PROTOCOL 1.

PROTOCOL 1. ISOLATION of adult stem cells from BONE MARROW (Blood)

MATERIALS:

- 15ml tube with Ficoll (4ml)
- 15ml tube with blood (8 ml 1:1 with 2mM EDTA/PBS)
- 1x 15ml tube
- Pasteur pipette few

PROCEDURE

- 1. Dilute blood 1:1 with PBS contain 2mM EDTA
- 2. Add 4ml of Ficoll into the 15ml tube.
- 3. Transfer, VERY SLOWLY, <u>drop by drop blood</u> on the top of Ficoll. TO DO NOT MIX Ficoll with blood.
- 4. Spin for 30min at 1800g (2840 rpm) break off at 17°C



- 5. After centrifuge VERY CAREFULLY transfer "white level" containing lymphocytes (Bone marrow mononuclear cells) into new 15 ml tube. CAREFULLY TO DO NOT CONTAMINATE with other cells.
- 6. Add PBS up to 5ml.
- 7. Spin 5 min at 1200 rpm.
- 8. Trash supernatant and re-suspend cells in 1ml of MEM.
- 9. COUNT number of vital cells and freeze.