

1080 Influence of Surface Treatment on Bond Strength for Ceramic Abutment. Y. HAGIWARA*, N. HINOKIYAMA, M. KOIZUMI, and T. IGARASHI (*School of Dentistry, Nihon University, Tokyo, Japan*).

1081 Bonding Durability of Three Ceramic Surface Treatments—A Longitudinal Evaluation. R.M. FOXTON*, M. NAKAJIMA, P.N.R. PEREIRA, J. TAGAMI, and H. MIURA (*Tokyo Medical & Dental University, Japan; and School of Dentistry, UNC, Chapel Hill, USA*).

1082 Shear Bond Strength of Ceramic Bonded Adhesively to Metal Surfaces. J. MUNACK*, W. GEURTSSEN, and G. HILLMANN (*Dental School, Medical University Hannover, Germany*).

1083 Bond Strength of Luting Cements to Synthoceram Ceramic. H.D. DE BOER*, M.A.J. VAN WAAS, A.J. DE GEE, and A.J. FEILZER (*Department of Dental Materials Science and Department of Oral Function, ACTA, Amsterdam, The Netherlands*).

1084 Bond Strength to Zirconia Ceramic with Different Luting Cements. O. LOEFFEL*, H. LÜTHY, F. FILSER, L. GAUCKLER, P. SCHÄRER, and CH. HÄMMERLE (*University of Zürich, and ETH, Zürich, Switzerland*).

1085 Tensile Strengths of Two Ceramic Crowns and Five Cements. J.C. CHANG, S.H. KOH*, J.M. POWERS, and A. CANTERBURY (*Houston Biomaterials Research Center, University of Texas-Houston Dental Branch, USA*).

1086 Bonding Properties of Dental Zirconia Ceramics (Denzir) with Various Cements. M. UO*, G. SJÖGREN, A. SUNDH, F. WATARI, and M. BERGMAN (*Hokkaido University, Japan; Umeå University, and Decim AB, Sweden*).

1087 Effect of Lingual Veneering Porcelain on Fracture Resistance of In-Ceram Crown. P. SALIMEE* and V. NA-RANONG (*Chulalongkorn University, Bangkok, Thailand*).

1088 Effects of Different Ceramic Firing Cycles on cp Titanium-Ceramic Flexural Bond Strength under Cyclic Fatigue Loading. C.C. HSU*, Y.P. LEE, and C.C. HONG (*Institute of Dental Materials, Chung Shan Medical & Dental College, Taichung, Taiwan*).

Seq#: 128 Friday, June 29, 11:00 am - 12:15 pm
Poster Session, Makuhari Messe: Exhibit Hall 8

Dental Materials - Titanium, Corrosion, Biocompatibility

1089 The Effects of Fluoride and Albumin on Corrosion of Titanium. K. IDE*, M. HATTORI, K. HASEGAWA, M. YOSHINARI, E. KAWADA, and Y. ODA (*Tokyo Dental College, Chiba, Japan*).

1090 Electrochemical Measurement of Titanium with Culturing Murine Fibroblasts L929. S. HIROMOTO* and T. HANAWA (*National Research Institute for Metals, Tsukuba, Japan*).

1091 Ions Released from Dental Amalgams in Contact with Titanium in Galvanic Corrosion. Y. TAKADA*, S.-D. LIM, K. ASAMI, A. KAWASHIMA, T. HANAWA, K.-H. KIM, and O. OKUNO (*Tohoku University, and National Research Institute for Metals, Japan; Taegu Polytechnic College, and Kyungpook University, Korea*).

1092 Effect of Topical Fluoride on Surfaces of Ti-based Orthodontic Wires. E. WATANABE*, I. WATANABE, T. OKABE, and G. GOTO (*Nagasaki University, Japan; and Baylor College of Dentistry, Texas A&M University System HSC, Dallas, USA*).

1093 Comparison of Corrosion Behavior among 4 Grades of Commercially Pure Titanium. W. LIM*, C.J. ANDRES, Y. OSHIDA, T. SHIMIZU, and M. ITO (*School of Dentistry, Indiana University, USA; Daido Steel Co., Nagoya, and Matsumoto Dental University, Nagano, Japan*).

1094 Comparison of Corrosion Behavior of Cast, Rolled, and Metal-injected Pure Titanium. C. KUPHASUK*, Y. OSHIDA, and M. ITO (*Mahidol University, Bangkok, Thailand; Indiana University, Indianapolis, USA; and Matsumoto Dental University, Nagano, Japan*).

1095 Galvanic Corrosion Behaviors of cp Ti Coupled with Three Different Precious Dental Alloys in Ringer's Solution and 1% Lactic Acid. T. YOSHIDA*, M. ITO, and Y. OSHIDA (*Matsumoto Dental University, Nagano, Japan; and School of Dentistry, Indiana University, Indianapolis, USA*).

1096 The Influence of Fluorides on the Electrochemical Interaction between Titanium and Amalgam Couples. F. Di CARLO*, L.F. RONCONI, G. GAMBARINI, M. ANDREASI BASSI, and M. QUARANTA (*Università "La Sapienza" Roma, Italy*).

1097 Electrochemical Study on Microbiological Corrosion of Dental Alloys. J.-C. CHANG*, R.L. GREGORY, Y. OSHIDA, C.J. ANDRES, and F. FARZIN-NIA (*Indiana University, Indianapolis, and Ormco Corp., Glendora, CA, USA*).

1098 Surface Characterization of Various Modified Pure Titanium Materials. Y.J. LIM*, Y. OSHIDA, and M. KOWOLIK (*Kangbuk Samsung Hospital Dental Center, Seoul, Korea; and School of Dentistry, Indiana University, Indianapolis, USA*).

1099 Cytotoxicity of Novel Titanium Alloys. I. WATANABE, J. LIU*, H. SHIMIZU, P.E. LOCKWOOD, J.C. WATAHA, Z. CAI, L. CARRASCO, and T. OKABE (*School of Dentistry, Nagasaki University, and Fukuoka Dental College, Japan; Medical College of Georgia, Augusta, and Baylor College of Dentistry, TX A&M University System HSC, Dallas, USA*).

1100 Cytotoxicity of Free-machining Titanium and Experimental Ti-10Cu Alloy. J.M. BAE*, K.N. KIM, M. HATTORI, K. HASEGAWA, M. YOSHINARI, E. KAWADA, and Y. ODA (*Tokyo Dental College, Chiba, Japan; and Yonsei University, Seoul, Korea*).

1101 Screening Methods for Allergy Associated with Dental Metals. S. YAMANAKA*, T. NOMURA, K. OHTA, and Y. TAKAESU (*Tokyo Dental College, Chiba, Japan*).

1102 The Efficacy of the Patch Test Prior to Allergen Control Treatments. H. HAMANO*, K. WATANABE, T. KOIZUMI, S. AWATCHANAKAN, T. MASUDA, K. UOSHIMA, H. KITAZAKI, H. HANI, M. MATSUMURA, T. OHYAMA, and H. MIURA (*Tokyo Medical and Dental University, Japan*).

1103 Galvanic Corrosion Behavior of Orthodontic Wires Jointed with Silver Solder. J.W. JAHNG*, Y. TAKADA, O. OKUNO, and H. MITANI (*Division of Orthodontics and Dental Biomaterials, Tohoku University, Japan*).

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Dental Materials - Bleaching/Refractory Materials/General

1104 New Bleaching Materials' Influence on Color Behavior of Bovine Enamel. T. PLEIN*, R. LANG, M. ROSENTRITT, and G. HANDEL (*Department of Prosthetic Dentistry, University of Regensburg, Germany*).

1105 Effect of Light Energy on Hydrogen Peroxide Tooth Bleaching. K.K.Y. LUK*, L.E. TAM, and M. HUBERT (*University of Toronto, Canada*).

1106 Two-year Clinical Evaluation of Bleaching Systems: A Spectrophotometric Analysis. M. ANSELMINI* and G. DONDI (*Division of Conservative Dentistry, University of Bologna, Italy*).

1107 Effect of NaOH on Bleaching Capacity of Bleaching Products. R. TERATA*, K. OBARA, and M. KUBOTA (*School of Dentistry, Iwate Medical University, Japan*).