

## **SUPEROVULATION**

### Required materials:

50 IU equine chorionic gonadotropin (eCG, formerly termed PMSG)

50 IU human chorionic gonadotropin (hCG)

1x PBS

26-gauge needles

### Before beginning:

Allow female mice to adapt to light/dark cycle in mouse room for at least 2 days.

### Superovulation:

1. Prepare PMSG for injection. To the aliquot of 50 IU eCG in 50  $\mu$ l, add 950  $\mu$ l of PBS.
2. Inject each mouse in the peritoneal cavity with 0.15 cc of the diluted eCG (= 7.5 IU) using 26-gauge needles. Mark the tail of each mouse after injecting it in order to recognize the injected from the uninjected. Inject between 4pm and 6 pm.
3. After 44 to 48 hours, prepare hCG for injection by adding 950  $\mu$ l of PBS to the aliquot containing 50 IU hCG.
4. Inject each mouse in the peritoneal cavity with 0.1 cc of the diluted hCG (= 5IU) using 26-gauge needles. Mark the tail of each mouse after injecting it in order to recognize the injected from the uninjected.
5. Place one female mouse together with one male overnight to be mated. Mating time is assumed to be midnight. Ovulation is assumed to be 12 hr after hCG injection.
6. Early the next morning, check female mice for vaginal plugs.