業績目録（平成14年度）

シグナル伝達講座　細胞薬理学分野

【原著】

1）Oguro, A., Kawase, T., Orikasa, M.：NaF induces early differentiation of murine bone marrow cells along the granulocytic pathway, but not the monocytic or pre-osteoblastic pathway, in vitro. *In Vitro Cell. Dev. Biol.-Animal.* 39：243-248, 2003.

2）Kawase, T., Okuda, K., Burns, D.M.：Immature human osteoblastic MG63 cells predominantly express a subtype 1-like calcitonin gene-related peptide receptor that inactivates extracellular signal response kinase by a cAMP-dependent mechanism. *Eur. J. Pharmacol.* 470：125-137, 2003.

3）Kawase, T., Okuda, K., Wolff, L.F., Yoshie, H.：Platelet-rich plasma-derived fibrin clot formation stimulates collagen synthesis in periodontal ligament and osteoblastic cells in vitro. *J. Periodontol.* 74：858-864, 2003.

4）Okuda, K., Kawase, T., Momose, M., Murata, M,. Saito, Y., Suzuki, H., Wolff, L.F., Yoshie, H.：Platelet-rich plasma contains high levels of platelet-derived growth factor and transforming growth factor-β and modulates the proliferation of periodontally related cells in vitro. *J. Periodontol.* 74：849-857, 2003.

5）Kawase, T., Okuda, K., Yoshie, H., Burns, D.M.：Anti-TGF-β antibody blocks enamel matrix derivative-induced up-regulation of $p21^{WAF1/cip1}$ and prevents its inhibition of human oral epithelial cell proliferation. *J. Periodont. Res.* 37：255-262, 2002.

【学会発表】

1）Kawase, T., Stehno-Brittel, L., Burns, D.M.：Calcitonin gene-related peptide stimulates cAMP production, increases intracellular calcium ion, and hyperpolarizes Em in human MG63 cells. 24th Ann. Meeting, Am. Soc. Bone Miner. Res.（San Antonio, TX, USA; 2002. 9. 20-24.）

2）Okuda, K., Kawase, T., Momose, M., Murata, M., Saito, Y., Suzuki, H., Yoshie, H.：Platelet-rich Plasma （PRP)：The levels of PDGF and TGF-β in PRP and the biological action of PRP in vitro. 88th Ann. Meeting, Am. Acad. of Periodontol.（New Orleans, Louisiana, USA; 2002. 9. 25-28.）

3）川瀬知之：未分化骨芽細胞様細胞に発現するCGRP受容体サブタイプの解析. 第53回日本薬理学会北部会（秋田大，秋田，2002. 9. 19-20.）

4）川瀬知之，奥田一博，吉江弘正：Platelet-Rich Plasma（PRP)はfibrin clotの形成を介して培養歯根膜細胞のコラーゲン産生を促進する．第45回日本歯周病学会秋季学術大会(広島大,広島，2002.10.24-26.）

5）Okuda, K., Kawase, T., Momose, M., Murata, M., Saito, Y., Suzuki, H., Wolff, L.F., Yoshie, H.：Platelet-Rich Plasma（PRP）activates osteoblastic and periodontal ligament cells by growth factor- and fibrinogen-dependent mechanisms.（5th Int. Tissue Engineering, Kobe; 2002. 12. 8-10）