IACUC Policies and Procedures

Title: Testing of Tumors, Tissues and Cell Lines to be Used in Rodents

Purpose: Tumors, tissues, and cell lines serve as a common source of contamination of rodent colonies. Biological materials, including cell lines, tumors, tissues, stem cells and serum components of cell culture media, can harbor murine pathogens capable of introducing disease into rodent colonies. All rodent colonies housed in the ARC are screened for infectious diseases and are generally free of viruses and other microbial agents capable of interfering with research. The health of the colonies and the integrity of research can be endangered by inadvertent introduction of untested biologicals carrying pathogens. All biological materials of unknown status are to be tested prior to inoculation into rodents. The IMPACT test (Infectious Microbe PCR Amplification Test) is a PCR based test offered by UM-RADIL that tests for murine pathogen contamination of biological specimens.

Do not introduce biological materials into rodents in any ARC animal facility without prior consultation with the ARC veterinary staff and IACUC approval.

Policy: All tumors, tissues, or cell lines must be tested prior to their use at Dartmouth. The level of testing is as follows:

- All tumors/tissues/cell lines must be tested negative for the agents included in the MU RADIL IMPACT II PCR Panel prior to their use in animals.

- Tumors/tissues/cell lines that have been passaged in rodents since they were last tested must be tested using at least the MU RADIL IMPACT IV PCR Panel prior to their use in animals.

- Tumors/ tissues continually passaged in rodents must be tested, using the limited PCR panel, on a triennial basis.

- Tumor/ tissue stocks that have been tested, cleared, and stored cryopreserved do not need to be retested.

All new ASRF submissions which include the use of tumor/ tissue lines must include documentation of full panel testing equivalent to Impact II or IV as indicated above.

Testing of tumors/ tissues/cell lines is arranged through the ARC Laboratory Animal Technologist. Each individual tumor/tissue/cell line will receive a unique identification which must be used by the PI when referencing this tumor/tissue/cell line. Labs that have previously done the required testing should also arrange unique identification through the ARC Laboratory Animal Technologist to assure that each has its own identify to avoid confusion when tissues with similar names exist.

RADIL Impact Profiles

Impact Profile II	**Impact IV**
Mycoplasma spp	*Mycoplasma spp*
Sendai virus	Sendai virus
Mouse hepatitis virus	Mouse hepatitis virus
Pneumonia virus of mice	Pneumonia virus of mice
Minute virus of mice	Minute virus of mice
Mouse Parvovirus (MPV1,MPV2,MPV3)	Mouse Parvovirus (MPV1,MPV2,MPV3)
Theilers murine encephalomyelitis	Theilers murine encephalomyelitis
Murine norovirus	
Reovirus-3	
Mouse rotavirus	
Ectromelia virus	
Lymphocitic choriomeningitis virus	
Polyoma virus	
Lactate dehydrogenase elevating virus	
Mouse adenovirus (MAD1,MAD2)	
Mouse Cytomegalovirus	