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## ACCEPTED MANUSCRIPT

Qualitative and quantitative demonstration of bead-to-bead transfer with bone marrow-derived human mesenchymal stem cells on microcarriers: utilising the phenomenon to improve culture performance

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Highlights

- Qualitative & quantitative demonstration of bead-to-bead transfer for hMSC microcarrier culture
- The phenomenon is used to significantly improve yield and culture performance
- Reproducible results across 3 different hBM-MSC donors in FBS, HPL and serum-free

## Abstract

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