

STOWERS INSTITUTE®
FOR MEDICAL RESEARCH

31 August 2011

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 Stowers Institute requests the **addition** of the following person to the license as an authorized user for the corresponding materials listed:

Alejandro Sanchez Alvarado, Ph.D.
Investigator

Phosphorus-32
Phosphorus-33
Sulfur-35

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Alejandro Sanchez previous radiation safety training:

Training courses were general in nature, covering the principals of radiation protection, radioactivity measurements, biological effects of radiation exposure, characteristics of ionizing radiation, units of radiation dose and quantities, and radiation detection instrumentation.

Course Title	Institution	Duration of Training
Radiation Safety, 1985	Washington University, St. Louis	4 hours
Radiation Safety, 1988	University of Cincinnati School of Medicine	6 hours
Basic Radiation Sciences, 1994	Carnegie Institute of Washington	8 hours
Radiation Safety, 2002	University of Utah	8 hours

Alejandro Sanchez previous experience with radioisotopes:

Investigator's previous personal experience includes gene expression studies and immunoblotting using P32, P33 and S35 labeled nucleotides. The activity levels handled during each study were generally less than 1 mCi. This experience extended over the course of more than 5 years.

Experimental plans for the use of P32, P33 and S35: isotopes will be used in immunoblotting (using established procedures) to confirm the presence or absence of reactivity to a particular protein or nucleotide sequence. Northern and Western blotting are the primary anticipated techniques. The activity levels handled during each study will be generally less than 1 mCi. Each experiment is expected to take approximately 2 days.

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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