

## **CEREBROSPINAL FLUID SAMPLE COLLECTION**

### Lumbar puncture

- LP performed at 8am after overnight fasting
- Subject in an upright position in either a massage chair or on the side of the bed
- Collection of ~30 ml CSF (gravity flow) at the L3/L4 or L4/L5 through 22G x 31/2 Sprotte spinal needle (Pajunk cat #001151-30C) into sterile 50 ml conical polypropylene tube (Falcon cat#352098)
- Discard initial milliliter if bloody (rare), collecting only clear fluid
- Put sample immediately on ice

## **SAMPLE PROCESSING**

### CSF

- Spin CSF briefly at low speed (2000 g, 5 min, 4° C) to pellet any cellular debris
- Transfer supernatant (all but final 500 µl) via a sterile 25 ml pipette into a new 50 ml polypropylene tube
- Invert sample gently to mix
- Aliquot (500µl) into sterile 2ml orange screw-cap tubes (Corning cat#430915)
- Affix tubes with labels containing subject ID number, date of LP, and designation as “CSF”
- Store n=6 aliquots in liquid N<sub>2</sub> freezer and remaining aliquots (majority) in -84°C freezer (equipped with CO<sub>2</sub> emergency backup unit)