MOLab Bookkeeping for Animal Experiments

(For IACUC Protocol #71328: Molecular Biology of Human Cancers)

Date	Cage#	Ear Tag#	Anesthetic agent(s)/ dose used	Analgesics used	General conditions	Indicators of pain/distress	Animal weight	Tumor/ Mass volume	Xenogen imaging	Date of Sacrifice	Investigator (You!)
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Highlights from ACUP #71328 (Molecular Biology of Human Cancers)

Anesthetic choices: (1) 1-4% **Isoflurane** gas (continous, inhalation); or (2) **ketamine/xylazine** (80-120mg/kg ketamine and 5-10 mg/kg zylazine) i.p. injection After implantation of tumor cells, mice will be monitored **daily for the first three days**, then **twice/week thereafter**.

Growth of the implanted tumors will be monitored for up to $10\ weeks$

Tumor volume and total weight of each animal will be measured daily first 3 days, and then twice a week thereafter. **Total tumor volume should be <1.5 cm3**The mice will be kept in special microisolator cages, with no more than 5 mice per cage.

Monitor mice for excessive grooming, chewing, licking of the excision site, degradation of the incision site, and overall mouse health (hair loss, lethargy) which would be indicators of **pain or distress**.

If any animal shows signs of pain/distress, it will be euthanized by CO2 overdose/cervical dislocation. These signs will include: 1) animals that do not move when their cage is approached or tapped (i.e. they do not scurry about, rather they sit hunched in a corner), 2) they do not right themselves when laid on their backs, 3) they show stressed breathing, 4) their overall appearance is not optimal (i.e., they are unkept or scruffy-looking), or 5) significant limping or swelling of the intratibially injected leg, which hampers the animal's activity and/or ability to uptake food/water. Any mice that do not show improved health status will be euthanized