| | | | |
|---|---|---|---|
| • 系統編號 | RN9408-0428 | | |
| • 計畫中文名稱 | 骨母細胞受靜磁場刺激後進行增生與分化現象之機轉研究 | | |
| • 計畫英文名稱 | The Effects of Static Magnetic Field on the Early Differentiation Stage of MG63 Osteoblast-Like Cells | | |
| • 主管機關 | 行政院國家科學委員會 | • 計畫編號 | NSC92-2320-B038-001 |
| • 執行機構 | 臺北醫學大學醫事技術學系 | | |
| • 本期期間 | 9208 ~ 9307 | | |
| • 報告頁數 | 11 頁 | • 使用語言 | 英文 |
| • 研究人員 | 黃豪銘; 李勝揚 Huang, Haw-Ming; Lee, Sheng-Yang | | |
| • 中文關鍵字 | 骨母細胞; 磁場; 細胞增生; 細胞分化 | | |
| • 英文關鍵字 | Osteoblast; Magnetic field; Cell proliferation; Cell differentiation | | |
| • 中文摘要 | 查無中文摘要 | | |
| • 英文摘要 | MG63 osteoblast-like cells were exposed to static magnetic field (SMF). The effects of SMF on factors of osteoblastic differentiation at early stages were assessed by observed the change in cell number, productive levels of local regulatory factors and morphologic images. Our results showed that SMF exposure reduce the proliferative rate of MG63 cells with a cell density dependent manner. However, cell exposed to SMF tend to increase the level of various regulatory factors released in conditioned media when compared to the untreated cells. These findings provide an evidence for the hypothesis that SMF affect osteoblastic maturation at early stage. | | |