



STOWERS INSTITUTE®
FOR MEDICAL RESEARCH

26 January 2010

Materials Licensing Section
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

Subject: **LICENSE AMENDMENT APPLICATION – PLEASE EXPEDITE**
License No: 24-32242-01

The Stowers Institute for Medical Research (Stowers Institute) requests an amendment to the U.S. Nuclear Regulatory Commission (NRC) Radioactive Materials License, as detailed below. The item numbers correspond to those on the NRC Form 313, Application for Material License. Only those items pertinent to this amendment are listed.

Item 1. This application is for amendment of license no. 24-32242-01

Item 2. The name and mailing address of the applicant:

Stowers Institute for Medical Research
1000 E. 50th Street
Kansas City, MO 64110

Item 3. Same address as above.

Item 4. The person to be contacted about this application is Ms. Tonyea R. Inglis, Radiation Safety Officer, phone (816) 926-4434, fax (816) 926-2076; e-mail tri@stowers.org.

Item 7. The following person is already an authorized user on this license for Phosphorus-32 and Sulfur-35. The Stowers Institute requests the **addition** of the following person to the license as an authorized user for the **additional** corresponding material listed:

Jennifer Gerton, Ph.D.
Associate Investigator

Phosphorus-32 (already listed)
Sulfur 35 (already listed)
Hydrogen-3(wish to add at this time)

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Jennifer Gerton previous radiation safety training:

Training courses were general in nature, covering the principals of radiation protection, radioactivity measurements, and biological effects of radiation exposure.

Course Title	Institution	Duration of Training
Radiation Safety (Graduate Student)	Stanford University	2 Hours
Radiation Safety	UNC, Chapel Hill	2 Hours
Radiation Safety	UCSF	2 Hours
Radiation Safety Training	Stowers Institute for Medical Research	3 hours initial + annual refresher

Jennifer Gerton previous experience with radioisotopes:

Dr. Gerton has been listed as an Authorized User on our license since 2003 and has been supervising work with radioisotopes since that time period. She is currently an Authorized User of P32 and S35. While Dr. Gerton has no personal hands-on experience in handling H3, a post-doc in her lab who has extensive experience will be conducting the majority of the experiments; including the supervision and hands-on training of any lab personnel that need to use it.

Dr. Gerton has the following experimental plans for the use of H3: in vitro acetylation assays

Biochemical assays will be conducted in a test tube in which the tritium label is transferred from acetyl coA to a target protein. The tritium will be detected either by exposure of a gel containing the tritiated protein to a phosphorimager screen or by scintillation counting. Each experiment requires approximately 10 uCi.

If you have any questions or require additional information, please contact me at the number(s) listed in Item 4. Thank you in advance for your prompt action on our behalf.

Stowers Institute for Medical Research



Tonyea R. Inglis
Radiation Safety Officer



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