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Cell³iMager neo

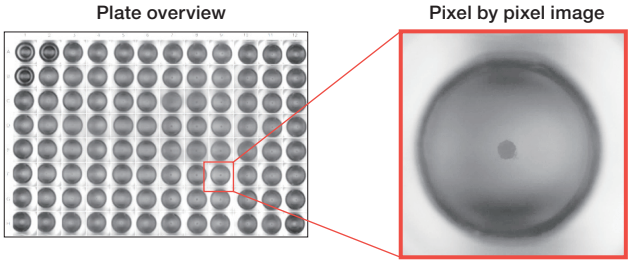
3D Cell Culture by Hanging Drop

KEYWORD 1) Spheroid 2) 3D culture 3) Hanging Drop 4) Label free assay

SUMMARY Spheroids in the droplets being aggregated by the method of hanging drop were quantified by Cell3iMager neo.

Materials and Methods

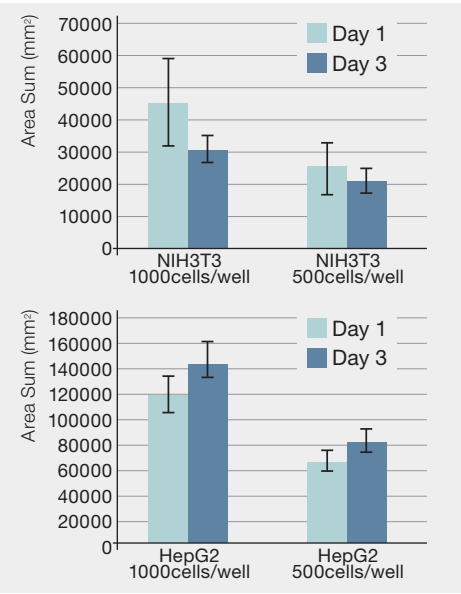
Cell Line: HepG2 cells (RIKEN BRC)
NIH3T3 cells (RIKEN BRC)
Medium: DMEM (Nacalai tesque)
Plate: GravityPLUS™ (InSphero)
Seeding cell density: 500, 1000cells/well
Culture days: 3 days after making drops
Imaging methods: Bright-field, 4800dpi
Bracket Focus (stacked)

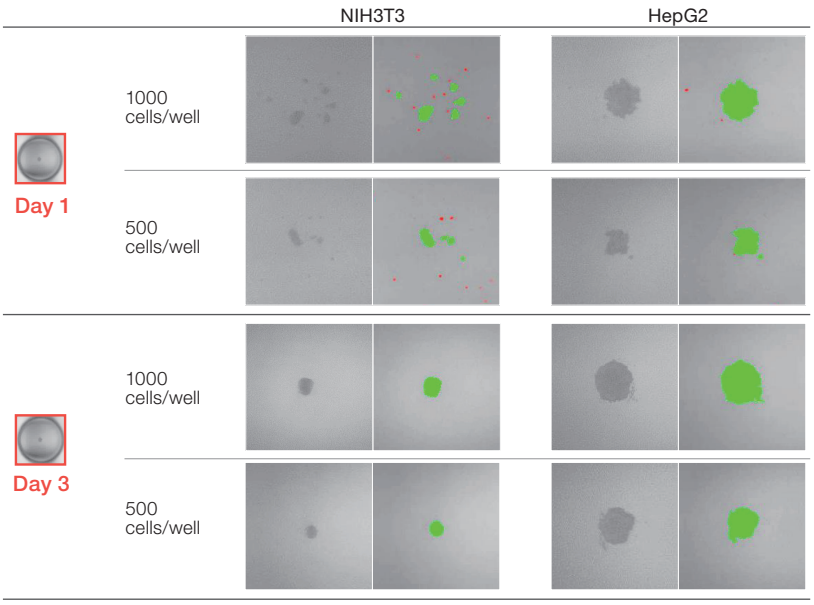


HepG2 spheroid in hanging drop

Results and Conclusions

- Cell3iMager neo could capture the spheroid formation process in hanging drops.
- It was possible to quantify the spheroids to evaluate the time-lapse changing area.





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