

Dent J Health Sci Univ Hokkaido

ORIGINAL REPORT

- 1 Study of the spontaneous non-pigmented variant of *Porphyromonas gingivalis* in biofilm formation
Arihide KAMAGUCHI, Masaaki OKAMOTO, Eiji IGARASHI, Mari FUJITA, Hirosi MIYAKAWA,
and Futoshi NAKAZAWA (85)
- 9 mRNA expression of proteoglycans in temporomandibular joint disc of growing rats
Naohisa KOHDA, Naoko TORIYA, Toshiya ARAKAWA, Taishin TAKUMA
and Itaru MIZOGUCHI (93)

ABSTRACT OF DOCTORAL DISSERTATION

- 19 Establishment of orthognathic surgery simulation by using multimodal 3D (3-dimensional)
image-fusion techniques.
Jun UECHI (103)
- 23 Residual stress at the adhesion interfaces and deformation of metal frame induced to polymerization
shrinkage and thermal contraction of high polymer
Ken KAKINO (107)

DENTAL INFORMATION

- 25 Recent topics (109)