



MGH Human Immune System Mouse Program

Andrew M. Tager, M.D., Director

Vladimir D. Vrbanc, D.V.M., Associate Director

Tel: 857.268.7094

Fax: 617.726.5651

E-mails: amtager@mgh.harvard.edu

vvrbanac@mgh.harvard.edu

FEE SCHEDULE (prices in red effective as of April 1, 2017)

Mouse generation costs (due upon assignment of mice to experiments)

- BLT (Bone Marrow-Liver-Thymus) mice: These mice are generated by adoptive transfer of human CD34+ stem cells, and transplantation of autologous human thymic grafts, into immunodeficient mice. This version of humanized mice have the most functional human immune systems, and is illustrated in the article: "**Induction of robust cellular and humoral virus-specific adaptive immune responses in human immunodeficiency virus-infected humanized BLT mice**" by Brainard, et al. BLT mice cost \$1,000/mouse.
New rate \$800/mouse.
- Hu-HSC mice: These mice are generated by adoptive transfer of human CD34+ stem cells into immunodeficient mice. Hu-HSC mice cost \$750/mouse.
New rate \$600.00
- Hu-PBL mice: These mice are generated by adoptive transfer of human peripheral blood leukocytes into immunodeficient mice. Hu-PBL mice cost \$250/mouse plus costs of the PBL.
New rate \$350/mouse.
- Hu-CD4+ mice: These mice are generated by adoptive transfer of purified human CD4+ T cells into immunodeficient mice. Hu-CD4+ mice cost \$250/mouse plus costs of the CD4+ cells.
New rate \$300/mouse.

Reimbursement policy for excessive mouse loss

Mouse generation costs will be reimbursed for any mice lost due to chronic wasting or GvHD syndromes at greater than the following rates. Of note, mouse losses above these rates will not be reimbursed if therapeutics administered to mice as part of investigators experiments produce illness independently, or accelerate chronic wasting or GvHD as compared to control animals in the same experiments.

Time post-initiation of experiment	Limit of mouse loss
2 weeks	10%
4 weeks	20%
6 weeks	30%

8 weeks	40%
12 weeks	50%

Mouse procedure costs (due upon completion of experiments)

SERVICE CHARGES	per uninfected mouse (\$)		per HIV-infected mice (\$)	
Vaccination				
Intraperitoneal	20	20	40	25
Subcutaneous	30	45	60	25
Intradermal	40	25	80	30
Intravenous	30	30	60	45
Intramuscular	25	35		
Adoptive cell transfer				
Intraperitoneal	20	20	30	25
Intravenous	30	95	75	45
Intraperitoneal	30	20	60	25
Intravaginal	50	40	100	50
Drug administration				
Intraperitoneal	20	20	40	25
Oral gavage	20	40	40	50
Intravaginal	30	60	60	60
Intravenous	30	30	75	45
Intramuscular	30	25	60	35
Sub-cutaneous	30	20	60	25
Blood sample acquisition				
Pre-mortem (small volume)	20	60	40	40
Terminal (large volume)	40	90	80	60
Infection				
Intraperitoneal	30	60	60	25
Intravaginal	50	60	100	55
Intravenous	50	90	100	45
Intrauterine	60	50	120	80
IU Injection	50	35		
IN Application	30	35		
IU Boost	50	35		
IN Boost	30	35		
IU Challenge	50	35		
IN Challenge	30	35		
Tissue sample acquisition				
Spleen	20	90	40	95
Lymph nodes	40	135	80	130
Female reproductive tract	50	60	100	70
GI tract	30	50	60	70
Brain	75	70	150	85
Liver	20	45	40	60
Thymic graft	20	45	40	60

Bone marrow	50	70	100	100
Peritoneal lavage	50	75	100	80
Lungs	30	45	60	55
Kidney	20	45	40	40
Skin	20	45	40	40

Cardiac puncture and flush	75	75	150	120
-----------------------------------	----	-----------	-----	------------

Tissue sample preparation				
Splenocyte extraction + cell counting	100	115	200	220
Serum extraction	50	115	100	155
Antibody staining and flow cytometry	30	115	40	220

Anesthesia				
Inhalation (Isoflurane)	20	110	40	40
Injection (ketamine/xylazine)	30	110	60	70

Water bottle medication or special food application				
Water bottle – per week per cage		50		60
Food change per week per cage		50		70

IVIS imaging		200		45
---------------------	--	-----	--	-----------

- ❖ Please note that our surgical capabilities are larger than stated on the HISMP Fee Schedule. We are able to perform new, original surgery-related experiments that are not specified on the price list. Arrangements for this can also be discussed with the HISMP Associate Director.

Per diem costs

\$1.23/cage/day per diem costs (FY2016) charged by the MGH animal facility will be passed through to investigators for the time periods that mice are in their experiments. The maximum number of mice per cage is five. Mice in different treatment groups in a given experiment will be housed in different cages.

Virus costs

We recommend obtaining HIV stocks for infecting the humanized mice from the Ragon Virology Core ([Ragon Institute Virology Core](#)). The virology core will bill investigators separately for viruses and/or services they provide.