

予防歯科学教室・先端機器情報学教室

【原著】

1. Nakano K, Wada K, Nomura R, Nemoto H, Inaba H, Kojima A, Naka S, Hokamura K, Mukai T, Nakajima A, Umemura K, Kamisaki Y, Yoshioka H, Taniguchi K, Amano A, Ooshima T. **2011**. Characterization of aortic aneurysms in cardiovascular disease patients harboring *Porphyromonas gingivalis*. *Oral Dis* 17(4):370-378.
2. Sugita A, Kawai S, Hayashibara T, Amano A, Ooshima T, Michigami T, Yoshikawa H, Yoneda T. **2011**. Cellular ATP synthesis mediated by type III sodium-dependent phosphate transporter *Pit-1* is critical to chondrogenesis. *J Biol Chem* 286(4): 3094-3103.
3. Takeuchi H, Furuta N, Morisaki I, Amano A. **2011**. Exit of intracellular *Porphyromonas gingivalis* from gingival epithelial cells is mediated by endocytic recycling pathway. *Cell Microbiol* 13(5):677-691.
4. Nakano K, Hokamura K, Taniguchi N, Wada K, Kudo C, Nomura R, Kojima A, Naka S, Muranaka Y, Thura M, Nakajima A, Masuda K, Nakagawa I, Speziale P, Shimada N, Amano A, Kamisaki Y, Tanaka T, Umemura K, Ooshima T. **2011**. The collagen-binding protein of *Streptococcus mutans* is involved in hemorrhagic stroke. *Nat Commun* 2:485.
5. Hamazaki Y, Amano A, Murakami S. **2011**. Consideration on English education at Osaka University Graduate School of Dentistry. *J Osaka Univ Dent Soc* 56(1):5-30.
6. Inaba H, Tagashira M, Kanda T, Amano A. **2011**. Proliferation of smooth muscle cells stimulated with *Porphyromonas gingivalis* is inhibited by apple polyphenol. *J Periodontol* 82(11):1616-1622.
7. Aoki A, Shibata Y, Okano S, Maruyama F, Amano A, Nakagawa I, Abiko Y. **2012**. Transition metal ions induce carnosinase activity in PepD-homologous protein from *Porphyromonas gingivalis*. *Microb Pathog* 52(1):17-24.
8. Yoneda M, Naka S, Nakano K, Wada K, Endo H, Mawatari H, Imajo K, Nomura R, Hokamura K, Ono M, Murata S, Tohnai I, Sumida Y, Shima T, Kuboniwa M, Umemura K, Kamisaki Y, Amano A, Okanoue T, Ooshima T, Nakajima A. **2012**. Involvement of a periodontal pathogen, *Porphyromonas gingivalis* on the pathogenesis of non-alcoholic fatty liver disease. *BMC Gastroenterol* 12(1): 16.
9. Kawai S, Amano A. **2012**. BRCA1 regulates microRNA biogenesis via the DROSHA microprocessor complex. *J Cell Biol* 197(2): 201-208.

【総説】

1. Takeuchi H, Furuta N, Amano A. **2011**. Cell entry and exit by periodontal pathogen via recycling pathway. *Commun Integr Biol* 4(5): 587-589.
2. Amano A, Furuta N. **2012**. Cell entry and exit by periodontal pathogen *Porphyromonas gingivalis*. *J Oral Biosci* 54:54-57.
3. 天野敦雄, 稲葉裕明. **2011**. 歯周病と4つの全身疾患, *臨床薬理*42(2):65-66.
4. 天野敦雄, 稲葉裕明. **2012**. 循環器疾患と歯周病, *CLINICAL CALCIUM* 22(1):43-48.
5. 天野敦雄. **2012**. 病因論から再考する歯周治療, *障害者歯科*32(1): 1-7 .

小児歯科学教室

【原著】

1. Nakano K, Wada K, Nomura R, Nemoto H, Inaba H, Kojima A, Naka S, Hokamura K, Mukai T, Hata H, Toda K, Nakajima A, Umemura K, Kamisaki Y, Yoshioka H, Taniguchi K, Amano A, Ooshima T. **2011**. Characterization of aortic aneurysm of cardiovascular diseases patients with *P. gingivalis* occurrence. *Oral Dis* 17(4): 371–378.
2. Nomura R, Nakano K, Mäkelä K, Vaara M, Salo E, Alaluusua S, Ooshima T. **2011**. Isolation and characterization of *Streptococcus mitis* from blood of child with osteomyelitis. *Int J Paediatr Dent* 21(3): 192–199.
3. Kato Y, Shirai M, Murakami M, Mizusawa T, Hagimoto A, Wada K, Nomura R, Nakano K, Ooshima T, Asai F. **2011**. Molecular detection of human periodontal pathogens in oral swab specimens from dogs in Japan. *J Vet Dent* 28(2): 84–89.
4. Nakano K, Hokamura K, Taniguchi N, Wada K, Kudo C, Nomura R, Kojima A, Naka S, Muranaka Y, Thura M, Nakajima A, Masuda K, Speziale P, Shimada N, Amano A, Kamisaki Y, Tanaka T, Umemura K, Ooshima T. **2011**. The collagen-binding protein of *Streptococcus mutans* is involved in haemorrhagic stroke. *Nat Commun* 2: 485.
5. Lapidattanakul J, Nakano K, Nomura R, Leelataweewud P, Chalermarp N, Klaophimai A, Srisatjaluk R, Hamada S, Ooshima T. **2011**. Multilocus sequence typing analysis of *Streptococcus mutans* strains with the *cnm* gene encoding a collagen-binding adhesin. *J Med Microbiol* 60(11): 1677–1684.
6. Nemoto H, Nakano K, Masuda K, Wada K, Ardin AC, Nomura R, Ooshima T. **2011**. Distribution of oral streptococci highly resistant to amoxicillin in dental plaque specimens from Japanese children and adolescents. *J Med Microbiol* 60(12): 1853–1859.
7. Masuda K, Nemoto H, Nakano K, Naka S, Nomura R, Ooshima T. **2012**. Amoxicillin-resistant oral streptococci identified in dental plaque specimens from healthy Japanese adults. *J Cardiol* (in press)
8. Kojima A, Nakano K, Wada K, Takahashi H, Katayama K, Yoneda M, Higarashi T, Nomura R, Hokamura K, Muranaka Y, Matsushashi N, Umemura K, Kamaisaki Y, Nakajima A, Ooshima T. **2012**. Infection of specific strains of *Streptococcus mutans*, oral bacteria, confers a risk of ulcerative colitis. *Sci Rep* 2: 332.
9. Yoneda M, Naka S, Nakano K, Wada K, Endo H, Mawatari H, Imajo K, Nomura R, Hokamura K, Ono M, Murata S, Tohnai I, Sumida Y, Shima T, Kuboniwa M, Umemura K, Kamisaki Y, Amano A, Okanoue T, Ooshima T, Nakajima A. **2012**. Involvement of a periodontal pathogen, *Porphyromonas gingivalis* on the pathogenesis of non-alcoholic fatty liver disease. *BMC Gastroenterol* 12: 16.
10. Yamasaki Y, Nomura R, Nakano K, Naka S, Matsumoto-Nakano M, Ooshima T. **2012**. Distribution of periodontopathic bacterial species in dogs and their owners. *Arch Oral Biol* (in press)
11. Nomura R, Shirai M, Kato Y, Murakami M, Nakano K, Hirai N, Mizusawa T, Naka S, Yamasaki Y, Matsumoto-Nakano M, Ooshima T, Asai F. **2012**. Diversity of fimbriin among *Porphyromonas gulae* clinical isolates from Japanese dogs. *J Vet Med Sci* (in press)
12. Nomura R, Nakano K, Naka S, Nemoto H, Masuda K, Lapidattanakul J, Alaluusua S, Matsumoto M, Kawabata S, Ooshima T. **2012**. Identification and characterization of a collagen-binding protein, Cbm, in *Streptococcus mutans*. *Mol Oral Microbiol* (in press)

受賞

小児歯科学教室

1. 仲 周平

第30回日本小児歯科学会近畿地方会記念大会優秀発表賞 (2011年10月)

2. 稲垣暁子

平成22年度日本小児歯科学会奨励賞 (2011年11月)

3. 大嶋 隆

平成22年度日本小児歯科学会賞 (2011年11月)

4. Nakano K, Wada K, Nomura R, Nemoto H, Inaba H, Kojima A, Naka S, Hokamura K, Mukai T, Hata H, Toda K, Nakajima A, Umemura K, Kamisaki Y, Yoshioka H, Taniguchi K, Amano A, Ooshima T. Best Original Award in Oral Diseases 2011 (2011年12月)

口腔細菌学教室

【原著】

1. Okahashi N, Nakata M, Terao Y, Isoda R, Sakurai A, Sumitomo T, Yamaguchi M, Kimura RK, Oiki E, Kawabata S, Ooshima T. **2011**. Pili of oral *Streptococcus sanguinis* bind to salivary amylase and promote the biofilm formation. *Microb Pathog* 50(3-4): 148-154.
2. Matsumoto-Nakano M, Nagayama K, Kitagori H, Fujita K, Inagaki S, Takashima Y, Tamesada M, Kawabata S, Ooshima T. **2011**. Inhibitory effects of oenothera biennis (evening primrose) seed extract on *Streptococcus mutans* and *S. mutans*-induced dental caries in rats. *Caries Res* 45(1): 56-63.
3. Ogawa T, Terao Y, Sakata H, Okuni H, Ninomiya K, Ikebe K, Maeda Y, Kawabata S. **2011**. Epidemiological characterization of *Streptococcus pyogenes* isolated from patients with multiple onsets of pharyngitis. *FEMS Microb Lett* 318(2): 143-151.
4. Ogawa T, Terao Y, Okuni H, Ninomiya K, Sakata H, Ikebe K, Maeda Y, Kawabata S. **2011**. Biofilm formation or internalization into epithelial cells enable *Streptococcus pyogenes* to evade antibiotic eradication in patients with pharyngitis. *Microb Pathog* 51(1-2): 58-68.
5. Kataoka K, Fujihashi K, Oma K, Fukuyama Y, Hollingshead SK, Sekine S, Kawabata S, Ito H, Briles DE, Oishi K. **2011**. The nasal dendritic cell-targeting Flt3 ligand as a safe adjuvant elicits effective protection against fatal pneumococcal pneumonia. *Infect Immun* 79(7): 2819-2828.
6. Hoshino T, Kondo Y, Saito K, Terao Y, Okahashi N, Kawabata S, Fujiwara T. **2011**. Novel epitopic region of glucosyltransferase B from *Streptococcus mutans*. *Clin Vaccine Immunol* 18(9): 1552-1561.
7. Baatarjav T, Kataoka K, Gilbert RS, Terao Y, Fukui M, Goto M, Kawabata S, Yamamoto M, Fujihashi K, Ito HO. **2011**. Mucosal immune features to phosphorylcholine by nasal Flt3 ligand cDNA-based vaccination. *Vaccine* 29(34): 5747-5757.
8. Okahashi N, Okinaga T, Sakurai A, Terao Y, Nakata M, Nakashima K, Shintani S, Kawabata S, Ooshima T, Nishihara T. **2011**. *Streptococcus sanguinis* induces foam cell formation

and cell death of macrophages in association with production of reactive oxygen species. *FEMS Microbiol Lett* 323(2): 164–170.

9. Nakata M, Kimura KR, Sumitomo T, Wada S, Sugauchi A, Oiki E, Higashino M, Kreikemeyer B, Podbielski A, Okahashi N, Hamada S, Isoda R, Terao Y, Kawabata S. **2011**. Assembly mechanism of FCT region type 1 pili in serotype M6 *Streptococcus pyogenes*. *J Biol Chem*, 286(43): 37566–37577.
10. Kataoka K, Fujihashi K, Terao Y, Gilbert RS, Sekine S, Kobayashi R, Fukuyama Y, Kawabata S, Fujihashi K. **2011**. Oral–nasopharyngeal dendritic cells mediate T cell–independent IgA class switching on B-1 B cells. *PLoS One* 6(9): e25396.
11. Sumitomo T, Nakata M, Yamaguchi M, Terao Y, Kawabata S. **2012**. S-carboxymethylcysteine inhibits adherence of *Streptococcus pneumoniae* to human alveolar epithelial cells. *J Med Microbiol* 61(1): 101–108.
12. Kimura KR, Nakata M, Sumitomo T, Kreikemeyer B, Podbielski A, Terao Y, Kawabata S. **2012**. Involvement of T6 pili in biofilm formation by serotype M6 *Streptococcus pyogenes*. *J Bacteriol* 194(4): 804–812.
13. Mori Y, Yamaguchi M, Terao Y, Hamada S, Ooshima T, Kawabata S. **2012**. - - enolase of *Streptococcus pneumoniae* induces formation of neutrophil extracellular traps. *J Biol Chem* 287(13): 10472–10481.
14. Ogawa T, Yamasaki S, Honda M, Terao Y, Kawabata S, Maeda Y. **2012**. Long-term survival of salivary streptococci on dental devices made of EVA. *Int J Oral Science* 4(1): 14–18.