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Patent Granted on “Chondrocyte Culture”
with Self-assembling Peptide Technology

3-D Matrix, Ltd. (3DM) announces that it received notice of the patent granted in Japan concerning application of self-assembling peptide technology exclusively licensed by Massachusetts Institute of Technology (MIT) to chondrocyte culture. The patent has been already granted in the US and Europe.

[Title of invention] Peptide scaffold encapsulation of tissue cells and uses thereof
[Patent number] No.507629
[Patent holder] Massachusetts Institute of Technology

This patent is concerning the method and application of culturing cells on self-assembling peptide scaffold, and shows the effectiveness of culturing chondrocytes on three-dimensional scaffold with self-assembling peptide. The related research for clinical application has been promoted and the results and articles are presented by Dr. Grodzinsky, MIT (applicant of this patent) and Professor Tsuyoshi Takato, Department of Tissue Engineering, The University of Tokyo Hospital (NEDO project of Prof. Takato is jointly participated by 3DM).

In the field of chondrocyte culture, various researches have been conducted because culturing the functional chondrocytes is difficult due to the dedifferentiation and loss of cell function if the cells are subcultured on two-dimensional, planar surface. The three-dimensional culture method shown in this patent becomes one of the culture methods to maintain chondrocyte function.

3DM continues to promote research and development in regenerative medicine field using this patent. Though our research is at basic level currently, we are going to develop effective medical device for regeneration of bone, skin, and organs, and expand our corporate value.

This patent granted does not influence the earning forecast of 3DM at this moment.