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2010

17. Experimental Protocol

- a) In this section describe your experimental protocols, outside of normal husbandry, to be performed on the animals. **This response should provide the committee with a clear understanding of what specifically happens sequentially to each animal or group of animals and over what time period.** It is not necessary to repeat the surgical description that is provided in question 28, but the timing of the surgery within the experiment should be indicated. Be sure to include: all drugs given, including dosage range, routes and frequency of administration; nutritional intervention; social or environmental manipulation; method and amount of biological samples taken; methods of antibody production; use of radioactive materials, blood or other fluid sampling including method and amount, etc. Specify the expected sequence, frequency and duration of these procedures. **If this protocol is to cover an animal colony, use this section to detail breeding procedures/methods.** (Append additional page(s) if necessary)

Challenge with Live SIV

Macaque pairs that have been MHC-defined from other studies will be challenged with live SIV. Challenges will be performed under ketamine anesthesia (15mg/kg i.m.) by the intravenous (i.v.) route or ketamine/medetomidine (5mg and 30ug/kg respectively) IM followed by reversal with 150ug/kg atipamezole IM or IV or a more refined anesthetic regimen at the discretion of the veterinarian present. Intravenous (i.v.) challenges will be performed by delivering 100 TCID₅₀ (Tissue Culture 50% Infectious Dose) of the highly pathogenic, cloned virus SIVmac239 in 1 mL of phosphate buffered saline into the animal. This dose will be injected slowly and after infection the animal will be returned to its cage. One TCID₅₀ is the dose required to infect 50% of cells in tissue

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Biopsy schedule:

Vagina
2(max)

Sigmoid Colon
10(max)

Frequency
4x(max)

Interval between biopsies
1 month or more

Summary of Animal Treatments:

Group	MHC	# animals	SIV Infection	LN biopsy	Mucosal biopsy
1	Identical Pairs	14	+	+	+
2	Non-identical Pairs	6	+	+	+

- b) Do any animals undergo any type of restraint beyond normal housing methods? **YES** **NO**
If YES, indicate method, length of restraint, and justification for such restraint. If the design of the study requires continuous restraint for longer than 12 hours without the opportunity for exercise, be sure the justification addresses need for such an extended period and include the maximum length of time the animals will be restrained. Include any plans for providing additional enrichment and any steps taken to avoid physical discomfort during the restraint. (See Campus Policy on Non-human Primate Chairing if applicable - available on the web at: www.rarc.wisc.edu)
- c) Are any animals subjected to fluid or food restriction? **YES** If YES, discuss level of restriction, expected consequences, and justification for such restrictions

Animals will only be food restricted (fasted) the night before a procedure, but not for any other reason.

- d) Will any animals require nonstandard husbandry exemption (e.g. exercise exemption, extended cage cleaning periods, etc.) **NO** If YES, indicated nonstandard husbandry required and justification for this practice.