

## CONTENTS

著者	北海道医療大学歯学会
雑誌名	北海道医療大学歯学雑誌
巻	34
号	2
発行年	2015-12-31
URL	<a href="http://id.nii.ac.jp/1145/00010405/">http://id.nii.ac.jp/1145/00010405/</a>

The Dental Journal of Health Sciences University of Hokkaido  
VOL. 34, NO. 2, DECEMBER, 2015  
CONTENTS

REVIEW

- 1 **The enigma of cyclic AMP mediated salivary exocytosis**  
Taishin TAKUMA ..... (73)

ORIGINAL

- 17 **DNA methylation analysis of Anti-aging related genes in Human Periodontal Ligament Fibroblasts by long-term stimulus of Lipopolysaccharide derived from *Porphyromonas gingivalis***  
Rie TAKAI, Fumiya HARADA, Tetsuro MORIKAWA, Bhoj Raj ADHIKARI, Jun ITOH-OBARA,  
Masafumi UTSUNOMIYA, Osamu UEHARA, Koki YOSHIDA, Jun SATO, Michiko NISHIMURA,  
Itsuo CHIBA, Yoshihiro ABIKO ..... (89)
- 23 **Three-dimensional nonlinear finite element analysis of orthodontic tooth movement with a light force**  
Yukie OKA, Masaru KOBAYASHI, Kazuo HAYASHI, Itaru MIZOGUCHI ..... (95)
- 37 **Effect of active form of vitamin D<sub>3</sub> in the differentiation of rat dental epithelial cell line**  
Kaori MURATA, Akihiko TANIMURA, Masato SAITOH ..... (109)
- 45 **A combination of oral care and 23-valent-pneumococcal vaccination is able to reduce pneumonia incidence in nursing homes**  
Masahiro HATTA D.D.S., Takahiro ICHIKI M.D., Hiroyuki MORITA M.D.,  
Masako HATTA D.D.S., Tomohiko MURAKAMI M.D. .... (117)

CLINICAL REPORT

- 55 **A case of Clear cell variant of Mucoepidermoid carcinoma of the palate**  
Takatoshi CHUJO, Kosuke TAKIMOTO, Bhoj Raj ADHIKARI, Tetsuro MORIKAWA,  
Fumiya HARADA, Rie TAKAI, Koki YOSHIDA, Jun SATO, Shintaro YODOGAWA,  
Michiko NISHIMURA, Hiroki NAGAYASU and Yoshihiro ABIKO ..... (127)

MINI REVIEW (Introduction to Instrumental Analysis)

- 61 **Analysis of Materials and Products by a X-ray diffractometry**  
Masahiro IJIMA, Kazuhiko ENDO ..... (133)

DENTAL INFORMATION

- 65 **Recent topics** ..... (137)