

The following documents were approved by the Stanford University ethical board.

Co-Protocol Director

Name :	FNU Mujib Ullah	Phone :	5127468464
Dept :	Rad/Pediatric Radiology	Mail Code :	
E-mail :	ullah@stanford.edu	Fax :	
Degree :	MD, PhD	Title :	Basic Life Research Scientist

- Y **Completed VSC training course?**
- N **Attended Working Safely with Non-Human Primates (VSC-0002)?**
- N **Attended Rodent Aseptic Surgery Techniques Workshop (VSC-0022 or VSC-0022A/B)?**
- Y **Attended Rodent Aseptic Surgery and the Evaluation of Pain and Distress (VSC-0027 or VSC-0022A)?**

A) Describe experience/training you have had or will have with this specific animal model(s). B) Specify which procedure(s) you will be performing and in what capacity. C) Who will provide training and confirm that you have completed it?

A) Mujib Ullah has 8 years of experience in rodent handling. He will be working with mice to perform dissections, intravenous and intra-arterial injection of drugs, stem cells, and exosomes.

N **Working with animal models?**
Completed Animal Care and Use Training Program (VSC-0001)?
Attended Working Safely with Non-Human Primates (VSC-0002)?
Attended Rodent Aseptic Surgery Techniques Workshop
(VSC-0022 or VSC-0022A/B)?
Attended Rodent Aseptic Surgery and the Evaluation of Pain and
Distress (VSC-0027 or VSC-0022A)?

A) Describe experience/training you have had or will have with this specific animal model(s). B)
Specify which procedure(s) you will be performing and in what capacity. C) Who will provide
training and confirm that you have completed it?

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Co-Protocol Director

Name :	Mujib Ullah	Phone :	5127468464
Dept :	Radiology	Mail Code :	5488
E-mail :	ullah@stanford.edu	Fax :	
Degree :	PhD	Title :	

Y **Completed VSC training course?**
N **Attended Working Safely with Non-Human Primates (VSC-0002)?**
Y **Attended Rodent Aseptic Surgery Techniques Workshop**
 (VSC-0022 or VSC-0022A/B)?
N **Attended Rodent Aseptic Surgery and the Evaluation of Pain and**

participate in any surgical procedures until both VSC-0022A and B have been completed.

*** Species ***

Common Name : Mouse, Domestic
Housing Location : 3155 Porter Drive
Daily Census : 20

Scientific Name : Mus musculus
Room Number :

Number of animals per year : 118

Common Name : Rat, Domestic
Housing Location : 3155 Porter Drive
Daily Census : 5

Scientific Name : Rattus norvegicus
Room Number : 1114

Number of animals per year : 94

*** Are You Using ***

1. N **Live animals for teaching?**
VSC contacted regarding procurement and disposal of animals?
2. N **Dead animals for teaching?**
VSC contacted regarding procurement and disposal of animals?
3. N **Collaboration with another Institution?**

(Collaboration defined as: SU funds used to support an off-campus animal study or scientific direction of animal study provided by SU, or custom antibody production).

Institution(s)

PLEASE NOTE: A-PLAC must assure that all animal research involving Stanford resources is reviewed. For collaborative studies performed elsewhere, you may be asked to provide an approval and/or proof of a PHS Assurance from the IACUC of the host institution.

7. N **Animals in human patient/subject areas?**

8. Y **Chemical Hazards?**

Describe the use of antineoplastic drugs or other chemical agents known or suspected to be carcinogenic, mutagenic, teratogenic, or to pose reproductive harm.

Refer to [EH&S guidelines](#) website prior to performing studies.

Hazardous Chemical Name	Route of Administration	Dosage (in mg/kg if possible)
Cisplatin	Intraperitoneal (IP)	25 mg/kg
Perfluorocarbons (19F)	Intravenous (IV)	1-5 g/kg

9. N **Human Stem Cells?**

If yes, please see important information at:

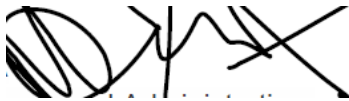
<http://labanimals.stanford.edu/resources/faq/chemicalfaq.html#m10>

9a. N/A **If you are using human pluripotent stem cells or cells differentiated from human pluripotent stem cells and are placing these into animals, do you agree to prevent breeding of these animals, and to terminate any unplanned pregnancies?**
(You must include methods used e.g. single sex housing, euthanasia of pregnant animals, etc. in the Husbandry section of this protocol)

10. Y **Biological materials, e.g., human fetal tissues, human or animal cells, tissues, antibodies?**

This letter is to confirm that I have read the ethical guidelines for this manuscript, and we fulfilled all the criteria for the research and the university approved all the requirements for the conducted study.

Please contact me if you have any queries.



Mujib Ullah