

# 【原著論文】

1. Takahashi N, Abbe K, Takahashi-Abbe S, Yamada T. Oxygen sensitivity of sugar metabolism and interconversion of pyruvate formate-lyase in intact cells of *Streptococcus mutans* and *Streptococcus sanguis*. *Infect Immun* 55: 652-656, 1987.
2. Takahashi N. Evaluation of the acidogenic activity of dental plaque *in vivo* by in-dwelling electrode method. *Tohoku Univ Dent J* 6: 91-98, 1987. (in Japanese)
3. Iwami Y, Hata S, Takahashi N, Yamada T. Difference between the amounts of total carboxylic acid and titratable acid produced by oral streptococci. *J Dent Res* 68: 16-19, 1989.
4. Takahashi N, Schachtele CF. Effect of pH on growth and proteolytic activity of *Porphyromonas gingivalis* and *Bacteroides intermedius*. *J Dent Res* 69: 1244-1248, 1990.
5. Takahashi N, Iwami Y, Yamada T. Metabolism of intracellular polysaccharide in the cells of *Streptococcus mutans* under strictly anaerobic conditions. *Oral Microbiol Immunol* 6: 299-304, 1991.
6. Hojo S, Takahashi N, Yamada T. Acid profile in caries dentin. *J Dent Res* 70: 182-186, 1991.
7. Takahashi N, Yamada T. Stimulatory effect of bicarbonate on glycolysis of *Actinomyces viscosus* and its biochemical mechanism. *Oral Microbiol Immunol* 7: 165-170, 1992.
8. Takahashi N, Eisenhuth G, Lee I, Schachtele C, Laible N, Binion S. Nonspecific antibacterial factors in milk from cows immunized with human oral bacterial pathogens. *J Dairy Sci* 75: 1810-1820, 1992.
9. Takahashi N, Eisenhuth G, Lee I, Laible N, Binion S, Schachtele C. Immunoglobulins in milk from cows immunized with oral strains of *Actinomyces*, *Prevotella*, *Porphyromonas* and *Fusobacterium*. *J Dent Res* 71: 1509-1515, 1992.
10. Takahashi N, Kalfas S, Yamada T. The role of the succinate pathway in sorbitol fermentation by *Actinomyces viscosus* and *Actinomyces naeslundii*. *Oral Microbiol Immunol* 9: 218-223, 1994.
11. Kalfas S, Takahashi N, Yamada T. Initial catabolism of sorbitol in *Actinomyces viscosus* and *Actinomyces naeslundii*. *Oral Microbiol Immunol* 9: 372-375, 1994.
12. Hojo S, Okuda R, Komatsu K, Takahashi N, Yamada, T. Acid profiles and pH of carious dentin in active and arrested lesions. *J Dent Res* 73: 1853-1857, 1994.
13. Takahashi N, Kalfas S, Yamada, T. Effect of acetate on sorbitol fermentation by oral lactobacilli. *Oral Microbiol Immunol* 10: 349-354, 1995.
14. Takahashi N, Kalfas S, Yamada T. Phosphorylating enzymes involved in glucose fermentation of and *Actinomyces naeslundii*. *J Bacteriol* 177: 5806-5811, 1995.
15. Takahashi N, Yamada T. Catabolic pathway for aerobic degradation of lactate by *Actinomyces naeslundii*. *Oral Microbiol Immunol* 11: 193-198, 1996.

16. Takahashi N, Horiuchi M, Yamada T. Effect of acidification on growth and glycolysis of *Streptococcus sanguis* and *Streptococcus mutans*. *Oral Microbiol Immunol* 12: 72-76, 1997.
17. Takahashi N, Saito K, Schachtele CF, Yamada T. Acid tolerance of growth and neutralizing activity of *Porphyromonas gingivalis*, *Prevotella intermedia* and *Fusobacterium nucleatum*. *Oral Microbiol Immunol* 12: 323-328, 1997.
18. Sato T, Matsuyama J, Takahashi N, Sato M, Johnson J, Schachtele C, Hoshino E. Differentiation of oral *Actinomyces* species by 16S ribosomal DNA polymerase chain reaction-restriction fragment length polymorphism. *Arch Oral Biol* 43: 247-252, 1998.
19. Takahashi N, Yamada T. Acid-induced acidogenicity and acid tolerance of non-mutans streptococci. *Oral Microbiol Immunol* 14: 43-48, 1999.
20. Takahashi N, Yamada T. Effect of pH on the glucose and lactate metabolisms of *Actinomyces naeslundii*. *Oral Microbiol Immunol* 14: 60-65, 1999.
21. Takahashi N, Yamada T. Glucose and lactate metabolism by *Actinomyces naeslundii*. *Critic Rev Oral Biol Med* 10: 504-518, 1999.
22. Higuchi M, Yamamoto Y, Poole LB, Shimada M, Sato Y, Takahashi N, Kamio Y. Functions for two types of NADH oxidases in energy metabolism and oxidative stress of *Streptococcus mutans*. *J Bacteriol* 181: 5940-5947, 1999.
23. Takahashi N, Yamada T. Pathways for amino acid metabolism by *Prevotella intermedia* and *Prevotella nigrescens*. *Oral Microbiol Immunol* 15: 96-102, 2000.
24. Takahashi N, Yamada T. Glucose metabolism by *Prevotella intermedia* and *Prevotella nigrescens*. *Oral Microbiol Immunol* 15: 188-195, 2000.
25. Yamamoto Y, Sato Y, Takahashi-Abbe S, Takahashi N, Kizaki H. Characterization of the *Streptococcus mutans* pyruvate formate-lyase (PFL)-activating enzyme gene by complementary reconstitution of the in vitro PFL-reactivating system. *Infect Immun* 68: 4773-3777, 2000.
26. Takahashi N, Sato T, Yamada T. Metabolic pathways for cytotoxic end-product formation from glutamate- and aspartate-containing peptides by *Porphyromonas gingivalis*. *J Bacteriol* 182: 4704-4710, 2000.
27. Iwami Y, Takahashi-Abbe S, Takahashi N, Abbe K, Yamada T. Rate-limiting steps of glucose and sorbitol metabolism in *Streptococcus mutans* cells exposed to air. *Oral Microbiol Immunol* 15: 325-328, 2000.
28. Hu JP, Takahashi N, Yamada T. Copidis Rhizoma inhibits growth and proteolytic activity of oral bacteria. *Oral Diseases* 6: 297-302, 2000.
29. Matsuyama J, Sato T, Yamada T, Takahashi N. Comparison between 16S rRNA genes PCR-RFLP analysis and biochemical tests for identification of *Actinomyces naeslundii*. *Int J Oral Biol* 25: 878-91, 2000.
30. Sato T, Matsuyama J, Takahashi N. 16S rRNA genes PCR-RFLP analysis for rapid identification of oral anaerobic gram-positive bacilli. *Int J Oral Biol* 25: 83-

- 86, 2000.
31. Iwami Y, Takahashi-Abbe S, Abbe K, Takahashi N, Yamada T, Kano N, Mayanagi H. The time-course of acid excretion, levels of fluorescence dependent on cellular NADH and glycolytic intermediates of *Streptococcus mutans* cells exposed and not exposed to air at the coexistence of glucose and sorbitol. *Oral Microbiol Immunol* 16: 34-39, 2001.
  32. Takahashi-Abbe S, Abbe K, Takahashi N, Tamazawa Y, Yamada T. Inhibitory effect of sorbitol on sugar metabolism of *Streptococcus mutans in vitro* and on acid production in dental plaque *in vivo*. *Oral Microbiol Immunol* 16: 94-99, 2001.
  33. Takahashi N, Sato T. Preferential utilization of dipeptides by *Porphyromonas gingivalis*. *J Dent Res* 80: 1425-1429, 2001.
  34. 阿部昌子, 玉澤佳純, 阿部一彦, 高橋信博. 口腔内 pH 電極内臓法によるチューインガムの酸蝕性およびヒト歯垢における酸産生性の検討. 日本食品新素材研究会誌 4(2): 13-19, 2001.
  35. Saito K, Takahashi N, Horiuchi H, Yamada T. Effects of glucose on formation of cytotoxic end-products and proteolytic activity of *Prevotella intermedia* and *Prevotella nigrescens*. *J Periodontal Res* 36: 355-360, 2001.
  36. Takahashi N, Sato T. Dipeptide utilization by periodontopathic bacteria, *Porphyromonas*, *Prevotella* and *Fusobacterium*. *Oral Microbiol Immunol* 17: 50-54, 2002.
  37. Takahashi N. Biochemical approach to dental plaque ecosystem. *Tohoku Univ Dent J* 21: 18-32, 2002. (in Japanese)
  38. Tada H, Sugawara S, Nemoto E, Takahashi N, Imamura T, Potempa J, Travis J, Shimauchi H, Takada H. Proteolysis of CD14 on human gingival fibroblasts by arginine-specific cysteine proteinases (gingipains-R) from *Porphyromonas gingivalis* leading to down regulation of lipopolysaccharide-induced interleukin-8 production. *Infect Immun* 70: 3304-3307, 2002.
  39. Iwami Y, Kawarada K, Kojima I, Miyasawa H, Kakuta H, Mayanagi H, Takahashi N. Intracellular and extracellular pHs of *Streptococcus mutans* after addition of acids: loading and efflux of a fluorescent pH indicator in streptococcal cells. *Oral Microbiol Immunol* 17: 239-244, 2002.
  40. Takahashi N. Acid-neutralizing activity during amino acid fermentation by *Porphyromonas gingivalis*, *Prevotella intermedia*, and *Fusobacterium nucleatum*. *Oral Microbiol Immunol* 18: 109-113, 2003.
  41. Sato T, Matsuyama J, Kumagai T, Mayanagi G, Yamaura M, Washio J, Takahashi N. Nested PCR for detection of mutans streptococci in dental plaque. *Lett Appl Microbiol* 37: 66-69, 2003.
  42. Miyasawa H, Iwami Y, Mayanagi H, Takahashi N. Xylitol inhibition on anaerobic acid production by *Streptococcus mutans* at various pH levels. *Oral Microbiol Immunol* 18: 215-219, 2003.

43. Takahashi-Abbe S, Abe K, Takahashi N. Biochemical and functional properties of pyruvate formate-lyase (PFL)-activating system in *Streptococcus mutans*. *Oral Microbiol Immunol* 18: 293-297, 2003.
44. Sato T, Hu JP, Ohki K, Matsuyama J, Takahashi N. Identification of mutans streptococci by restriction fragment length polymorphism analysis of polymerase chain reaction-amplified 16S ribosomal RNA genes. *Oral Microbiol Immunol* 18: 323-326, 2003.
45. Kakuta H, Iwami Y, Mayanagi H, Takahashi N. Xylitol inhibition on acid-production and growth of mutans streptococci in the presence of various sugars under strictly anaerobic conditions. *Caries Res* 37: 404-409, 2003.
46. Matsuyama J, Sato T, Hoshino E, Noda T, Takahashi N. Fermentation of five sucrose isomers by human dental plaque bacteria. *Caries Res* 37: 410-415, 2003.
47. Kumamoto H, Izutsu T, Ohki K, Takahashi N, Ooya K. *p53* gene status and expression of p53, MDM2 and p14<sup>ARF</sup> proteins in ameloblastomas. *J Oral Pathol Med* 33: 292-299, 2004.
48. Kumamoto H, Takahashi N, Ooya K. *K-Ras* gene status and expression of Ras/mitogen-activated protein kinase (MAPK) signaling molecules in ameloblastomas. *J Oral Pathol Med* 33: 360-367, 2004.
49. Kato K, Sato T, Takahashi N, Fukui K, Nakagaki H. Determination of mapping the distribution pattern of cariogenic streptococci within dental plaque *in vivo*. *Caries Res* 38: 448-453, 2004.
50. Ohki K, Kumamoto H, Ichinohasama R, Sato T, Takahashi N, Ooya K. *PTC* gene mutations and expression of SHH, PTC, SMO, and FLI-1 in odontogenic keratocysts. *Int J Oral Maxillofacial Sur* 33: 584-592, 2004.
51. Mayanagi G, Sato T, Shimauchi H, Takahashi N. Detection frequency of periodontitis-associated bacteria by polymerase chain reaction in subgingival and supragingival plaque of subjects with periodontitis and healthy subjects. *Oral Microbiol Immunol* 19: 379-385, 2004.
52. Shimonishi M, Sato J, Takahashi N, Komatsu M. Expression of type IV collagen and laminin in the interface between epithelial cells and fibroblasts from human periodontal ligament. *Eur J Oral Sci* 113: 34-40, 2005.
53. Washio J, Sato T, Koseki T, Takahashi N. Hydrogen sulfide-producing bacteria in tongue coating and its relationship with oral malodor. *J Med Microbiol* 54: 889-895, 2005.
54. Yamaura M, Sato T, Echigo S, Takahashi N. Quantification and detection of bacteria from postoperative maxillary cyst by polymerase chain reaction. *Oral Microbiol Immunol* 20: 333-338, 2005.
55. Maehara H, Iwami Y, Mayanagi H, Takahashi N. Synergistic inhibition by combination of fluoride and xylitol on the glycolysis by mutans streptococci and its biochemical mechanism. *Caries Res* 39: 521-528, 2005.
56. Takahashi N. Microbial ecosystem of the oral cavity: Metabolic diversity in an

- ecological niche and its relationship with oral disease. *International Congress Series* 1284: 103 – 112, 2005.
57. Mayanagi G, Sato T, Shimauchi H, Takahashi N. Microflora profiling of subgingival and supragingival plaque of healthy and periodontitis subjects by nested PCR. *International Congress Series* 1284: 195-196, 2005.
  58. Sato R, Sato T, Takahashi I, Sugawara J, Takahashi N. Profiling of bacterial flora in crevices around titanium orthodontic anchor plates. *International Congress Series* 1284: 197-198, 2005.
  59. Washio J, Sato T, Ikawa K, Tanda N, Iwakura M, Koseki T, Takahashi N. Relationship between hydrogen sulfide-producing bacteria of the tongue coating and oral malodor. *International Congress Series* 1284: 199-200, 2005.
  60. Nakajo K, Iwami Y, Komori R, Ishikawa S, Ueno T, Suzuki Y, Takahashi N. The relationship to acidic and alkaline environments of endodontic pathogen *Enterococcus faecalis*. *International Congress Series* 1284: 191-192, 2005.
  61. Kato K, Fukui K, Nakagaki H, Sato T, Takahashi N. Density profiles of total bacteria and *S. mutans* within dental plaque treated with stannous fluoride gel. *International Congress Series* 1284: 185-186, 2005.
  62. Matsuyama J, Sato T, Washio J, Mayanagi G, Ito Y, Abiko Y, Hashimoto K, Miyasawa-Hori H, Nakajo K, Kato K, Takahashi N. PCR for detection of mutans streptococci in human dental plaque. *International Congress Series* 1284: 158-162, 2005.
  63. Miyasawa-Hori H, Aizawa S, Takahashi N. Difference in the xylitol sensitivity of acid production among *Streptococcus mutans* strains, and its biochemical mechanism. *International Congress Series* 1284: 187-188, 2005.
  64. Yamaura M, Sato T, Echigo S, Takahashi N. Quantification and detection of bacteria by PCR from postoperative maxillary cyst. *International Congress Series* 1284: 193-194, 2005.
  65. Mitani H, Takahashi I, Onodera K, Bae J-W, Sato T, Takahashi N, Sasano Y, Igarashi K, Mitani H. Comparison of age-dependent expression of aggrecan and ADAMTSs in mandibular condylar cartilage, tibial growth plate, and articular cartilage in rats. *Histochem Cell Biol* 126::371-380 2006.
  66. Miyasawa-Hori H, Aizawa S, Takahashi N. Difference in the xylitol sensitivity of acid production among *Streptococcus mutans* strains, and its biochemical mechanism. *Oral Microbiol Immunol* 21: 201-205, 2006.
  67. Nakajo K, Komori R, Ishikawa S, Ueno T, Suzuki Y, Iwami Y, Takahashi N. Resistance to acidic and alkaline environments in the endodontic pathogen *Enterococcus faecalis*. *Oral Microbiol Immunol* 21: 283-288, 2006.
  68. Sato R, Sato T, Takahashi I, Sugawara J, Takahashi N. Profiling of bacterial flora in crevice around the titanium orthodontic anchor plates. *Clin Oral Implant Res* 18: 21-26, 2007.
  69. Shimonishi M, Takahashi N, Komatsu M. In vitro differentiation of epithelial

- cells cultured from human periodontal ligament. *J Periodont Res* 42: 456-465, 2007.
70. Shimonishi M, Hatakeyama J, Sasano Y, Takahashi N, Komatsu M, Kikuchi M. Mutual induction of noncollagenous bone proteins at the interface between epithelial cells and fibroblasts from human periodontal ligament. *J Periodont Res* 43: 64-75, 2008.
  71. Shimizu K, Igarashi K, Takahashi N. Chair-side evaluation of pH-lowering activity and lactic acid production of dental plaque: correlation with caries experience and caries incidence in preschool children. *Quint Int* 39: 151-158, 2008.
  72. Takahashi N, Nyvad B. Caries ecology revisited: Microbial dynamics and the caries process. *Caries Res* 42: 409-418, 2008.
  73. Aizawa S, Miyasawa-Hori H, Nakajo K, Washio J, Fukumoto S, Takahashi N. Effects of  $\alpha$ -amylase and its inhibitors on acid production from cooked starch by oral streptococci. *Caries Res* 43: 17-24, 2009.
  74. Nakajo K, Imazato S, Takahashi Y, Kiba W, Ebisu S, Takahashi N. Fluoride released from glass-ionomer cement is responsible to inhibit acid production of oral streptococci. *Dent Mater* 25: 703-708, 2009.
  75. Horiuchi M, Washio J, Mayanagi H, Takahashi N. Transient acid-impairment of growth ability of oral *Streptococcus*, *Actinomyces* and *Lactobacillus*: a possible ecological determinant in dental plaque. *Oral Microbiol Immunol* 24: 319-324, 2009.
  76. Abiko Y, Sato T, Mayanagi G, Takahashi N. Profiling of subgingival plaque biofilm microflora from healthy and periodontitis subjects by quantitative real-time PCR. *J Periodont Res* 45: 389-395, 2010.
  77. Nakajo K, Takahashi N, Beighton D. Resistance to acidic environments of caries-associated bacteria: *Bifidobacterium dentium* and *Bifidobacterium longum*. *Caries Res* 44: 431-437, 2010.
  78. Takahashi N, Washio J, Mayanagi G. Metabolomics of supragingival plaque and oral bacteria. *J Dent Res* 89: 1383-1388, 2010.
  79. Washio J, Mayanagi G, Takahashi N. Challenge to metabolomics of oral biofilm – from "what are they?" to "what are they doing?" – *J Oral Biosci* 52(3): 225-232, 2010.
  80. Kumagami T, Shimizu K, Igarashi K, Takahashi N. Ammonia concentration and pH-lowering activity of marginal dental plaque from teeth with and without periodontitis. *J Dent Health* 60: 563-568, 2010.
  81. Miyoshi Y, Watanabe M, Takahashi N. Autoactivation of proteolytic activity in human whole saliva. *J Oral Biosci* 52: 402-408, 2010.
  82. Masaki M, Sato T, Sugawara Y, Sasano T, Takahashi N. Detection and identification of non-*Candida albicans* species in human oral lichen planus. *Microbiol Immunol* 55: 66-70, 2011.

83. Takahashi N, Nyvad B. The role of bacteria in the caries process: ecological perspectives. *J Dent Res* 90: 294-303, 2011.
84. Izutani N, Imazato S, Nakajo K, Takahashi N, Takahashi Y, Ebisu S, Russell RRB. Effects of antibacterial monomer 12-methacryloyloxydodecylpyridinium bromide (MDPB) on bacterial viability and metabolism. *Eur J Oral Sci* 119: 175-181, 2011.
85. Hashimoto K, Sato T, Shimauchi H, Takahashi N. Profiling of dental plaque microflora on root caries lesions and the protein-denaturing activity of these bacteria. *Am J Dent* 24: 295-299, 2011.
86. Mayanagi G, Igarashi K, Washio J, Nakajo K, Domon-Tawaraya H, Takahashi N. Evaluation of pH at the bacteria-dental cement interface. *J Dent Res* 90: 1446-1450, 2011.
87. Takahashi N, Washio J. Metabolomic approach to oral biofilm: effects of fluoride and xylitol. *J Dent Res* 90: 1463-1468, 2011.
88. Sato T, Kenmotsu S, Nakakura-Ohshima K, Takahashi N, Ohshima H. Responses of infected dental pulp to  $\alpha$  TCP containing antimicrobials in rat molars. *Arch Histol Cytol* 73: 165-175, 2011.
89. Ito Y, Sato T, Yamaki K, Mayanagi G, Hashimoto K, Shimauchi H, Takahashi N. Microflora profiling of infected root canal before and after treatment using culture-independent methods. *J Microbiol* 50: 58-62, 2012.
90. Takeuchi Y, Nakajo K, Sato T, Koyama S, Sasaki K, Takahashi N. Quantification and identification of bacteria in acrylic resin denture bases and dento-maxillary obturator-prostheses. *Am J Dent* 25: 171-175, 2012.
91. Sato T, Yamaki K, Ishida N, Hashimoto K, Takeuchi Y, Shoji M, Sato E, Matsuyama J, Shimauchi H, Takahashi N. Cultivable anaerobic microbiota of infected root canals. *Int J Dent* Volume 2012, Article ID 609689, 5 pages, 2012. April
92. Sato T, Yamaki K, Ishida N, Shoji M, Sato E, Abiko Y, Hashimoto K, Takeuchi Y, Matsuyama J, Shimauchi H, Takahashi N. Rapid quantification of bacteria in infected root canals using fluorescence filter: A pilot study on its clinical application to the evaluation of the outcomes of endodontic treatment. *Int J Dent* Volume 2012, Article ID 172935, 4 pages, 2012. May
93. Komori R, Sato T, Takano-Yamamoto T, Takahashi N. Microbial composition of dental plaque microflora on first molars with orthodontic bands and brackets, and the acidogenic potential of these bacteria. *J Oral Biosci* 54: 107-112, 2012.
94. Ma S, Imazato S, Chen J-H, Mayanagi G, Takahashi N, Ishimoto T, Nakano T. Effects of a coating resin containing S-PRG filler to prevent demineralization of root surfaces. *Dent Mater J* 31: 909-915, 2012.
95. Takahashi N, Washo J, Mayanagi G. Metabolomic approach to oral biofilm characterization – A future direction to biofilm research –. *J Oral Biosci* 54: 138-143, 2012.

96. Domon-Tawaraya H, Nakajo K, Washio J, Ashizawa T, Ichino T, Sugawara H, Fukumoto S, Takahashi N. Divalent cations enhance short-time fluoride exposure-induced inhibition on acid production by oral streptococci. *Caries Res* 47: 141-149, 2013.
97. Nyvad B, Crielaard W, Mira A, Takahashi N, Beighton D. Dental caries from a molecular microbiological perspective. *Caries Res* 47: 89-102, 2013.
98. Sakuma Y, Washio J, Sasaki K, Takahashi N. A high-sensitive and non-radioisotopic fluorescence dye method for evaluating bacterial adhesion to dental materials. *Dent Mater J* 32: 585-591, 2013.
99. Kawashima J, Nakajo K, Washio J, Mayanagi G, Shimauchi H, Takahashi N. Fluoride-sensitivity of growth and acid production of oral *Actinomyces*: comparison with oral *Streptococcus*. *Microbiol Immunol* 57: 797-804, 2013.
100. Hong G, Sasaki K, Takahashi N, Osaka K: The internationalization strategy in the postgraduate education of Tohoku University Graduate School of Dentistry - Possibility of a Double Degree Program --. *The Journal of Japanese Dental Education Association* 29(1): 49-54, 2013.
101. Mayanagi G, Igarashi K, Washio J, Domon-Tawaraya H, Takahashi N. Effect of fluoride-releasing restorative materials on bacteria-induced pH fall at the bacteria-material interface: An in vitro model study. *J Dent* 42: 15-20, 2014.
102. Fukushima A, Mayanagi G, Nakajo K, Sasaki K, Takahashi N. Microbiologically induced corrosive properties of the titanium surface. *J Dent Res* 93: 525-529, 2014.
103. Nakajo K, Takahashi M, Kikuchi M, Takada Y, Okuno O, Sasaki K, Takahashi N. Inhibitory effect of Ti-Ag alloy on artificial biofilm formation. *Dent Mater J* 33: 389-393, 2014.
104. Hasegawa A, Sato T, Hoshikawa Y, Ishida N, Tanda N, Kawamura Y, Kondo T, Takahashi N. Detection and identification of oral anaerobes from intraoperative bronchial fluids of patients with pulmonary carcinoma. *Microbiol Immunol* 118: 218-225, 2014.
105. Washio J, Shimada Y, Yamada M, Sakamaki R, Takahashi N. Hydrogen sulfide production by oral *Veillonella*: effect of pH and lactate. *Appl Environ Microbiol* 80: 4184-4188, 2014.
106. Ogawa T, Washio J, Takahashi T, Echigo S, Takahashi N. Glucose and glutamine metabolism in oral squamous cell carcinoma: insight from a quantitative metabolomic approach. *Oral Surg Oral Med Oral Pathol Oral Radiol* 118: 218-225, 2014.
107. Tian L, Sato T, Niwa K, Kawase M, Tanner ACR, Takahashi N. Rapid and sensitive PCR-dipstick DNA chromatography for multiplex analysis of oral microbiota. *Bio Med Res Int*, Volume 2014, Article ID 180323, 10 pages, 2014.
108. Matsuo H, Suenaga H, Suzuki O, Sasaki K, Takahashi N. Deterioration of polymethyl methacrylate dentures in the oral cavity. *Dent Mater J* 34: 234-239,

- 2014.
109. Ishida N, Sato T, Hoshikawa Y, Tanada N, Sasaki K, Kondo T, Takahashi N. Microbiota profiling of bronchial fluids of elderly patients with pulmonary carcinoma. *J Oral Biosci* 57: 110–117, 2014.
  110. Tanda N, Hinokio Y, Washio J, Takahashi N, Koseki T. Analysis of ketone bodies in exhaled breath and blood of ten healthy Japanese at OGTT using a portable gas chromatograph. *J Breath Res* 2014 Nov 24; 8(4): 046008.
  111. Ishiguro K, Washio J, Sasaki K, Takahashi N. Real-time monitoring of the metabolic activity of periodontopathic bacteria. *J Microbiol Methods* 115: 22-26, 2015.
  112. Norimatsu Y, Kawashima J, Takano-Yamamoto T, Takahashi N. Nitrogenous compounds stimulate glucose-derived acid production by oral *Streptococcus* and *Actinomyces*. *Microbiol Immunol* 59: 501-506, 2015.
  113. Sato T, Tomida J, Naka T, Fujiwara N, Hasegawa A, Hoshikawa Y, Matsuyama J, Ishida N, Kondo T, Tanaka K, Takahashi N, Kawamura Y. *Porphyromonas bronchialis* sp. nov. isolated from intraoperative bronchial fluids of a patient with non-small cell lung cancer. *Tohoku J Exp Med* 237: 31-37, 2015.
  114. Takahashi N. Oral microbiome metabolism: From "who are they?" to "what are they doing?". *J Dent Res* 94: 1628-1637, 2015.
  115. Tanda N, Hoshikawa Y, Ishida N, Sato T, Takahashi N, Hosokawa R, Koseki T. Oral malodorous gases and oral microbiota: from halitosis to carcinogenesis. *J Oral Biosci* 57: 175–178, 2015.
  116. Tian L, Sato T, Niwa K, Kawase M, Mayanagi G, Washio J, Takahashi N. PCR-dipstick DNA chromatography for profiling of a subgroup of caries associated bacterial species in plaque from healthy coronal surfaces and periodontal pockets. *Biomed Res* 37: 29-36, 2016.
  117. Washio J, Ogawa T, Suzuki K, Tsukiboshi Y, Watanabe M, Takahashi N. Amino acid composition and amino acid-metabolic network in supragingival plaque. *Biomed Res* 37: 251-257, 2016.
  118. Abiko Y, Sato T, Sakashita R, Tomida J, Kawamura Y, Takahashi N. Profiling subgingival microbiota of plaque biofilms in the elderly. *J Oral Biosci* 58: 62-65, 2016.
  119. Washio J, Takahashi N. Metabolomic studies of oral biofilm, oral cancer, and beyond. *Int J Mol Sci* 17(6), art. no. 870, 13 p, 2016.
  120. Kawashita M, Endo N, Watanabe T, Miyazaki T, Furuya M, Yokota K, Abiko Y, Kanetaka H, Takahashi N. Formation of bioactive N-doped TiO<sub>2</sub> on Ti with visible light-induced antibacterial activity using NaOH, hot water, and subsequent ammonia atmospheric heat treatment. *Colloids and Surfaces B: Biointerfaces* 145: 285-290, 2016.
  121. Takahashi N, Nyvad B. Ecological hypothesis of dentin and root caries. *Caries Res* 50: 422-431, 2016.

122. Yamamoto Y, Washio J, Shimizu K, Igarashi K, Takahashi N. Inhibitory effects of nitrite on acid production in dental plaque in children. *Oral Health Prev Dent* 15: 153-156, 2017.
123. Mayanagi G, Igarashi K, Washio J, Takahashi N. pH response and tooth surface solubility at the tooth/bacteria interface. *Caries Res* 51: 160-166, 2017.
124. Nascimento MM, Zaura E, Mira A, Takahashi N, ten Cate JM. Second era of OMICS in caries research: Moving past the phase of disillusionment. *J Dent Res* 96: 733-740, 2017.
125. Morishima H, Washio J, Kitamura J, Shinohara Y, Takahashi T, Takahashi N. Real-time monitoring system for evaluating the acid-producing activity of oral squamous cell carcinoma cells at different environmental pH. *Sci Rep* 7(1), art. no. 10092, 2017.
126. Fukushima A, Mayanagi G, Sasaki K, Takahashi N. Corrosive effects of fluoride on titanium under artificial biofilm. *J Prosthodont Res* 62: 104-109, 2018.
127. Kitagawa H, Miki-Oka S, Mayanagi G, Abiko Y, Takahashi N, Imazato S. Inhibitory effect of resin composite containing S-PRG filler on *Streptococcus mutans* glucose metabolism. *J Dent* 70: 92-96, 2018.
128. Tanda N, Hoshikawa Y, Sato T, Takahashi N, Koseki T. Exhaled acetone and isoprene in perioperative lung cancer patients under intensive oral care. *Biomed Res* 40(1): 29-36, 2019.
129. Ishiguro T, Mayanagi G, Azumia M, Otani H, Fukushima A, Sasaki K, Takahashi N. Sodium fluoride and silver diamine fluoride-coated tooth surfaces inhibit bacterial acid production at the bacteria/tooth interface. *J Dent* 84: 30-35, 2019.
130. Manome A, Abiko Y, Kawashima J, Washio J, Fukumoto S, Takahashi N. Acidogenic potential of oral Bifidobacterium and its high fluoride tolerance. *Front Microbiol* 10: 1099, 2019.
131. Tagaino R, Washio J, Abiko Y, Tanda N, Sasaki K, Takahashi N. Metabolic property of acetaldehyde production from ethanol and glucose by oral *Streptococcus* and *Neisseria*. *Sci Rep* 9(1): 10446, 2019.
132. Sano H, Wakui A, Kawachi M, Kato R, Moriyama S, Nishikata M, Washio J, Abiko, Y, Mayanagi G, Yamaki K, Sakashita R, Tomida J, Kawamura Y, Tanaka K, Takahashi N, Sato T. Profiling of microbiota in liquid baby formula consumed with an artificial nipple. *Biomed Res* 40(4): 163-168, 2019.
133. Mashima I, Miyoshi-Akiyama T, Tomida J, Kutsuna R, Washio J, Takahashi N, Nakazawa F, Sato T, Kawamura Y. Draft Genome Sequences of two *Veillonella tobetsuensis* clinical isolates from intraoperative bronchial fluids of elderly patients with pulmonary carcinoma. *Microbiol Resour Announc* 8(38).pii: e00397-19, 2019.
134. Tanda N, Washio J, Kamei T, Akazawa K, Takahashi N, Koseki T. Professional oral care reduces carcinogenic acetaldehyde levels in mouth air of perioperative esophageal cancer patients: A prospective comparative study. *Tohoku J Exp Med*

- 249(1): 75-83, 2019.
135. Furiya-Sato S, Fukushima A, Mayanagi G, Sasaki K, Takahashi N. Electrochemical evaluation of the hydrogen peroxide- and fluoride-induced corrosive property and its recovery on the titanium surface. *J Prosthodont Res* pii: S1883-1958(19)30042-8, 2019.
  136. Zou W, Hong G, Yamazaki Y, Takase K, Ogawa T, Washio J, Takahashi N, Sasaki K. Use of cellulose nanofibers as a denture immersing solution. *Dent Mater J* 39(1): 80-88, 2020.
  137. Nyvad B, Takahashi N. Integrated hypothesis of dental caries and periodontal diseases. *J Oral Microbiol* 12(1): 1710953, 2020.
  138. Kameda M, Abiko Y, Washio J, Tanner ACR, Kressirer CA, Mizoguchi I, Takahashi N. Sugar metabolism of *Scardovia wiggsiae*, a novel caries-associated bacterium. *Front Microbiol* 11: 479, 2020.
  139. Wicaksono DP, Washio J, Abiko Y, Domon H, Takahashi N. Nitrite production from nitrate and its link with lactate metabolism in oral *Veillonella* spp. *Appl Environ Microbiol* 86(20): e01255-20, 2020.
  140. Sato-Suzuki Y, Washio J, Wicaksono DP, Sato T, Fukumoto S, Takahashi N. Nitrite-producing oral microbiome in adults and children. *Sci Rep* 10(1): 16652, 2020.
  141. Han S, Abiko Y, Washio J, Luo Y, Zhang L, Takahashi N. Green tea-derived epigallocatechin gallate inhibits acid production and promotes the aggregation of *Streptococcus mutans* and non-mutans streptococci. *Caries Res* 55(3): 205-214, 2021.
  142. Wakui A, Sano H, Hirabuki Y, Kawachi M, Aida A, Washio J, Abiko Y, Mayanagi G, Yamaki K, Tanaka K, Takahashi N, Sato T. Profiling of microbiota at the mouth of bottles and in remaining tea after drinking directly from plastic bottles of tea. *Dent J (Basel)* 9(6): 58, 2021.
  143. Wakui A, Sano H, Kawachi M, Aida A, Takenaka Y, Yonezawa A, Nakahata N, Moriyama S, Nishikata M, Washio J, Abiko Y, Mayanagi G, Yamaki K, Sakashita R, Tanaka K, Takahashi N, Sato T. Bacterial concentration and composition in liquid baby formula and a baby drink consumed with an artificial nipple. *J Oral Biosci* 63(2): 161-168, 2021.
  144. Hihara H, Tagaino R, Washio J, Laosuwan K, Wicaksono DP, Izumita K, Koide R, Takahashi N, Sasaki K. Effectiveness and safety of a new dental plaque removal device utilizing micro mist spray for removing oral biofilm in vitro. *BMC Oral Health* 21(1): 286, 2021.
  145. Tagaino R, Washio J, Otani H, Sasaki K, Takahashi N. Bifacial biological effects of ethanol: acetaldehyde production by oral *Streptococcus* species and the antibacterial effects of ethanol against these bacteria. *J Oral Microbiol* 13(1): 1937884, 2021.
  146. Sano H, Wakui A, Kawachi M, Washio J, Abiko Y, Mayanagi G, Yamaki K,

- Tanaka K, Takahashi N, Sato T. Profiling system of oral microbiota utilizing polymerase chain reaction-restriction fragment length polymorphism analysis. *J Oral Biosci* 63(3): 292-297, 2021.
147. Shinohara Y, Washio J, Kobayashi Y, Abiko Y, Sasaki K, Takahashi N. Hypoxically cultured cells of oral squamous cell carcinoma increased their glucose metabolic activity under normoxic conditions. *PLoS One* 16(10): e0254966, 2021.
  148. Mayanagi G, Yufang L, Hoshino T, Takahashi N. A water-soluble glass-based temporary restorative resin inhibited bacteria-induced pH reductions at the bacteria-material interface. *Dent Mater J* 41(1): 95-100, 2022.
  149. Liu S, Washio J, Sato S, Abiko Y, Shinohara Y, Kobayashi Y, Otani H, Sasaki S, Wang X, Takahashi N. Rewired cellular metabolic profiles in response to metformin under different oxygen and nutrient conditions. *Int J Mol Sci* 23(2): 989, 2022.
  150. Rosier BT, Takahashi N, Zaura E, Krom BP, MartÍnez-Espinosa RM, van Breda SGJ, Marsh PD, Mira A. The importance of nitrate reduction for oral health. *J Dent Res* 101(8): 887-897, 2022.
  151. Yokoyama-Sato Y, Nishioka T, Naganuma Y, Takahashi M, Nakagawa A, Yoda N, Sasaki K, Takahashi N, Tominaga T, Iikubo M. Effectiveness of an actuator-driven pulsed water jet for removal of softened carious dentin. *Dent Mater J* 41(4): 527-533, 2022.
  152. Tanda N, Tada H, Washio J, Takahashi N, Ishida T, Koseki T. Influence of alcohol sensitivity on bone metastases and skeletal-related events in primary operable breast cancer: A retrospective cohort study. *PLoS One* 17(6): e0269335, 2022.
  153. Kurniawan FKD, Roestamadji RI, Takahashi N, Tedjosasongko U, Narmada IB, Surboyo MDC, Diyatri I. Oral microbiome profiles and inflammation in pregnant women who used orthodontic appliances. *Dent J (Basel)* 10(7): 118, 2022.
  154. Jiang X, Wang Y, Li X, Feng Z, Zeng Y, Han S, Takahashi N, Zhang L. Development and evaluation of a chewing gum containing antimicrobial peptide GH12 for caries prevention. *Eur J Oral Sci* 130(5): e12887, 2022.
  155. Maruyama S, Sano H, Wakui A, Kawachi M, Kaku N, Takahashi N, Miyazawa M, Abe T, Sato A, Washio J, Abiko Y, Mayanagi G, Tanaka K, Takahashi N, Sato T. Microbiota profiles on the surface of non-woven fabric masks after wearing. *J Oral Biosci* 64(3): 376-379, 2022.
  156. Kawachi M, Wakui A, Kaku N, Takahashi N, Maruyama S, Washio J, Abiko Y, Mayanagi G, Tanaka K, Takahashi N, Sato T. Profiling of the microbiota in the remaining sports drink and orange juice in plastic bottles after direct drinking. *J Oral Biosci* 64(4): 437-444, 2022.
  157. Li X, Wang Y, Jiang X, Zeng Y, Zhao X, Washio J, Takahashi N, Zhang L. Investigation of drug resistance of caries-related streptococci to antimicrobial

- peptide GH12. *Front Cell Infect Microbiol* 12:991938, 2022.
158. Sano H, Wakui A, Kawachi M, Maruyama S, Moriyama S, Nishikata M, Washio J, Abiko Y, Mayanagi G, Sakashita R, Tanaka K, Takahashi N, Sato T. Profiling of the microbiota of breast milk before and after feeding with an artificial nipple. *J Oral Biosci* 64(4): 431-436, 2022.
  159. Wang Y, Zeng Y, Feng Z, Li Z, Jiang X, Han S, Washio J, Takahashi N, Zhang L. Combined treatment with fluoride and antimicrobial peptide GH12 efficiently controls caries in vitro and in vivo. *Caries Res* 56(5-6): 524-534, 2022.
  160. Okubo S, Ozeki Y, Yamada T, Saito K, Ishihara N, Yanagida Y, Mayanagi G, Washio J, Takahashi N. Facile fabrication of all-solid-state ion-selective electrodes by laminating and drop-casting for multi-sensing. *Electrochemistry* 90(72022): 077001, 2022.
  161. Huang G, Chen S, Washio J, Paka Lubamba G, Takahashi N, Li C. Glycolysis-related gene analyses indicate that DEPDC1 promotes the malignant progression of oral squamous cell carcinoma via the WNT/ $\beta$ -catenin signaling pathway. *Int J Mol Sci* 24(3): 1992, 2023.
  162. Sakurai I, Mayanagi G, Yamada S, Takahashi N. In situ detection of endogenous proteolytic activity and the effect of inhibitors on tooth root surface. *J Dent* 131: 104471, 2023.
  163. Hong G, Hung CC, Mayanagi G, Nishioka T, Sun L, Lai EH, Lan TH, Sasaki K, Takahashi N. Questionnaire survey on the satisfaction of SimEx dental education system. *J Dent Sci* 18(2): 840-847, 2023.
  164. Takahashi N. Future perspectives in the study of dental caries. *Monogr Oral Sci* 31: 221-233, 2023.
  165. Han S, Washio J, Abiko Y, Zhang L, Takahashi N. Green tea-derived catechins suppress the acid productions of *Streptococcus mutans* and enhance the efficiency of fluoride. *Caries Res* 57(3): 255-264, 2023.
  166. Yamada T, Kanda K, Yanagida Y, Mayanagi G, Washio J, Takahashi N. Fluoride ion sensor based on LaF<sub>3</sub> nanocrystals prepared by low-temperature process. *J Ceramic Soc Japan* 131(3): 31-361, 2023.
  167. Yamada T, Kanda K, Yanagida Y, Mayanagi G, Washio J, Takahashi N. All-solid-state fluoride ion-selective electrode using LaF<sub>3</sub> single crystal with poly(3,4-ethylenedioxythiophene) as solid contact layer. *Electroanalysis* 35(4): e202200103, 2023.
  168. Washio J, Abiko Y, Sato T, Takahashi N. Lactic acid bacteria in the human oral cavity: Assessing metabolic functions relevant to oral health and disease. *Methods Mol Biol* 2851: 151-172, 2024.
  169. Higuchi M, Abiko Y, Washio J, Takahashi N. Antimicrobial effects of epigallocatechin-3-gallate, a catechin abundant in green tea, on periodontal disease-associated bacteria. *Arch Oral Biol* 167: 106063, 2024.
  170. Kaku N, Kawachi M, Wakui A, Miyazawa M, Imai M, Takahashi N, Sato A, Abe

- T, Sato H, Kato Y, Okabe R, Naruse Y, Sato N, Asano N, Morohashi M, Sano H, Washio J, Abiko Y, Tanaka K, Takahashi N, Sato T. Molecular microbiological profiling of bottled unsweetened tea beverages: A screening experiment. *J Oral Biosci* 66(3): 628-632, 2024.
171. Zhang JS, Huang S, Chen Z, Chu CH, Takahashi N, Yu OY. Application of omics technologies in cariology research: A critical review with bibliometric analysis. *J Dent* 141: 104801, 2024.
  172. Kanda K, Yamada T, Yanagida Y, Kubota Y, Matsushita N, Mayanagi G, Washio J, Takahashi N. Electrochemical difference between single- and poly-crystalline LaF<sub>3</sub> for a compact and low-price fluoride ion sensor. *Electroanalysis* 36(4): e202300318, 2024.
  173. Fushimi K, Watanabe J, Yamada M, Washio J, Takahashi N, Egusa H. Effects of flushing of dental waterlines in portable dental units on water quality management. *J Dent Sci* 19: S61-S69, 2024.
  174. Yamamoto Y, Washio J, Shimizu K, Takahashi N. Effects of nitrate and nitrite on plaque pH decrease and nitrite-producing and -degrading activities of plaque in vitro. *Caries Res* 58(6): 552-561, 2024.
  175. Takahashi N, Wakui A, Sekizawa Y, Kawachi M, Sekiguchi M, Abe T, Sato A, Miyazawa M, Imai M, Kaku N, Maruyama S, Sano H, Kakiyama N, Washio J, Abiko Y, Tanaka K, Takahashi N, Sato T. Profiling of the microbes on the surface of smartphone touchscreens. *J Oral Biosci* 67(1): 100607, 2025.
  176. Han S, Wang J, Wang HS, Yu P, Wang L, Ou Y, Ding L, Washio J, Takahashi N, Zhang L. Extracellular Z-DNA enhances cariogenicity of biofilm. *J Dent Res* (in press)
  177. Otake T, Washio J, Ezoe K, Sato S, Abiko Y, Igarashi K, Takahashi N. The effect of environmental factors on the nitrate and nitrite metabolism of oral *Actinomyces* and *Schaalia* species. *Oral Mol Microbiol* (in press)
  178. Mousa HRF, Abiko Y, Washio J, Sato S, Takahashi N. *Candida albicans* and NCAC species: acidogenic and fluoride-resistant oral inhabitants. *J Oral Microbiol* (in press)

## 【著 書】

1. Flavins and flavoproteins. Higuchi M, Yamamoto Y, Poole L, Shimada M, Sato Y, Takahashi N, Kamio Y (担当: 分担執筆, 範囲: Functional and regulatory studies of two distinct NADH oxidases from *Streptococcus mutans*). Rudolf Weber/Agency for Scientific Publications, 1999.
2. 先端医療シリーズ・歯科医学2 歯周病－新しい治療を求めて. 高橋信博 (担当: 分担執筆, 範囲: 歯肉縁下プラークという生態系). 先端医療技術研究所 2000年.
3. 一般医化学改訂 (第7版). 菊地吾郎, 立木蔚, 山田正, 柴原茂樹, 田村眞理, 高橋信博 (担当: 共著, 範囲: 一般医化学改訂 (第7版), 1-391). 南山堂 2002年4月.
4. 分子生物学歯科小事典. 西澤俊樹, 花田信弘, 今井奨, 西原達次 ed. 高橋信博

- 他 (担当: 分担執筆, 範囲: 分子生物学歯科小事典, 1-469). 口腔保健協会 2003年4月.
5. 口腔生化学 (第4版). 木崎治俊, 畑隆一郎, 高橋信博, 宇田川信之 (担当: 共著, 範囲: 口腔生化学 (第4版), 1-378). 医歯薬出版 2005年4月.
  6. 新・う蝕の科学. 浜田茂幸, 大嶋隆 ed. 高橋信博 (担当: 分担執筆, 範囲: ミュータンスレンサ球菌の糖代謝, 55-66). 医歯薬出版 2006年5月.
  7. シンプル生化学 第6版. 高橋信博 (担当: 分担執筆, 範囲: 21-9硬組織). 南江堂 2007年2月.
  8. Interface Oral Health Science 2007. Watanabe M, Okuno I, Sasaki K, Suzuki O, Takahashi N ed. (担当: 編者). Springer 2007年12月.
  9. う蝕学—チェアサイドの予防と回復のプログラム—. 高橋信博 (担当: 分担執筆, 範囲: 第5章 う蝕とミュータンスレンサ球菌). 2008年.
  10. 歯科衛生士別冊 クイズう蝕&歯周病の基礎知識100—解いて理解して歯科衛生士臨床パワーアップ—. 高橋信博 (担当: 分担執筆, 範囲: う蝕編). クインテッセンス 2009年.
  11. 最新歯科衛生士教本 人体の構造と機能2 栄養と代謝. 高橋信博, 江指隆年 (担当: 編者, 分担執筆). 医歯薬出版 2010年.
  12. Interface Oral Health Science 2009. Sasano T, Suzuki O (ed), Stashenko P, Sasaki K, Takahashi N, Kawai T, Tabman MA, Margolis HC, (assoc ed) (担当: 編者). Springer 2010年.
  13. 口腔生化学 第5版. 高橋信博 (担当: 共著, 範囲: 唾液の生化学・プラークの生化学・齲蝕の生化学). 医歯薬出版 2011年.
  14. 歯学英和辞典. 高橋信博 (担当: 分担執筆). 研究社 2012年.
  15. Dental Caries: The Disease and its Clinical Management, 3rd Edition. Marsh PD, Takahashi N, Nyvad B (担当: 分担執筆, 範囲: Chapter 7: Biofilms in caries development). Wiley-Blackwell 2015年6月.
  16. Interface Oral Health Science 2016: Innovative Research on Biosis-Abiosis Intelligent Interface. Sasaki K, Suzuki O, Takahashi N (担当: 編者). 2017年.
  17. 歯科衛生士国家試験問題研究会 (編) 「歯科衛生士国家試験予想問題集第2版—新出題基準準拠—」. 高橋信博 (担当: 分担執筆). 医歯薬出版 2018年3月.
  18. 口腔生化学第6版. 高橋信博 (担当: 共著, 範囲: 第9章 唾液の生化学 (231-248), 第10章 プラークの生化学 (249-269), 第11章 齲蝕の生化学 (271-294)). 医歯薬出版 2018年9月.
  19. 最新歯科衛生士教本用語集ポケット版. 高橋信博 (担当: 分担執筆) 医歯薬出版 2019年3月.
  20. 最新歯科衛生士教本用語集. 高橋信博: (担当: 編者, 分担執筆). 一般社団法人 全国歯科衛生士教育協議会監修, 医歯薬出版, 2019年.
  21. シンプル生化学 第7版. 高橋信博 (担当: 分担執筆, 範囲: 24-9硬組織). 南江堂 2020年2月.
  22. ポリフェノールの機能と多角的応用. 鷲尾純平, 安彦友希, 高橋信博: (担当: 分担執筆, 範囲: 第IV編 抗菌・抗ウイルス機能, 第1章 緑茶カテキンのう蝕予防

- 効果)。シーエムシー出版. 2022 年.
23. 歯科衛生学辞典. 眞木吉信, 阿部伸一, 有地淑子, 池田利恵, 高阪利美, 小関健由, 小松知子, 佐藤 聡, 里見貴史, 白鳥たかみ, 高橋信博, 玉木裕子, 戸原 玄, 豊澤 悟, 西井 康, 星野倫範, 弘中祥司, 深山治久, 松村英雄, 三浦宏子, 横瀬敏志: (担当: 編者, 分担執筆). 一般社団法人 全国歯科衛生士教育協議会監修, 永末書店. 2022 年.
  24. Dental Caries: The Disease and its Clinical Management, 4th Edition. Takahashi N, Nyvad B (担当: 分担執筆, 範囲: Chapter 7: Functions of the oral microbiome in caries and how they can be controlled). Wiley-Blackwell 2024年10月.
  25. 歯科衛生学シリーズ 歯科予防処置論・歯科保健指導論 第2版. 高橋信博: (担当: 分担執筆). 一般社団法人 全国歯科衛生士教育協議会監修, 医歯薬出版, 2024 年 (印刷中).
  26. 歯科衛生学シリーズ 生化学・口腔生化学 初版. 高橋信博: (担当: 編者, 分担執筆). 一般社団法人 全国歯科衛生士教育協議会監修, 医歯薬出版, 2025年 (印刷中).
  27. Oral Microbiome - Symbiosis, dysbiosis and microbiome interventions for maintaining oral and systemic health. Washio J, Takahashi N (担当: 分担執筆, 範囲: Nitrite production from nitrate in the oral microbiome and its contribution to oral and systemic health). Springer Nature 2025年 (印刷中).

#### 【受賞】

1. International Association for Dental Research Travel Award (1993 年)
2. 歯科基礎医学会賞 (1998 年)
3. Yngve Ericsson Prize (2019 年)