

SPHERICALPLATE 5D®



► Stem Cell Research



« This plate is a game changer. Everyone who needs a lot of clusters needs this plate! »

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The Benefits

- uniformity - standardization of spheroid formation
 - no surface attachment due to pre-applied coating
 - allow flexibility when designing the experimental setup
 - production of high density spheroids to increase data points for analysis
 - compatibility with standard, existing imaging, and automatization technologies/ equipment/systems > especially centralized position of spheroid within microwell
 - Long and short time culture possible to generate sufficient spheroids
 - co-culture of different cell-types possible
 - collection of secretome from the spheroids possible
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Example of stem cells successfully cultivated in SP5D

- Human bone marrow-derived mesenchymal stromal cells
 - Human adipose-derived mesenchymal stromal cells
 - Human amniotic epithelial cells
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Literature:

1. Eishi Aizawa, Anton Wutz, *et al.*, Stem Cell Reports Journal, 2021. [🌐 https://doi.org/10.1016/j.stemcr.2021.11.006](https://doi.org/10.1016/j.stemcr.2021.11.006)
 2. Siddharth Shanbhag, Salwa Suliman, *et al.*, Frontiers Bioengineering Biotechnology Journal, 2021. [🌐 https://doi.org/10.3389/fbioe.2021.783468](https://doi.org/10.3389/fbioe.2021.783468)
 3. Ingrid Zahn, Gundula Schulze-Tanzil, *et al.*, Internation Journal of Molecular Sciences, 2021. [🌐 https://doi.org/10.3390/ijms222011011](https://doi.org/10.3390/ijms222011011)
 4. Dominik Egger, Cornelia Kasper, *et al.*, Engineering in Life Sciences Journal, 2021. [🌐 https://doi.org/10.1002/elsc.202100097](https://doi.org/10.1002/elsc.202100097)
- > Further information: [🌐 www.sp5d.com](http://www.sp5d.com)
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