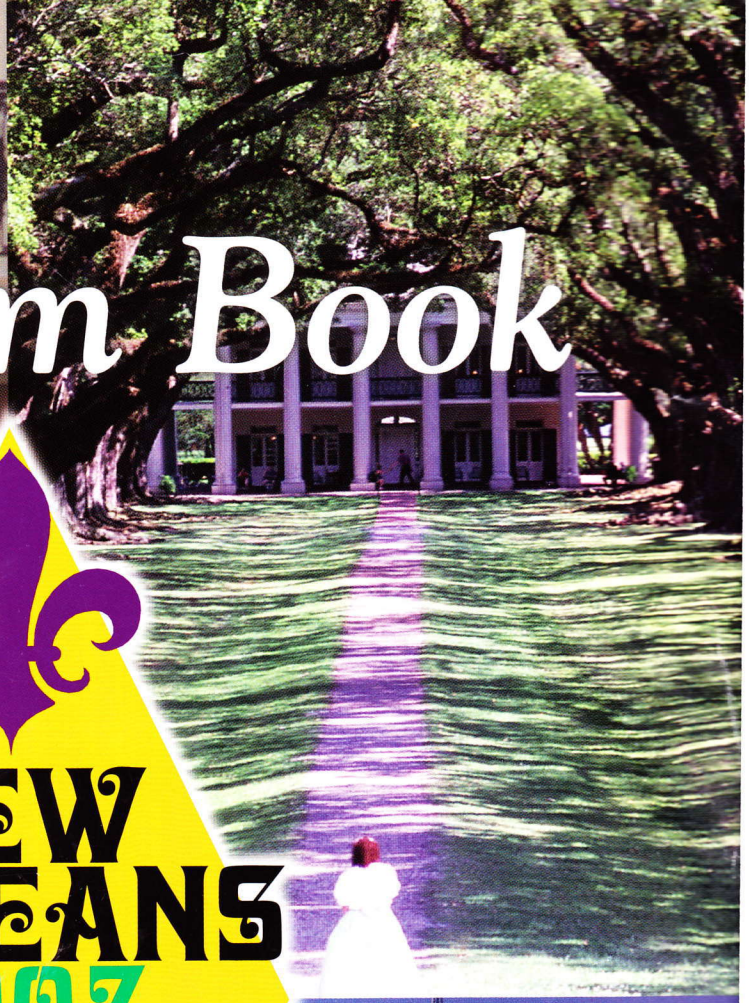
2007 IADR Program Book



NEW ORLEANS 2007

March 21-24

IADR 85th *General Session*

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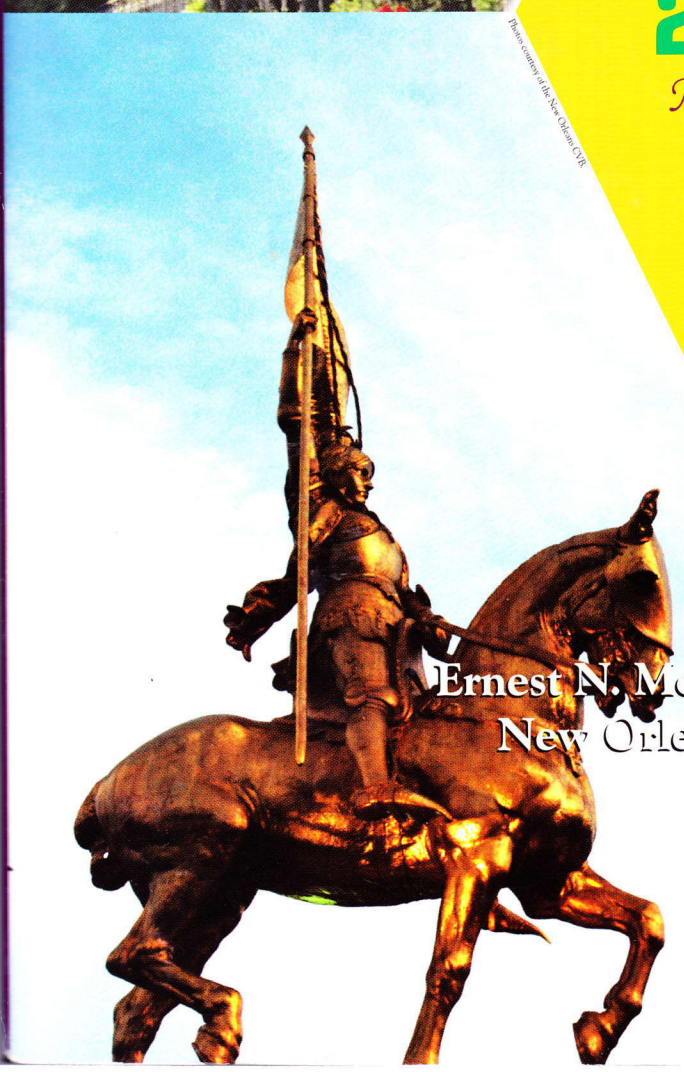

Ernest N. Morial Convention Center
New Orleans, Louisiana, USA

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)*

Njemirovskij V, Vodanović M, Brkić H, Radović Z. Lower incisors width changes from medieval until today in Croatia. 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 2846.

2846 Lower Incisors Width Changes from Medieval until Today in Croatia

V. NJEMIROVSKIJ[1], M. VODANOVIC[1], H. BRKIC[1], and Z. RADOVIC[2], [1]University of Zagreb, School of Dental Medicine, Croatia, [2]Private dental practice - Dubrovnik, Croatia

OBJECTIVES: Comparison of mesiodistal width of lower incisors in recent and early medieval population from continental and coastal part of Croatia.

METHODS: The investigation was carried out on 403 intact lower central and lateral incisors (193 teeth from medieval and 240 teeth from recent times). Mesiodistal width of tooth crown was measured using sliding caliper. Results of the measurements were statistically analyzed by Student t-test. The level of significance was set at $p < 0.05$.

RESULTS: Lower incisors belonging to the recent population from coastal part of Croatia (central 5.4+/-0.3 mm; lateral 6.0+/-0.3 mm) had significant higher mesiodistal diameter of tooth crown than incisors from the continental Croatia (central 4.9+/-0.3 mm; lateral 5.4+/-0.3 mm). There was no significant difference in mesiodistal width between teeth from continental and coastal Croatia in the Middle Ages. Medieval incisors from continental Croatia (central 5.2+/-0.3 mm; lateral 5.8+/-0.4 mm) had significant higher mesiodistal diameter than teeth from the same part of Croatia but from recent times (central 4.9+/-0.3 mm; lateral 5.4+/-0.3 mm). Comparison of incisors from medieval and recent populations in coastal Croatia showed that contemporary inhabitants of this part of Croatia (central 5.4+/-0.3 mm; lateral 6.0+/-0.3 mm) have higher mesiodistal diameter than their ancestors (central 5.3+/-0.4 mm; lateral 5.8+/-0.3 mm).

CONCLUSION: Mesiodistal width of central and lateral lower incisors was decreased from the medieval times until today in the continental part of Croatia, but increased in the coastal part. This could be explained by different dietary patterns in these two parts of Croatia, both in the past and nowadays. Different dietary patterns can produce different masticatory forces which influence the level of approximal tooth wear.

The research was supported by the Ministry of Science, Education and Sports of the Republic of Croatia – grant No. 0065103.

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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