

Large-Scale Stem Cell Expansion feasible

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Singapore: A collaboration between Eppendorf and Florida State University has successfully shown the feasibility of large-scale expansion of human mesenchymal stem cells (MSC), using the company's proprietary Fibracel packed-bed technology.

Dr Ma Sha, director of Technical Applications at Eppendorf, provided equipment and funding for reagents to Dr Teng Ma to support the Florida State team's work in the field of stem cell expansion.

The team successfully conducted MSC expansion inside a packed-bed 3D matrix using a CelliGen 310 bioreactor at ~2 L scale. The results demonstrate the feasibility of large-scale stem cell expansion using the company's patented Fibracel packed-bed technology which provides uniform mass transfer of nutrients and oxygen to the adhered cells.

The finding will be submitted for publication in a peer reviewed scientific journal.