UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

May 18, 2007

Docket No. 03037210 License No. 45-31155-01
Control No. 140465

Gerald M. Rubin
Director
Howard Hughes Medical Institute
Janelia farms Research Campus
19700 Helix Drive
Ashburn, VA 20147

SUBJECT: HOWARD HUGHES MEDICAL INSTITUTE, LICENSE AMENDMENT, CONTROL NO. 140465

Dear Mr. Rubin:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **Regulations, Guidance, and Communications.** You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Thomas K. Thompson

Thomas K. Thompson
Senior Health Physicist
Commercial and R&D Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 1

cc:
Essala Lowe, Radiation Safety Officer

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SUNSI Review Complete: TThompson
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U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Amendment No. 01

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

1. Howard Hughes Medical Institute (HHMI)

2. Janelia Farm Research Campus
19700 Helix Drive
Ashburn, Virginia 20147

In accordance with letter dated April 27, 2007

3. License number 45-31155-01 is amended in its entirety to read as follows:

4. Expiration date November 30, 2016

5. Docket No. 03037210
Reference No.

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Hydrogen 3	A. Any	A. 50 millicuries
B. Phosphorus 32	B. Any	B. 100 millicuries
C. Sulfur 35	C. Any	C. 100 millicuries
D. Iodine 125	D. Any	D. 10 millicuries
E. Phosphorus 33	E. Any	E. 100 millicuries

9. Authorized use:

A. through E. Research and development as defined in 10 CFR 30.4.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at Janelia Farm Research Campus, 19700 Helix Drive, Ashburn, Virginia.

11. Licensed material shall be used by, or under the supervision of, Sean Eddy, Ph.D.,Tim Brown, Ph.D. and Kevin McGowan, Ph.D.

12. The Radiation Safety Officer for this license is Essala Lowe.

13. The licensee shall not use licensed material in or on human beings.

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14. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.

15. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:

    A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and

    B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and

    C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.

16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

    A. Application dated May 15, 2006 (ML061390336) Attachment 3 only
    B. Letter dated June 13, 2006 (ML061770051)
    C. Letter dated October 27, 2006 (ML063050324)

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License Number
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For the U.S. Nuclear Regulatory Commission

Date May 18, 2007

By ***Original signed by Thomas K. Thompson***

Thomas K. Thompson
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406