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The anticancer effect of a specific myokine, Vimentin

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Myokines are known to suppress some kinds of tumor. This fact makes it possible to explain the correlation between physical activities and cancer. The researcher suggests that Vimentin, an intermediate filament, is a novel myokine and has an anticancer effect on pancreatic cancer. Vimentin was shown to be secreted from muscle cells by muscle contraction. Furthermore, Vimentin treatment on L6 cell increased phosphorylation of AMPK and ACC. These results imply that Vimentin is associated with signaling pathways regulating various metabolisms. MTT assay results demonstrated that Vimentin controls the viability of pancreatic cancer cell, MIA-Pa-Ca-2. The study provides considerable insight into role of Vimentin as a myokine. Muscle contraction leads to secretion and Vimentin is involved in metabolism related to cancer. The evidence from this study also suggests that Vimentin could be used as a drug for cancer treatment. This study is the first step of developing a useful drug for cancer.

Biography

Jaein Ha is an Undergraduate student at Korea University College of Medicine. She has studied Organic Chemistry and is interested in the fields such as Bioorganic Chemistry and Pharmacology. Now, she is doing a research under her academic advisor, Kim, Hyeon Soo (Anatomy Department, Korea University College of Medicine). Her research interest is myokine, which is a molecule secreted from muscle cells. She tries to identify specific myokine which are associated with cell metabolism.

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