#### **Cell Culture Protocol for U2OS cells**

# U2OS (ATCC number HTB-96): Osteosarcoma;

Bone sarcoma from the tibia of a human female

Growth medium: DMEM (GIBCO # 11960) + 10% FBS + 2mM L-Glutamine + 100 units/ml penicillin + 100 micro-g/ml streptomycin (GIBCO # 15140-122).

## **Protocol for Thawing U2OS Cells:**

- 1. Take out the U2OS stock vial from liquid nitrogen (we freeze at 2x10<sup>6</sup> cells per vial) and thaw it at room temperature.
- 2. Resuspend thawed cells in 10 ml growth media and transfer cells into a 10 sq. cm. tissue culture dish. Cells are grown in a 37°C incubator at 5% CO2.

## **Protocol for Subculturing of U2OS Cells:**

Change medium every 2 to 3 days, and split cultures when they reach 85% confluence (1x10^7 cells/10 sq. cm. dish)

- 1. Aspirate growth media from the tissue culture dish.
- 2. Add 5 mls of Trypsin (0.05%) with EDTA solution (GIBCO # 25300) and allow the cells to incubate in the 37°C incubator until cells detach.
- 3. Add 5 mls of fresh growth media and collect cells in a centrifuge tube.
- 4. Spin at 1500rpm for 5 minutes.
- 5. Aspirate supernatant and add fresh growth media
- Transfer 1-5X10<sup>5</sup> viable cells/ml to a new culture vessel and place in a 37°C incubator at 5% CO2

Note: We typically split cells at a ratio of 1:4 every 4 to 5 days using the above mentioned seeding conditions.

#### Freezing of U2OS Cells:

Cells can be stored as a stock in liquid nitrogen at 2-5x10<sup>6</sup> cells/ml in growth medium containing 5% DMSO.