TAIPEI MEDICAL UNIVERSITY

CORE FACILITY CENTER, OFFICE OF RESEARCH AND DEVELOPMENT

Cell Sorting Application Form

1. Applicant Information (Please Print)

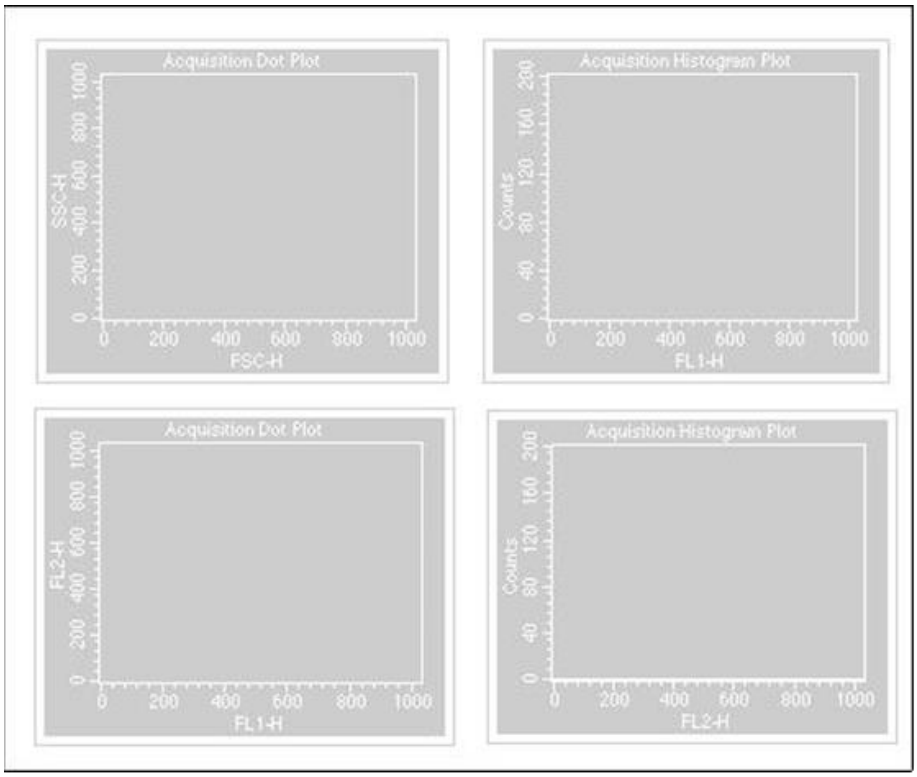
Name of applicant：	Date of application：
Department：	Phone number：
Estimated sorting date：	Estimated sorting time：
E-mail：	Advisor's Signature
Payment methods： ☐ TMU users - School budget or cash ☐ External users - Cash or ATM transfer	

2. Sample Information

Cell source： ☐ Human ☐ Mouse ☐ Rat ☐ Other：_____ ☐ Cell line ☐ Primary ☐ Other：_____	
Sample Numbers：_____Tube(s)	Cell Concentration：_____cells/ml
Cell size (Diameter)： ☐ <12 μm ☐ 12～20 μm ☐ >20 μm	
Do the samples tend to aggregate in the static state? ☐ Yes ☐ No	
Have EDTA or Accutase been added to the samples？ ☐ Yes ☐ No	
Have the samples been treated with DNAse I？ ☐ Yes ☐ No	
Have the samples been stained with PI or 7-AAD？ ☐ Yes ☐ No	
Were the samples filtered？ ☐ Yes ☐ No	
Were the samples fixed？ ☐ Yes ☐ No	
Do the samples contain human pathogens？ ☐ Yes ☐ No If the answer is yes, please provide information：_____.	

Dyes
488 nm laser excitation： ☐ FITC (Blue E) ☐ PerCP (Blue B) ☐ PE、PI (Blue D) ☐ PerCP-Cy5.5 (Blue B) ☐ PE-Texas Red (Blue C) ☐ PE-Cy7 (Blue A)
375 nm laser excitation： ☐ Hoechst Blue, DAPI (NUV A) ☐ Hoechst Red (NUV B)
Other fluorescence dye：If the dye is not in the form, please indicate the name and fluorescent Ex / Em Information._____.

3. Pre-sorting ”Target Cell” Distribution



4. Sorting requirements

Sorting process：☐ general sorting ☐ sterilize sorting ☐ general analysis (The rest can be omitted if you select this option)
Which is more important in your sorting process？ ☐ Yield ☐ Purity
Sorting method：☐ 2-Tube Sort ☐ 4-Tube Sort
Sorting tube： ☐ 5ml Falcon Tube ☐ 15ml centrifuge tube
Temperature requirements ：☐ 4˚C ☐ 20˚C ☐ RT ☐ 37˚C ☐ 42˚C
Expected number of cells to be sorted out： ☐ _____ cells ☐ sorting all of the sample

5. Precautions

a. Cell size determines the size of the nozzle when sorting, please use fluorescence microscopy for cell size measurements in order to facilitate optimal conditions for the machine's settings.
b. Cell should be prepared with 1X PBS, and depending on the circumstances 0.2-μm filtered 1mM EDTA, 25 mM HEPES pH 7.0 or 1% FBS can be added.
c. Recommended cell concentration：
Lymphocyte - $1x10^7$ cells/ml, cell line –$5x10^6$ cells/ml.
d. Please prepare culture medium to resuspend sorted cells.
e. Please provide a blank according to experimental control group, and a single dye sample for machine parameter setting.
f. Application form should be handed to CORE FACILITY CENTER at least **7** days before your sorting day.