Mindy Min-Sun Oh et.al., J Cell Sci Ther 2018, Volume 9
DOI: 10.4172/2157-7013-C2-044

Newly elicited pluripotent stem cell

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nEPS (Newly Elicited Pluripotent Stem Cell by Natural Compound) is a pluripotent stem cell to induce pluripotency from separating human mesenchymal stem cell (hMSC). MSCs are cultured and then treated with small molecular compound extracted from natural products (plant). In that case, MSCs can form many colonies. This stem cell colony have expression of protein and DNA gene, only found in pluripotent stem cell, and it can be differentiated into all cells that constitute human body including ectodermal, endodermal and mesodermal cells. Adult stem cell can only be differentiated into cells of a specific tissue, but pluripotent stem cell has a core advantage as a cell therapy product that can be differentiated into cells of all human bodily tissues. nEPS uses stem cell separated from adult tissues like umbilical cord and fat tissue, shows significantly short time for production with production efficiency over 90%, and has no tumor occurrence caused by mutation of gene sequence from gene manipulation. In addition, STC-nEPS accompanies an advantage that it can be used on anyone without immunological rejection. The application of pluripotent stem cells that has received the most attention in recent years is as a novel source of cells for cell replacement therapy for the treatment of a wide range of incurable diseases. As shown above, DNA analysis has confirmed that nEPS is pluripotent stem cell without tumor occurrence. Also, we successfully differentiated stem cell into human pancreatic beta cell, neurocyte, hepatocyte, chondrocyte, osteoblast and kidney cell.

Biography

Mindy Min-Sun Oh is currently the CEO of bBHC and STC Stem Cell Treatment & Research Institute. She had finished her AAS degree from Fashion Institute of Technology and her Bachelor's degree in Business Management from Sang Myung University. She also a copyright holder of Patent related to newly elicited pluripotent stem cells.

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