CONTENTS

Review

Important compositional characteristics in the clinical use of adhesive systems
Masashi Miyazaki, Akimasa Tsujimoto, Keishi Tsubota, Toshiki Takamizawa,
Hiroyasu Kurokawa, and Jeffrey A. Platt ................................................................. 1

Original

Physicomechanical properties of a zinc-reinforced glass ionomer restorative material
Sarah S. Al-Angari, Anderson T. Hara, Tien-Min Chu, Jeffrey Platt, George Eckert, and N. Blaine Cook ......................... 11

Effect of basic fibroblast growth factor on angiogenesis and bone regeneration in non-critical-size bone defects in rat calvaria
Risa Kigami, Shuichi Sato, Noriko Tsuchiya, Nobuaki Sato, Daigo Suzuki, Yoshinori Arai,
Koichi Ito, and Bunnai Ogiso .................................................................................. 17

Effect of a chitosan sponge impregnated with platelet-derived growth factor on bone augmentation beyond the skeletal envelope in rat calvaria
Noriko Tsuchiya, Shuichi Sato, Risa Kigami, Eisuke Kawano, Masatoshi Takane, Yoshinori Arai,
Koichi Ito, and Bunnai Ogiso ................................................................................ 23

Biocompatibility of Portland cement combined with different radiopacifying agents
Natalino Lourenço Neto, Nâdia C. T. Marques, Ana Paula Fernandes, Camila O. Rodini, Marco A. H. Duarte,
Marta C. Lima, Maria A. A. M. Machado, Ruy C. C. Abdo, and Thais M. Oliveira ......................................................... 29

Passive ultrasonic irrigation in the presence of a low concentration of hydrogen peroxide enhances hydroxyl radical generation and bactericidal effect against Enterococcus faecalis
Yoshimi Kobayashi, Makoto Hayashi, Fumihiko Yoshino, Muneaki Tamura, Ayaka Yoshida, Haruna Ibi,
Masaichi-Chang-il Lee, Kuniyasu Ochiai, and Bunnai Ogiso ................................................. 35

Isoproterenol facilitates GABAergic autapses in fast-spiking cells of rat insular cortex
Kurando Suga ........................................................................................................ 41

Adrenergic regulation of GABA release from presynaptic terminals in rat cerebral cortex
Masanori Terakado .................................................................................................. 49

Root proximity and stability of orthodontic anchor screws
Toru Shigeeda ....................................................................................................... 59

Melatonin regulates human bone sialoprotein gene transcription
Hiroyoshi Matsumura and Yorimasa Ogata ............................................................... 67
Midazolam inhibits IgE production in mice via suppression of class switch recombination
Hirotomo Kusama, Ryoki Kobayashi, and Tomoko Kurita-Ochiai

Oral opportunistic infections in institutionalized patients with motor and intellectual disabilities
Norio Horie, Daisuke Nasu, Miki Endo, Atsushi Uchida, Takahiro Kaneko, Tetsuo Shirakawa, and Tetsuo Shimoyama

Case Report
Surgical approach to snus-induced injury of the oral mucosa
Mohammad Kharazmi, Anders-Petter Carlsson, Pär Hallberg, Maria Modig, Lillemor Björnstad, and Jan-Michael Hirsch

Guided bone regeneration following surgical treatment of a rare variant of Pindborg tumor: a case report
Ronaldo C. Mariano, Marina R. Oliveira, Amanda C. Silva, Delano H. Ferreira, and Oslei P. Almeida