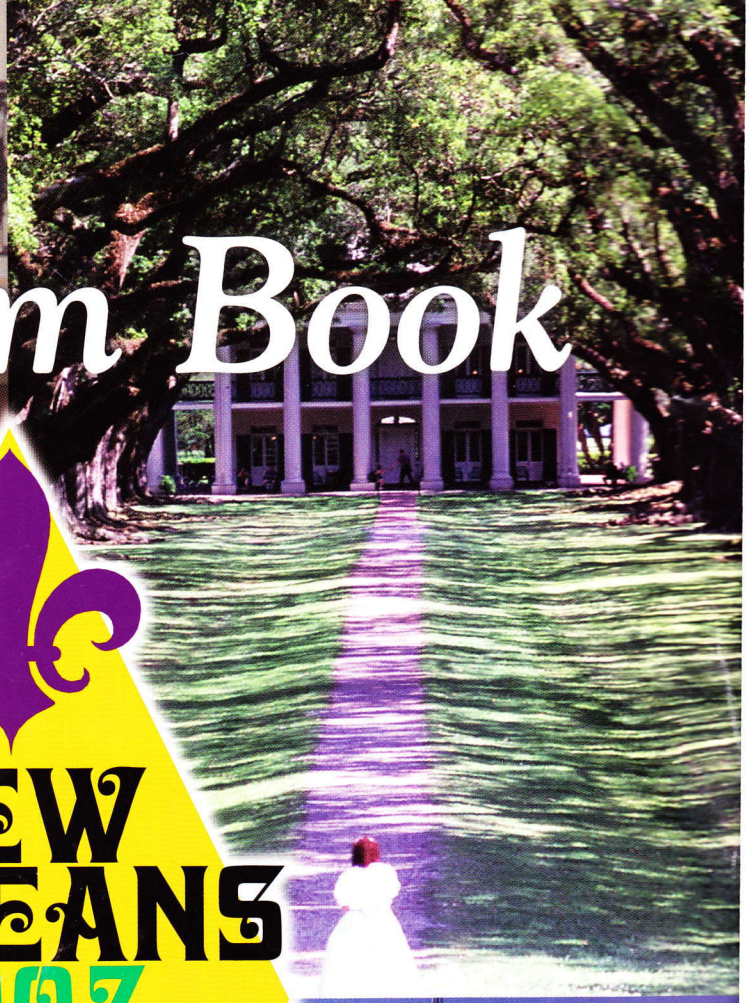
2007 IADR Program Book



NEW ORLEANS 2007

March 21-24

IADR 85th *General Session*

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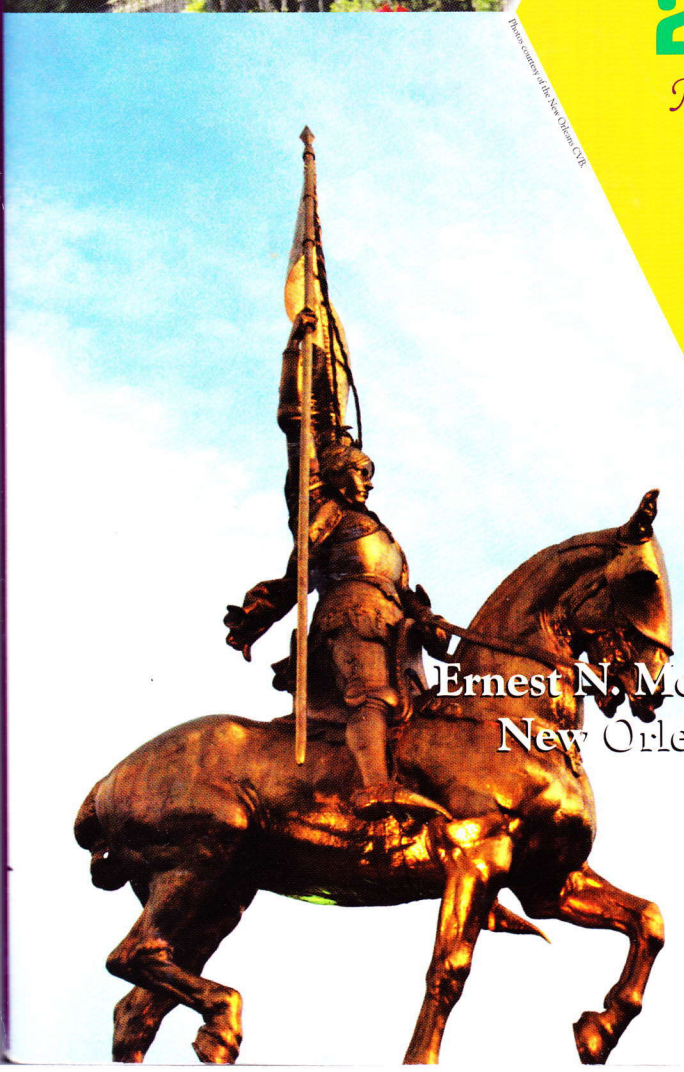

Ernest N. Morial Convention Center
New Orleans, Louisiana, USA

2845 Collagenase Etching: Another View of Dentin Structure. A.J. CHARIG* and A.E. WINSTON *(Church & Dwight Co., Inc., Princeton, NJ, USA)*

2846 Lower Incisor Width Changes from Medieval Times until Today in Croatia. V. NJEMIROVSKIJ*, M. VODANOVIC, H. BRKIC, and Z. RADOVIC *(University of Zagreb, School of Dental Medicine, Croatia)*

2847 Immunolocalization of Na^+-independent Anion Exchanger Ae2 in the Mouse Incisor. D. LYARUU*, A. BRONCKERS, R. OUDE ELFERINK, P. HICHE, S. KELLOKUMPU, and V. EVERTS *(Universiteit van Amsterdam & Vrije Universiteit, Netherlands)*

2848 Dental Age Estimation According to Johanson's Method. H. BRKIC*, M. VODANOVIC, V. NJEMIROVSKIJ, and M. MILICEVIC *(University of Zagreb School of Dental Medicine, Croatia)*

2849 Acellular Cementum on Bone Surfaces of c-src-deficient Mice. Y. TAKANO*, O. BABA, A. MIYATA, Y. NAKANO, and A. KUDO *(Tokyo Medical & Dental University Graduate School, Japan)*

2850 Non-destructive Sub-micron 3D Interrogation of Dentin Using Nanotomography. C.R. PARKINSON* and A. SASOV *(GlaxoSmithKline Consumer Healthcare Research and Development, Surrey, United Kingdom)*

2851 Dental Health in Viking-age Icelanders. S.R. RICHTER* and S.T. ELIASSON *(University of Iceland, Faculty of Odontology, Reykjavik)*

2852 3D Evaluation of Comparative Osteocyte Lacunar Density. H.S. SEO* and T.G. BROMAGE *(New York University College of Dentistry, USA)*

2853 Cementum Attachment to Root Dentin in Rats. S.P. HO, B. YU*, W. YUN, H. CHANG, S.J. MARSHALL, and G.W. MARSHALL *(University of California-Berkeley, USA)*

2854 Internal Structure of the Enamel/Dentin Zone in Permanent Teeth. R. CHALAS*, T. BACHANEK, J. NOWAK, J. LEKKI, R. VAN GRIEKEN, B. DROP, and A. KUCZUMOW *(Medical University of Lublin, Poland)*

2855 Temporospatial Activities of Acetylcholinesterase in Mouse Tooth Development. S.-M. BOK, K.-C. CHUNG, T.-H. KIM, S.-J. CHEONG, and E.-S. CHO* *(Chonbuk National University, Jeonju, South Korea)*

2856 Development of the Molars of the Russian Vole (*Microtus rossiaemeridionalis*). A. TAKAKUSAKI*, S.-I. ODA, K. KOYASU, M. MIZUTANI, N. OHNO, T. KAWAI, and H. HANAMURA *(Nagoya University, Japan)*

2857 Micro-CT Analysis of Tooth Maturation in VDR Knockout Mice. X. ZHANG*, P. ANDERSON, T. NAGY, H.F. THOMAS, M. MacDOUGALL, and F. RAHEMTULLA *(UAB School of Dentistry, Birmingham, AL, USA)*

Seq#: 293 Saturday, 24 March 2007, 10:45 AM - 12:00 NOON
Poster, Exhibit Hall I2-J

Salivary Research - *Salivary Gland Physiology and Dysfunction*

2858 Isoproterenol Improves the Function of Autotransplanted Submandibular Gland in Rabbit. G.-Y. YU*, Y.-M. LI, L.-L. WU, Y. ZHANG, B. XIANG, and Y.-Y. ZHANG *(Peking University, Beijing, China)*

2859 Influence of Estrogen and Progesterone on Submandibular Blood Flow. M. LINDSAY*, J. SMITH, R. RAHIMIAN, and L. ANDERSON *(University of the Pacific, San Francisco, CA, USA)*

2860 Parotid Secretory Protein-sorting Involves Protein and Membrane Lipid Interactions. S.G. VENKATESH*, B.D. HOPKINS, J. TAN, and D. DARLING *(University of Louisville, KY, USA)*

2861 Localization of $G\alpha_s$ in Mouse Salivary Glands. A.R. HAND*, K.O. ELDER, and K. KIKUCHI *(University of Connecticut Health Center, Farmington, USA)*

2862 Acinar Cell Spheroid Formation on Polyvinyl Alcohol. M.-H. CHEN*, C.-C. LIAO, Y.-J. CHEN, and T.-H. YOUNG *(National Taiwan University, Taipei, Taiwan)*

2863 Glucocorticoids increase Apoptosis in Human Salivary Gland Ductal Cells. C. McARTHUR* and Y. WANG *(University of Missouri-Kansas City, USA)*

2864 Effects of Pro-inflammatory Cytokines on Polarized Rat Parotid Par-C10 Monolayers. O. BAKER*, J.M. CAMDEN, D.E. ROME, J.E. JONES, and G.A. WEISMAN *(University of Missouri, Columbia, USA)*

2865 β2-adrenergic Receptors Mediate Isoproterenol-induced Activation of MAPKs in Salivary Cells. C.-K. YEH*, A.L. LIN, B. ZHU, H. DANG, and M.S. KATZ *(University of Texas San Antonio / Health Science Ctr., USA)*

2866 Role of E-cadherin Junctions in Sjögren's Disease. D.M. AFSHAR*, S. KHALIL, L. BAN, D. FAUSTMAN, and M. KUKURUZINSKA *(Boston University, MA, USA)*

2867 Expression of β-defensins in Autoimmune Sialoadenitis of MRL/lpr Mice. M. SAITOH*, M. YAMAZAKI, Y. KURASHIGE, M. TAKESHIMA, S. NAKAMURA, S. IGARASHI, D. NORO, and Y. ABIKO *(Health Sciences University of Hokkaido, Sapporo, Japan)*

2868 Estrogen Inhibits TNF-induced Apoptosis in an Autoimmune Model. Y. WANG* and C. McARTHUR *(University of Missouri -Kansas City, USA)*

2869 Mechanisms of Water Secretion in Normal and Diabetic Rats' Submandibular Glands. K. UCHIHASHI*, N. TAKAI, and Y. NISHIKAWA *(Osaka Dental University, Japan)*

Seq#: 294 Saturday, 24 March 2007, 10:45 AM - 12:00 NOON
Poster, Exhibit Hall I2-J

Microbiology / Immunology and Infection Control - *Immunology and Microbiology*

2870 A Molecular Analysis of the Bacteria Present within Oral Carcinoma. S.J. HOOPER*, S. CREAN, M.J. FARDY, M.A.O. LEWIS, and M.J. WILSON *(Cardiff University, United Kingdom)*

2871 Effects of Altered Cytokine Expression on MMP Expression. C. YONKER* and L.J. WINDSOR *(Indiana University-Purdue University, Indianapolis, USA)*

2872 Antifungal Effect of Nystatin Vaginal Tablet Combined with Tissue Conditioner. R. NAGASIRI*, C. AMORNCHAT, and W. WEERAPRADIST *(Mahidol University, Bangkok, Thailand)*

2873 Cloning and Expression of *Treponema denticola* Fibronectin-binding Protein (Fbp). R. MONTGOMERY*, B. STEFFENSEN, Z. CHEN, A. YU, S. PAL, E. KALMYKOV, and X. XU *(University of Texas - San Antonio / Health Science Ctr., USA)*

2874 Degradation of Serine-containing Peptides by *Micromonas micros*. H. UEMATSU* and E. HOSHINO *(Niigata University School of Dentistry, Japan)*

Brkić H, Vodanović M, Njemirovskij V, Miličević M. Dental age estimation according to Johanson`s method. 85th General session & exhibition of the International Association for Dental Research, March 21-24, 2007, New Orleans, Lousiana, USA. J Dent Res. 2007;86(Spec ISS A): abstract number 2848.

2848 Dental Age Estimation According to Johanson`s Method

H. BRKIC, M. VODANOVIC, V. NJEMIROVSKIJ, and M. MILICEVIC, University of Zagreb School of Dental Medicine, Zagreb, Croatia

Brkić H, Vodanović M, Njemirovskij V, Miličević M. Dental age estimation according to Johanson`s method. 85th General session & exhibition of the International Association for Dental Research, March 21-24, 2007, New Orleans, Lousiana, USA. J Dent Res. 2007;86(Spec ISS A): abstract number 2848.

OBJECTIVES: Dental age estimation of the adult human remains can often be of great importance in forensic identification cases. There are numerous existing methods for the dental age determination, as well as several statistical methods for estimation of dental age in adults available in contemporary forensic dentistry. The aim of the present study was to compare real dental age with dental age estimation by the method according to Johanson (1971). METHODS: 143 Caucasian permanent intact teeth without dental filings and dental cavity were taken. The known age ranging was from 14 to 61 years. The average age was 45 years. For the dental age estimation the method according to Johanson (1971) was used. Every tooth was subject to longitudinal section of the mid-pulpal area in a vestibulo-lingual plane. Six variables were analyzed: secondary dentin, attrition, cementum apposition, root resorption, periodontal recession, and root translucency. The results of the known and the estimated age have been statistically compared using Person's correlation coefficient and regression analysis. RESULTS: The results showed strong correlation coefficient r=0.85; p<0.001 between known and estimated dental age. According to the multiple regression analysis maxillary two rooted premolars are in the stronger correlation with the age r=0.80; p<0.001. CONCLUSION: The results obtained at this study can be recommended for forensic age estimation in human population from Croatia.

The research was supported by the Ministry of Science, Education and Sports of the Republic of Croatia – grant No. 0065004.

Seq #292 - Ultrastructure
10:45 AM-12:00 PM, Saturday, March 24, 2007 Ernest N. Morial Convention Center Exhibit Hall I2-J

Poster

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Back to the IADR/AADR/CADR 85th General Session and Exhibition (March 21-24, 2007)

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