pierre Rufas, Charlotte Jeanneau, Charlotte Rombouts, Patrick Laurent, Imad About

[Effects of a Bioactive Scaffold Containing a Sustained Transforming Growth Factor- \$\beta\$ 1-releasing Nanoparticle System on the Migration and Differentiation of Stem Cells from the Apical Papilla](#)
Craig Bellamy, Suja Shrestha, Calvin Torneck, Anil Kishen

Basic Research

Technology

[Light-emitting Diode Assessment of Dentinal Defects after Root Canal Preparation with Profile, TRUShape, and WaveOne Gold Systems](#)
Marcelo Santos Coelho, Steven J. Card, Peter Z. Tawil

[Residual Microstrain in Root Dentin after Canal Instrumentation Measured with Digital Moiré Interferometry](#)
Helena Lim, Fang-Chi Li, Shimon Friedman, Anil Kishen

[1-year *In Vitro* Evaluation of Tooth Discoloration Induced by 2 Calcium Silicate-based Cements](#)
João Carlos Ramos, Paulo J. Palma, Rita Nascimento, Francisco Caramelo, Ana Messias, Alexandra Vinagre, João Miguel Santos