

2010 —NAKANO Takayoshi

Scientific Papers/Commentary Articles

1. T. Nakano, T. Ishimoto, J.-W. Lee, S. Miyabe, N. Ikeo and H. Fukuda, Evaluation and control of crystallographic alignment of biological apatite crystallites in bones, *Materials Science Forum*, Vols.654-656, pp.2212-2215, 2010
2. T. Ishimoto and T. Nakano, Evaluation of mechanical properties of regenerated bone by nanoindentation technique, *Materials Science Forum*, Vols.654-656, pp.2220-2224, 2010
3. W. Fujitani and T. Nakano, Change in biological apatite orientation in beagle mandible, *Materials Science Forum*, Vols.654-656, pp.2216-2219, 2010
4. Y. Noyama, T. Ishimoto, K. Kuramoto, T. Sakai, H. Yoshikawa and T. Nakano, Quantity and Quality of Regenerated Bone in Grooves Aligned at Different Angles from the Implant Surface, *Materials Science Forum*, Vols.654-656, pp.2241-2244, 2010
5. J.-W. Lee and T. Nakano, Changes in bone quality and quantity in recombinant human macrophage colony-stimulating factor-treated osteopetrotic (op/op) mice, *Materials Science Forum*, Vols.654-656, pp.2249-2252, 2010
6. S. Nakamura, T. Matsumoto, J. Sasaki, H. Egusa, K.-Y. Lee, T. Nakano, T. Sohmura and A. Nakahira, Effect of Calcium Ion Concentrations on Osteogenic Differentiation and Hematopoietic Stem Cell Niche-related Protein Expressions in Osteoblasts, *Tissue Engineering*, 16 [8], pp.2467-2473, 2010
7. W. Fujitani, Y. Hamada, N. Kawaguchi, S. Mori, K. Daito, A. Uchinaka, T. Matsumoto, Y. Kojima, M. Daito, T. Nakano and N. Matsuura, Synthesis of Hydroxyapatite Containing Manganese and Its Evaluation of Biocompatibility, *Nano Bio Medicine*, 2 [1], pp.37-46, 2010
8. W. Kiba, S. Imazato, Y. Takahashi, S. Yoshioka, S. Ebisu and T. Nakano, Efficacy of polyphasic calcium phosphates as a direct pulp capping material, *Journal of Dentistry*, 38, pp.828-837, 2010
9. O. Zhu, L.T. Zhang, J.X. Yu, A.D. Shan, J.S. Wu and T. Nakano, Formation and development of C40/C11b lamellar structure in NbSi₂/MoSi₂ crystals, *Intermetallics*, 18 [12], pp.2328-2332, 2010
10. M. Tane, S. Akita, T. Nakano, K. Hagihara, Y. Umakoshi, M. Niinomi, H. Mori and H. Nakajima, Low Young's modulus of Ti-Nb-Ta-Zr alloys caused by softening in shear moduli c' and c_{44} near lower limit of body-centered cubic phase stability, *Acta Materialia*, 58, pp.6790-6798, 2010
11. M. Ito, N. Hasegawa and T. Nakano, Reduction in densification temperature by TiB₂ addition during sintering of oxides, *Journal of Physics: Conference Series*, 232, 12006, 2010
12. O. Zhu, L. Zhang, J. Yu, A. Shan, J. Wu, K. Hagihara and T. Nakano, Effects of Cr-addition and lamellar microstructure on the oxidation behavior of single crystal (Mo_{0.85}Nb_{0.15})Si₂, *Journal*

- of Alloys of compounds, 509, pp.1511-1516. 2011
13. T. Nakano, W. Fujitani, T. Ishimoto, J.-W. Lee, N. Ikeo, H. Fukuda and K. Kuramoto, Formation of new bone with preferentially oriented biological apatite crystals using a novel cylindrical implant containing anisotropic open pores fabricated by the electron beam melting (EBM) method, *ISIJ International*, 51 [2] , pp.262-268. 2011
 14. T. Matsumoto, A. Mizuno, M. Kashiwagi, S. Yoshida, J. Sasaki and T. Nakano, Cell-based fabrication of organic/inorganic composite gel material, *Materials*, DOI: 10.3390/ma4010327, 2011
 15. K. Hagihara and T. Nakano, Fracture behavior and toughness of NbSi₂-based single-crystals and MoSi₂(C11b)/NbSi₂(C40) duplex crystals with a single set of lamellae, *Acta Materialia*, 59, pp.4168-4176. 2011

Awards

1. T. Nakano, APPRECIATION / The 4th International Symposium for Interface Oral Health Science in SENDAI, 2011/3/8