

# Dartmouth College HANOVER • NEW HAMPSHIRE • 03755 37 Dewey Field Rd, Suite 6216 • Tel: (603) 646-1762 • Fax: 646-2622

ENVIRONMENTAL HEALTH AND SAFETY http://www.dartmouth.edu/~ehs/

### APPLICATION FOR RADIOACTIVE MATERIAL USE

(*Please TYPE all information*. If you have any questions, please call 646-1762)

1.	Name of Request	ing PI:					
2.	Date of Request:						
3.	Schools and Depa	artment:					
4.	Location of Lab:	(Bu	ilding	g / Room Number)			
5.	Contact Informat		HB Number / Phone				
		Ema	ail ad	dress			
6.	<b>RADIONUCLIDES REQUESTED:</b> Radionuclides for which permission is requested (For amount, list the maximum possession in lab at any one time):						
	Radionuclide	Chemical Fo	orm	Total Activity (mCi)	Chemical Reactivity		
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<b>RADIONUCLIDE USAGE:</b> Please provide justification for the <b>requested</b> amount of each radionuclide. Briefly describe how each radioactive material will be used in your experiments and estimate how often each experiment will be done per week or month. Consider what the minimal ordering requirements may be as well. (e.g., P-32 - 50 uCi of P32-dATP will be to end-label oligo-nucleotide probes. The labeling will be done 1-2 times per month; the total will be approx. 100 uCi.). <i>If performing metabolic experiments, please attach a standard operating procedure for contamination control.</i>						
jor contamination control.						

8.	MIXED WASTE GENERATION: Will mixed waste be generated, (e.g., radioactive phenol / chloroform, trichloroacetic acid, methanol, ethanol, acetone)?						
		YES		NO			
	If yes, please list chemical and isotope combination(s)						
Please refer to the Dartmouth EHS <i>Hazardous Waste Guide</i> for proper radioactive was management. If there is a likelihood of mixed waste generation, please consult EF prior to generation.  9. <b>RADIATION DETECTION:</b> List radiation detection instruments (e.g., survey meters). All new and re-authorized labs using high energy emitters (greater than 200 keV e.g. P-32 beta) must have a Ludlum model with 44-9 probe.							
	Rad Monitor Manufacturer	Model	Serial Number	Location of Instrument			
	<b>Liquid Scintillation Counter:</b> Users of weak beta emitters (e.g., H-3/C-14/S-35) must have access to a liquid scintillation counter for monitoring lab contamination.						
	Rad Monitor Manufacturer	Model	Serial Number	Location of Instrument			

(refrigerator / freezer); the location of rad waste storage area(s). Sharing lab space with another Principal Investigator requires the submission of Shared Space Agreement.								
	Sharing lab space?	YES	S	NO				
	If yes, submit a signed sha	red space agre	eement with th	ie PI you	are sharing :	space with	1.	
11.	<b>LABORATORY PERSONNEL:</b> List <b>ALL</b> coworkers in your laboratory, including those not working with radioactivity. (If necessary, use another sheet for additional names).							
	NAME	Position Status (PI, Undergrad, Graduate, Reseacher)	List Which Isotopes To Be Used (or NONE)	Will use X-rays? (Y/N)	Years of experience (or NONE)	Has attended training? (Y/N)	Has RAD badge? (Y/N)	

**LABORATORY MAP.** Attach a map and indicate the chosen area(s) for radioactive material use experiments; the location of rad material storage

10.

12. **Submit and attach** an updated CV for the requesting PI. (This is not necessary if the CV listed in BioRaft® is less than 3 years old.) Ensure the CV submitted lists your previous work experience with radioactive materials.

#### **SCIENTIFIC PEER REVIEW:**

All research with radioactive material under the Dartmouth College license (NH 276R) is soley, "To be used in research and training as authorized by the Radiation Safety Committee." Research and training includes but is not limited to, "Theorectical analysis, exploration, experimentation; or the extension of investigative findings." Normally, peer review takes place during the processing of a grant application.

I confirm this scientific research with Radioactive Material as defined in this application will be for the promotion of educational and research purposes.

Signature:	Date:
(Dean of School required for the T	hayer School of Engineering and
College of Arts and Sciences. Departmer	ntal Chair required for the Geisel
School of Medicine)	
ASSURANCES:	

As the Principal Investigator on this protocol, I acknowledge by my signature below:

# A. Financial Decommissioning:

I certify that the funding is available for the decommissioning of thie laboratory space(s) where the radioactive material use occurred.

# B. <u>Duplication of Effort</u>:

I have made a reasonable, good faith effort to ensure that this protocol is not an unnecessary duplication of previous experiments.

## C. Radiological, Chemical, Biohazard Safety:

I have taken into consideration, and I have made the proper coordination regarding all applicable rules and regulations regarding radiation protection, chemical and biologic safety, etc., in the preparation of this protocol.

## D. Training:

I verify that the personnel performing the experimentations using radioactive material as described in this permit are technically competent and

have been properly trained in accordance with the current EHS policy for radioactive material use. Inexperienced personnel will be supervised. Training can be verified in BioRaft: https://dartmouth.bioraft.com/

SIGNATURE:Principal Investigator	DATE:	
Radiation Safety Committee Decision:		
APPROVED / I	DENIED	
RSO SIGNATURE:	DATE:	
Date of RSC Decision Letter to PI:		