Preparation of Tissues for Cell Culture

This process can be used for lymph nodes spleens, thymii and various other tissues.

- 1. Remove whole spleen from mouse and place in RPMI in aseptic conditions.
- 2. Macerate the tissue using the plunger end of a 3cc syringe until completely dissociated.
- 3. Pass the tissue/cell suspension through a 70um cell strainer (BD Biosciences, San Diego, CA) to remove excess tissue/particulate.
- 4. Centrifuge at 1000rpm for 10 minutes and resuspend in 1mL of red blood cell lysing buffer (Sigma Aldrich, St. Louis, MO) to lyse red blood cells.
- 5. After 1 minute, add the cell suspension to RPMI and wash a total of 3 times.
- 6. After the third wash step, take a sample of cells $(20\mu L)$ and count using a hemacytometer and equal volume Trypan Blue (Gibco, Carlsbad, CA) as an exclusion dye.
- 7. Resuspend the cells in cRPMI (complete media) supplemented with FBS (10%), Penicillin /Streptomycin (Gibco Cat.# 10378-016, 100U/mL), L-glutamine (Gibco, 292µg/mL), non-essential amino acids (Gibco Cat.# 11140-050), sodium pyruvate (Gibco Cat.# 11360-070, 1mM) and 2-mercaptoethanol (2ME, Gibco, 0.00034%).