IV. Preparation of ES clones for blastocyst injection

- 1. Once ES clones with appropriate recombined alleles have been identified, and verified by DNA analysis of clones thawed from master plates, the cells can be prepared for injection into blastocysts. A T25 flask is coated with gelatin, and feeder fibroblasts are added to this flask. This can be done on the Monday of the week of injection.
- 2. 2-3 days before injection, one frozen vial of amplified ES cells is thawed and plated into the T25 flask. The media is ES media (with G418). Change the media every day.
- 3. On the day of injection, the media is changed to ES media, without G418 and LIF, 1-2 h before the cells are needed. The cells are then trypsinized, pelleted, and resuspended in 10 ml of DMEM supplemented with 20 mM HEPES, pH 7.3, and 10% FCS. The cells are stored on ice while injections are performed.