PSON0005 Physical Characterization of Cell Lines: Traction force and Volume

PSON0005 Physical Characterization of Cell Lines: Traction force and Volume In this study, live cells were plated on fluorescent beads and fluorescently labeled with CellTracker Green CMFDA (Invitrogen) and DRAQ5 (Cell Signaling Technology) to label cytoplasm and cell nucleus respectively. A 63x, 1.2 NA water immersion objective on a laser scanning confocal microscope (Leica TCS SP5, Wetzlar, Germany) was used for all measurements. Cell contractility is measured as total maximum force (nN) using the traction force microscopy (TFM). Raw data consists of tif and jpg files, while the derived data is provided in Excel spreadsheets. This assay could not be performed for the cell line NCI-PBCF-CRL1740 because it was was weakly adherent to the substrate.

- Download the dataset at ftp://caftpd.nci.nih.gov/psondcc/PhysicalCharacterization/Traction_force_and_Volume
- The project's entry at Synapse.org: https://www.synapse.org/#!Synapse:syn7248592

Data usage policy

The data contained within the PS-ON DCC is based on several research projects and is intended to be rapidly and constantly updated for the research community to access and use. The NCI requests that any data users:

- Inform the data submitters about the intention to submit a publication that uses PS-ON DCC data.
    - Include the following statement in any publications resulting from the use of PS-ON DCC data: *Data used in this publication were generated by projects sponsored by the NCI Physical Sciences in Oncology Initiative.*