SCREEN

Cell3iMager duos

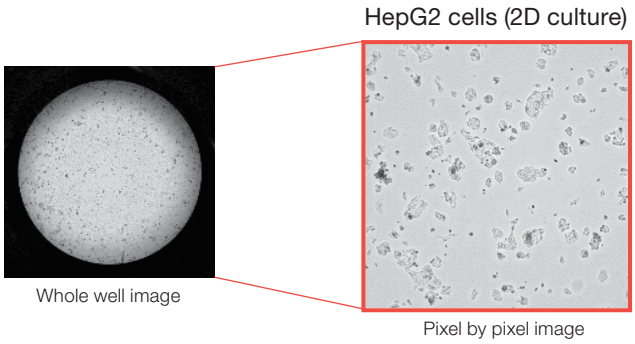
Cell Proliferation

KEYWORD 1) 2D culture 2) 3D culture 3) Proliferation 4) Label-free assay

OBJECTIVE Proliferation ratio of the 2D/3D cultured cells is quantified by Cell3iMager duos.

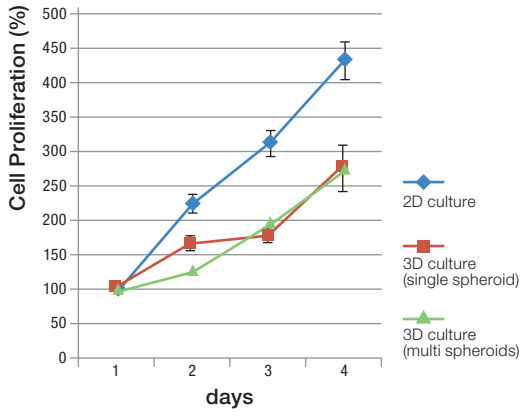
Materials and Methods

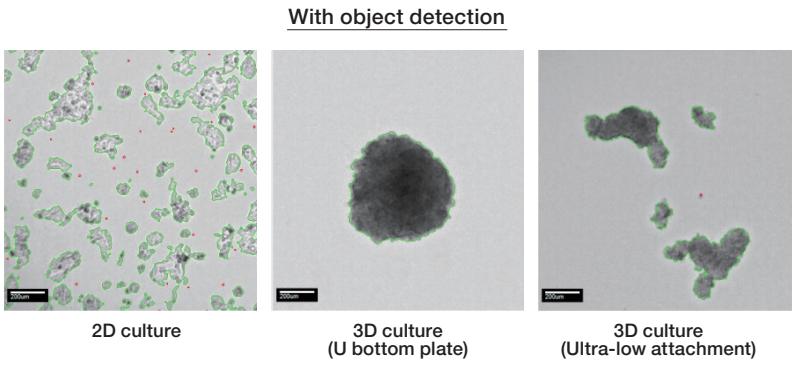
Cell Line : HepG2 cells (RIKEN BRC)
Medium : DMEM (Nacalai tesque)
Plate : 96-well plate flat bottom (Sumitomo Bakelite)
96-well plate U bottom (Sumitomo Bakelite)
96-well plate flat bottom,
ultra-low attachment coated (Corning)
Seeding cell density : 1000 cells / well
Culture days : 4 days
Reagent : Hypoxia probe LOX-1(Organogenix)
Imaging methods : Bright field, Low-magnification lens



Results and Conclusions

- This quantification can be alternative method to MTT assay and ATP assay. (Correlation with ATP assay has been confirmed.)
- It is possible to quantify proliferation ratio of the 2D / 3D cultured cells.
- Incase of 2D cells, proliferation ratio was quantified by Area.
- Incase of 3D cells, proliferation ratio was quantified by Volume.





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