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Characterisation of human mesenchymal stem cells from multiple donors and the implications for large scale bioprocess development

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Keywords

Bioprocess design; Characterisation; Biomedical; Scale-up; Tissue Cell Culture; human mesenchymal stem cells

Abbreviations

<xps:span class=deft>BM</xps:span> <xps:span class=defd>hMSC – Bone marrow derived human mesenchymal stem cells</xps:span>

<xps:span class=deft>MNC </xps:span> <xps:span class=defd> Mononuclear cells</xps:span>

<xps:span class=deft>FBS </xps:span> <xps:span class=defd> Fetal bovine serum</xps:span>

<xps:span class=deft>DMSO </xps:span> <xps:span class=defd> Dimethylsulphoxide </xps:span>

<xps:span class=deft>CFU</xps:span> <xps:span class=defd>f – Colony forming unit fibroblast</xps:span>

<xps:span class=deft>QC </xps:span> <xps:span class=defd> Quality control</xps:span>

<xps:span class=deft>QA </xps:span> <xps:span class=defd> Quality assurance</xps:span>

<xps:span class=deft>STR </xps:span> <xps:span class=defd> Short tandem repeat</xps:span>

<xps:span class=deft>CQA – Critical</xps:span> <xps:span class=defd>to-quality attributes</xps:span>

<xps:span class=deft>IL</xps:span> <xps:span class=defd>6 – Interleukin 6</xps:span>