

歯科理工学講座
(Department of Biomaterials)

教育研究原著論文

1) 印刷公表

1. Yang Y, Zhang H, Komasa S, Kusumoto T, Kuwamoto S*, Okunishi T*, Kobayashi Y*, Hashimoto Y, Sekino T*, Okazaki J. Immunomodulatory properties and osteogenic activity of polyetheretherketone coated with titanate nanonetwork structures. *Int J Mol Sci* 2022;23(2):doi 10.3390/ijms23020612.
2. Li M, Komasa S, Hontsu S*, Hashimoto Y, Okazaki J. Structural characterization and osseointegrative properties of pulsed laser-deposited fluorinated hydroxyapatite films on nano-zirconia for implant applications. *Int J Mol Sci* 2022;23(5):doi:10.3390/ijms23052416.
3. Ma L, Li M, Komasa S, Yan S, Yang Y, Nishizaki M, Chen L, Zeng Y, Wang X, Yamamoto E*, Hontsu S*, Hashimoto Y, Okazaki J. Characterization of hydroxyapatite film obtained by Er:YAG pulsed laser deposition on sandblasted titanium: an in vitro study. *Materials* 2022;15(6):doi 10.3390/ma15062306.
4. Furumori T, Ueda M, Honda Y, Hashimoto Y, Tanioka T, Kusano K, Baba S. The effect of different surgical instruments for bone regeneration under the surgery of bone defect on rat calvaria. *J Hard Tissue Biol* 2022;31(2):63–70.
5. Yokoyama T, Imai K, Hashimoto Y. Comparison of cell viability between mouse-derived ES-D3 cells and Balb/c 3T3 cells using denture-base lining materials. *Dent Mater J* 2022;41(3):481–486.
6. Nakai M, Imai K, Hashimoto Y. Cell viability of fine powders in hybrid resins and ceramic materials for CAD/CAM. *Dent Mater J* 2022;41(3):495–505.
7. Yamada S*, Yukawa H*, Yamada K*, Murata Y*, Jo J, Yamamoto M*, Sugawara-Narutaki A*, Tabata Y*, Baba Y*. In vivo multimodal imaging of stem cells using nanohybrid particles incorporating quantum dots and magnetic nanoparticles. *Sensors* 2022;22(15):doi 10.3390/s22155705.
8. Zhang Y, Jo J, Chen L, Hontsu S*, Hashimoto Y. Effect of hydroxyapatite coating by Er: YAG pulsed laser deposition on the bone formation efficacy by polycaprolactone porous scaffold. *Int J Mol Sci* 2022;23(16):doi 10.3390/ijms23169048.
9. Kinoshita Y*, Takafuji Y*, Okumoto K*, Takada Y*, Ehara H*, Mizukami Y*, Kawao N*, Jo J, Tabata Y*, Kaji H*. Irisin improves delayed bone repair in diabetic female mice. *J Bone Miner Metab* 2022;40(5):735–747.
10. Konegawa Y*, Kuwahara T*, Jo J, Murata K*, Takeda T*, Ikeda T*, Minatoya K*, Masumoto H*, Tabata Y*. Pioglitazone-incorporated microspheres targeting macrophage polarization alleviates cardiac dysfunction after myocardial infarction. *Eur J Cardiothorac Surg* 2022;62(5):doi 10.1093/ejcts/ezac414.
11. Nakai M, Hashimoto Y, Wang J, Tan C, Masuda Y, Imai K, Okusa N. Effect of fine powdered hybrid resin blocks for CAD/CAM crowns on rodent-derived cells. *J Oral Tissue Engin* 2022;20(2):55–64.

12. Shirai T, Hashimoto Y, Masuda Y, Wang J, Tan C, Ueda M, Jin K, Kaji K, Maesoma A, Onishi A, Ogata Y, Imai K. Influence of Bis-GMA and camphorquinone phototoxicity level by the distance between the light source in the LED-type irradiator and Balb/c 3T3 cells. *Nano Biomed* 2022;14(2):61–66.
13. Imai K, Masuda Y, Wang J, Tan C, Ueda M, Jin K, Kaji K, Ashida R, Yonezawa M, Hashimoto Y. Comparison of cell viability between ES-D3 cells and Balb/c 3T3 cells by pressurized cell culture using a centrifugal incubator. *Nano Biomed* 2022;14(2):67–72.
14. Akiyama M. Elastic fibers and F-Box and WD-40 domain-containing protein 2 in bovine periosteum and blood vessels. *Biomimetics* 2022;8(1):doi 10.3390/biomimetics8010007.

総説

1. 橋本 典也. iPS細胞由来間葉系幹細胞を用いた広域顎骨組織欠損再生. 歯界展望 2022;特別号:135–136.
2. 橋本 典也. プレミックスタイプMTA Bio-C-Sealerの基礎と臨床 プレミックスタイプMTAセメントの理化学的・生体適合性の検証. 日本歯科評論 2022;82(10):97–102.
3. 城 潤一郎, 村田 勇樹^{*6}, 田畠 泰彦^{*6}. モレキュラービーコンを用いた細胞機能イメージング技術の開発と3次元細胞集合体への応用. バイオマテリアル-生体材料- 2022;40(4):300–305.
4. 小正 聰, 本津 茂樹^{*4}, 橋本 典也, 前川 賢治. パルスレーザーデポジション法によるアパタイト薄膜被覆ナノジルコニアインプラント材料の創製. アレルギーの臨床 2022;42(14):1099–1103.

著書

1. 今井 弘一, 橋本 典也, 本田 義知. 臨床歯科医学に必要な情報科学 第5版. 大阪:はんわ企画 2022:1–66.

*尾池工業株式会社

*2大阪市立工業研究所

*3大阪大学

*4近畿大学

*5名古屋大学

*6京都大学

*7東北大学