CRITICAL REVIEWS IN ORAL BIOLOGY & MEDICINE

Emerging Mechanisms of Immunosuppression in Oral Cancers
A. Jewett, C. Head, and N.A. Cacalano
This review focuses on emerging mechanisms of immunosuppression in oral cancers.

Tissue Inhibitors of Metalloproteinases (TIMPs):
Their Biological Functions and Involvement in Oral Disease
J. Verstappen and J.W. Von den Hoff
The authors focus on the biological functions of TIMPs and their occurrence in disease, especially in the head and neck area.

BIOLOGICAL

Roles of CLCA and CFTR in Electrolyte Re-absorption from Rat Saliva
K. Ishibashi, I. Yamazahi, K. Okamura, Y. Teng, K. Kitamura, and K. Abe
The authors present the first in vivo evidence for a physiological significance of rCLCA, along with CFTR, in transepithelial Cl- transport in the ductal system of the rat submandibular gland.

Effects of Phenytoin on Transplanted Submandibular Gland
B. Xiang, Y. Zhang, Y.M. Li, K. Zhang, Y.Y. Zhang, L.L. Wu, and G.Y. Yu
Phenylephrine treatment attenuates structural injury and improves secretory functions in the transplanted submandibular gland through promoting α,-adrenoceptor expression and post-receptor signal transduction.

Duty Time of Rabbit Jaw Muscles Varies with the Number of Activity Bursts

T. Grünheid, G.E.J. Langenbach, A. Zentner, and T.M.G.I. Van Eijden

The variation of the duty time in rabbit jaw muscles is caused mainly by changes in burst numbers.

Bilateral TMJ Disk Displacement induces Mandibular Retrognathia

F. Bryndahl, L. Eriksson, P.E. Legrell, and A. Isöerg

Bilateral non-reducing TMJ disk displacement retards mandibular growth bilaterally.

Calcium Modulates Interactions between Bacteria and Hydroxyapatite

S.C. Venegas, J.M. Palacios, M.C. Apella, P.J. Morando, and M.A. Blesa

Lactic acid formation in the early stages of attack on enamel may indirectly generate conditions favorable for further bacterial adhesion.

CLINICAL

Human Saliva Proteome and Transcriptome

S. Hu, Y Li, J. Wang, Y. Xie, K. Tjon, L. Wolinsky, R.R.O. Loo, 1.A. Loo, and D.T Wong

The saliva transcriptome may provide preliminary insights into the boundary of the saliva proteome.

Gingivitis Susceptibility and its Relation to Periodontitis in Men

T. Dietrich, E. Krall Kaye, M.E. Nunn, T. Van Dyhe, and R.I. Garcia

Susceptibility to gingivitis may be associated with susceptibility to periodontitis among men.

Plaque Removal by Young Children Using Old and New Toothbrushes

W.H. van Palenstein Heldervnan, M.M. Kyaing, M.T. Aung, W. Soe, N.A.M. Rosema, G.A. van der Weijden, and M.A. van ’t Hof

The authors report the results of a randomized cross-over clinical trial designed to validate or invalidate the non-inferiority of plaque-removal efficiency of old vs. new toothbrushes in the hands of 7- and 8-year-old children.

A Novel Missense Mutation in Van der Woude Syndrome:
Usefulness of Fingernail DNA for Genetic Analysis

N. Matsuzawa, K. Shimozato, N. Natsume, N. Nükawa, and K. YosHiura

Fingernail DNA is useful for genetic linkage and mutation analyses of Van der Woude syndrome.

Predicting Clustered Dental Implant Survival Using Frailty Methods

S.-K. Chuang and T Cai

Conditional and joint predictions of implant survival can assist in surgical treatment-planning, improved clinical decision-making, and better patient care.