SCREEN

Cell³iMager duos

MITO KOGYO Supplier of industrial products

KUGELMEIERS

Label free analysis of spheroids in microwells (SPHERICALPLATE 5D)

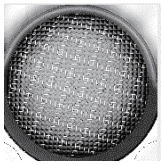
KEYWORD 1) SPHERICALPLATE 5D 2) Microwells 3) Spheroids 4) Label free assay

OBJECTIVE

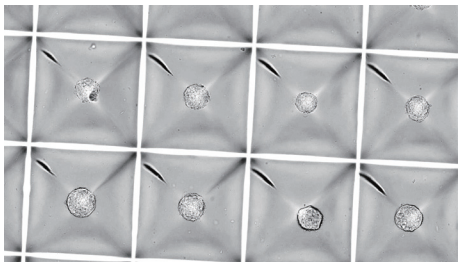
Spheroids cultured in SPHERICAL PLATE 5D (Kugelmeiers AG) were scanned and analyzed by Cell3iMager duos.

Materials and Methods

Cell Lines : MCF-7 (RIKEN BRC)
Media : DMEM (Nacalai tesque)
Plate : SPHERICAL PLATE 5D (Kugelmeiers AG)
Seeding density : 7.5 x 104 cells/well
Culture days : 1 - 4 days
Imaging Method : High magnification lens, removal of diffusion unit
Analysis Method : Deep Learning Plugin(optional)



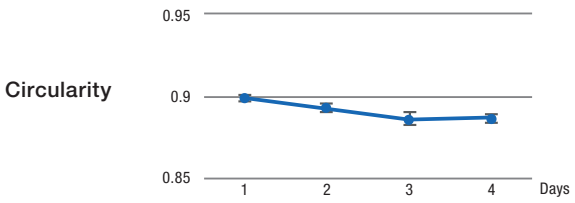
Whole well image

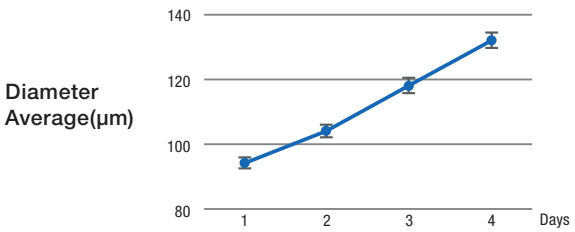


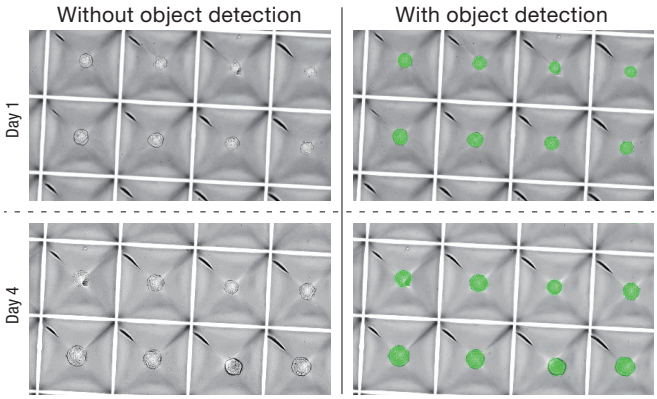
Pixel by pixel image

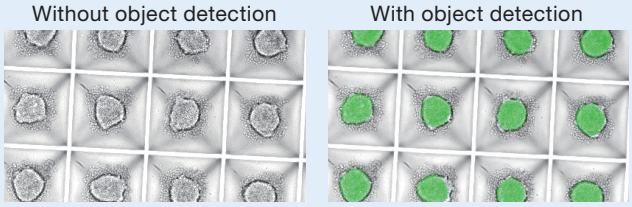
Results and Conclusions

- duos can quantify spheroids in a microwells by a label free manners.
- duos is capable of recognizing the uniform iPSC-derived spheroid without any chemical or biological labeling, even though they are other smaller cell structure around the iPSC spheroid









iPSCs-derived spheroidsv(By courtesy of iPS Portal, Inc)

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