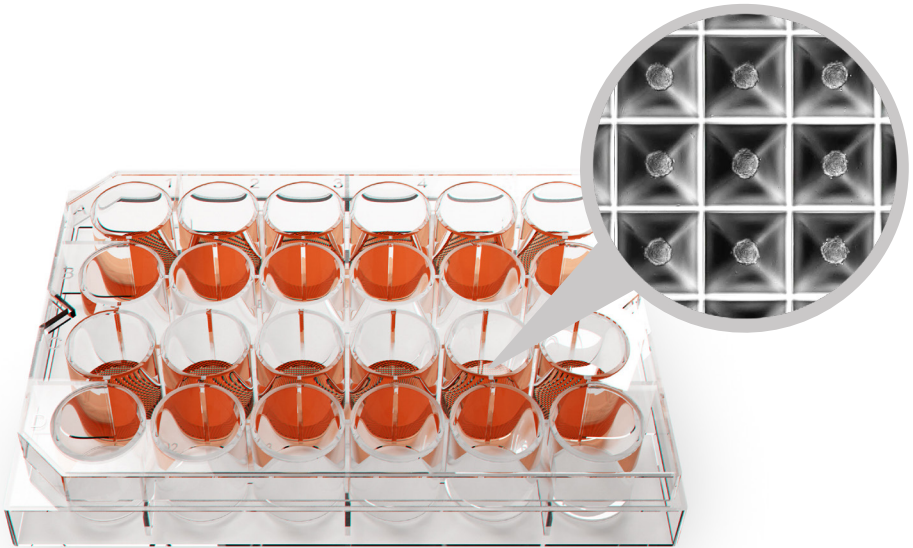


SPHERICALPLATE 5D®

Ecosystem for Regenerative Medicine



► Islet Research



« With the help of the Sphericalplate 5D from Kugelmeiers, we were able to produce standardized and scalable Pseudo-Islets with uniform morphology from different species. »

U. Schubert- AG Prof. Dr. B. Ludwig

Department of Medicine III, Faculty of Medicine,
University Hospital Dresden



The Benefits

- uniformity - standardization of islet spheroid size
 - scalability - production of high quantities of islet spheroids (9'000 spheroids/ plate)
 - maintain viability of islet spheroids
 - preserve functionality of islet spheroids
 - compatibility with standard, existing imaging, and automatization technologies/ equipment/systems > especially centralized position of spheroid within microwell
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Example of islet cells successfully cultivated in SP5D

- Human islet cells
 - Rat islet cells
 - Mouse islet cells
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Literature:

1. Charles-Henri Wassmer, Ekaterine Berishvili, *et al.*, Cell Transplantation Journal, 2020. <https://doi.org/10.1177/0963689720937292>
2. Undine Schubert, Barbara Ludwig, *et al.*, IPITA Congress Abstract. <https://10.1097/01.tp.0000804456.07899.3f>
3. Stefan Bornstein, Constanze Hantel, *et al.*, bioRxiv, 2022. <https://doi.org/10.1101/2022.01.10.475686>
4. further information: www.sp5d.com