摘要格式說明：

1. 摘要內容英文。
2. 摘要題目中英文，需以粗體字表示且其英文第一個字母需為大寫 14 號字。
3. 「論文摘要」請以電腦「Word」軟體打字（以標楷體或 Times New Roman 12 號字為宜），行與行間為 single space，內容以一頁為限。
4. 請提供 3~6 個關鍵詞。
5. 作者以中英文表示。
   主報告者在其姓之後附加「＃」，責任作者在其姓之後附加「＊」號。
6. 檔案名稱為<學校-系名-投稿人姓名>。
7. 一律電子投稿，限用 PDF 檔案格式上傳。
8. 投稿若獲接受，均以原稿刊登，請務必自行確認內容之正確性，恕不再接受修改。

摘要範例

Thrombospondin-2 promotes metastasis by down-regulation of miR-376c through the MAPK signaling pathway in human prostate cancer cells

Thrombospondin-1 可通過 MAPK 路徑下調 miR-376c 促使人類前列腺癌細胞轉移

Liiii-Www, Lin[1,#] , Chhh-Hss, Tang[2], Yuuu-Lss Huang[1,*]

林 OO[1,#]，湯 OO[2]，黃 OO[1,*]

[1]Department of Biotechnology, College of Medical and Health Science, Asia University, Taichung, Taiwan

[2]Department of Pharmacology, School of Medicine, China Medical University, Taichung, Taiwan

Thrombospondin-2 (TSP-2) is a secreted matricellular glycoprotein that is found to mediate cell-to-extracellular matix attachment and participates in many physiological and pathological processes. The expression prolife of TSP-2 on tumors is controversial, it upregulation in some cancers, whereas, downregulated in others, suggesting that the functional role TSP-2 on tumors are still uncertain. Based on the gene expression omnibus database and immunohistochemistry, we found that TSP-2 is increased with the progression of prostate cancer (PCa), especially in metastatic PCa and is correlated with matrix metalloproteinase-2 (MMP-2) expression. Additionally, through binding to CD36 and integrin αvβ3, TSP-2 increased cell migration and MMP-2 expression. Inhibition of p38, ERK and JNK, the TSP-2-induced cell migration and MMP-2 expression were abolished, indicating that the TSP-2's effect on PCa is MAPK-dependent. Moreover, the microRNA-376c (miR-376c) was significantly decreased by TSP-2 treatment. Furthermore, the TSP-2-induced MMP-2 expression and the subsequent cell motility were suppressed upon miR-376c mimic stimulation. On the other hand, the animal studies revealed that the bone metastasis was abolished when TSP-2 was stably knockdown in PCa cells. Taken together, our results indicate that TSP-2 enhances the migration of PCa cells by increasing MMP-2 expression through down-regulation of miR-376c expression. Therefore, TSP-2 may represent a promising new target for treating PCa.

Keywords: Thrombospondin-2, metastasis, prostate cancer, microRNA