IN VITRO PROTON BEAM TIME REQUEST	Date Approved:
Please email completed form to <u>ProtonResearch@cchmc.org</u> .	Project ID:
	To be completed by Proton Stuff

1. EXPERIMENT INFORMATION

1a. Form Submission Date:	1b. Principal Investigator:	1c. Pro	ject Contact (Name and Phone Number):
1d. Project Title:			
1e. Assigned Project ID:	1f. Requested Beam Time (e.g., 1	nour):	1g. Preferred Irradiation Date(s):
From Approved Project Application			

The proton research team requests that users provide advance notice of any intended publication or sharing of proton data including grant applications, posters, oral presentations, or manuscript submissions.

2. EXPERIMENT OBJECTIVES

2a. Briefly summarize the overall objective of the project and indicate whether anything has changed since the project application was approved.

2b. Describe the goal of this experiment and indicate how it relates to the objective of the larger project.

2c. Provide a full list of measurements required (e.g., cell survival, RNA, protein assays, etc.).

2d. Define the endpoint of the experiment.

3. MODEL INFORMATION

3a. Cell line name	
3b. Special requirements for cell	
maintenance (e.g., hypoxic environment)	
3c. Independent variable (e.g., transfections, drug exposure, etc.)	
3d. Cell manipulation to be performed at	
Liberty PTC (e.g., plating)	

4. RADIATION TREATMENT SETUP

4a. Type of plate or container to be irradiated	
(e.g., 6-well, T25, etc.)	
Note: all wells on the same plate will be	
irradiated the same.	
4b. Beam particle/preferred delivery	
platform	
4c. Transmission or Bragg peak treatment	
Note: FLASH can only be done transmission	
4d. Does the experiment include a high dose	
rate (FLASH) group?	

5. EXPERIMENTAL SETUP

Groups	# Of Plates/Flasks	Treatment (e.g., dose, dose rate, fractionation, etc.)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

6. EXPERIMENTAL PROTOCOL

Date	Procedure (e.g., plating, treatment, data collection, etc.)
Day	

7. REQUIRED BEAM TIME ESTIMATION

7a. Use the guaranteed minimum productivity rates below, rounding up to the nearest hour, to estimate the required beam time.

2 plates of 8 Gy per 30 minutes	5 plates of 4 Gy per 30 minutes
3 plates of 6 Gy per 30 minutes	10 plates of 2 Gy per 30 minutes
4 plates of 5 Gy per 30 minutes	20 plates of 1 Gy per 30 minutes

Note: The max dimension for cell plates is 14 x 10 cm. If you need a bigger dimension, please contact us.

Note: An experiment with a combination of FLASH and conventional irradiations in the same day takes longer due to the needed time to make adjustments to deliver different types of irradiations.

Dose = Proton physical dose Photon equivalent dose (Assuming RBE 1.1) = Proton physical dose *1.1

8. OTHER NOTES

8a. Do you intend to use the cell incubator at Liberty for an extended period of time? Yes No

8b. If there is any additional information you want to share or anything you want to elaborate on, please use this space.

8b. Please attach on a separate page any piece of data you want our team to review in regard to your request.