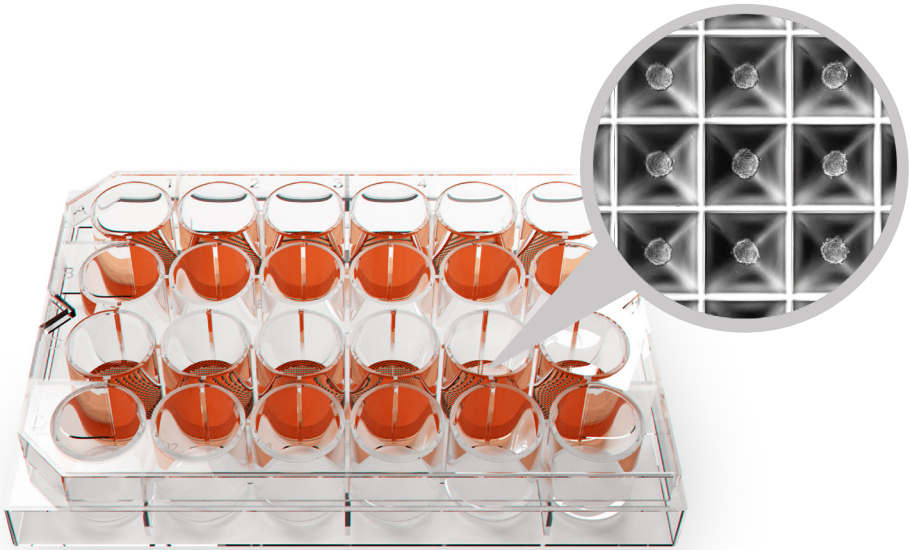
SPHERICALPLATE 5D®

Ecosystem for Regenerative Medicine



Stem Cell Research

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

Prof. Dr. Dr. Maximilian Y. Emmert
Institute for Regenerative Medicine, IREM
University of Zurich

The Benefits

- uniformity - standardization of spheroid formation
- no surface attachment due to pre-applied coating
- scalability- production of high quantities of spheroids to do high throughput analysis/screening (e.g. Omics > Proteomics/Genomics/Metabolomics)
- compatibility with standard, existing imaging, and automatization technologies/ equipment/systems > especially centralized position of spheroid within microwell
- usability of /compatibility for various stem cell-lines (see examples below)
- co-culture of different cell-types possible
- collection of secretome from the spheroids possible

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

Literature:

1. Eishi Aizawa, Anton Wutz, *et al.*, Stem Cell Reports Journal, 2021. **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**
3. Ingrid Zahn, Gundula Schulze-Tanzil, *et al.*, Internation Journal of Molecular Sciences, 2021. **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**
5. further information: **www.sp5d.com**

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