

Irradiation/Transplantation guidelines.

Today: February 20, 2008

Last updated: February 3, 2008

Please be advised that following these guidelines will ensure that the core will be able to successfully perform your experiments.

- The transplant/irradiation team needs at least 72 hours of written notice of a pending transplant/irradiation. We can not ensure to fill in transplant/irradiation request that are placed on shorter notice, but will try to accommodate if possible. Thus coordinate your timetable in case you want to transplant/irradiate sorted cells (Cell sorter)
- **Mice must be readily available and already transferred into the irradiator area and housed in the proper mouse box with a water bottle at least one hour prior to the first irradiation dose.** The core can not transfer animals into the irradiator area for you. So please plan ahead.
- It is very difficult to transplant into any mouse less than 5 weeks of age for the following reasons:
 - Tail veins and eye reservoirs are small which makes injecting very difficult if not almost impossible
 - Irradiation dose may not be correct
 - Tails may de-glove
 - Stress levels are higher
 - High mortality rate
- For irradiation of cells on a regular basis, a distinct time schedule will allow the core the best accommodate these needs.

On the Irradiator

Due to homeland security concerns, Cincinnati Children's decided to limit the access of individual investigators to the irradiator and placed the responsibility of irradiating cells as well as animals exclusively with this Core.

The Core will work closely together with individual investigators to meet their "irradiation needs". We prefer to irradiate animals and cells preferably twice a day, either from 10:00 to 11:00 or from 2:00 pm to 3:00 pm, although of course we will try to accommodate any schedule that is necessary for a specific experiment.