



STATE OF WISCONSIN
DEPARTMENT OF HEALTH SERVICES

RADIOACTIVE MATERIALS LICENSE

Under s.254.365, Wisconsin Statutes and Chapter **DHS 157**, Wisconsin Administrative Code, and in reliance on statements and representations made by the licensee, a license is issued authorizing the licensee to receive, acquire, possess and transfer radioactive material designated below; to use the material for the purpose(s) and at the place(s) designated below; and to deliver or transfer the material to persons authorized to receive it in accordance with Chapter **DHS 157**, Wisconsin Administrative Code. This license is subject to all applicable rules and orders of the Wisconsin Department of Health Services (DHS) including Chapter **DHS 157**, Wisconsin Administrative Code now or hereafter in effect, and to any conditions specified below.

Licensee Name and Address 1. Marquette University Office of Research Compliance 2. 560 North 16 th Street Milwaukee, WI 53201-1881	<p style="text-align: center;">In accordance with the application dated March 6, 2008</p> 3. License No: 079-1161-01 <hr/> <p style="text-align: center;">is renewed in its entirety to read as follows:</p> 4. Amendment No.: 05 5. Expiration Date: March 31, 2013
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6. Radioactive material	7. Chemical and/or physical form	8. Maximum amount of radioactive materials that the licensee may possess at any one time under this license:	9. Authorized Use:
A. Calcium-45	A. Any	A. 10 millicuries	A through H. Research and development as defined in DHS 157.03; animal studies; teaching and training of students. I. To be used as anti-static devices in instruments used for studying physiological properties of single muscle fibers.
B. Carbon-14	B. Any	B. 100 millicuries	
C. Hydrogen-3	C. Any	C. 400 millicuries	
D. Iodine-125	D. Any	D. 50 millicuries	
E. Phosphorus-32	E. Any	E. 150 millicuries	
F. Phosphorus-33	F. Any	F. 50 millicuries	
G. Sulfur-35	G. Any	G. 150 millicuries	
H. Cobalt-57	H. Sealed Source	H. 200 millicuries	
I. Americium-241	I. Foil Sources (Amersham Corp. Model No. AMM. 1001)	I. 5 sources not to exceed 25 microcuries each	

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CONDITIONS

10. **Licensed material shall be used only at the licensee's facilities identified in Item 9 of the licensee's application dated March 6, 2008 located at the campus of Marquette University, including 530 North 15th Street, Milwaukee.**
11. The Radiation Safety Officer for this license is Michael R. Schäppi, Ph.D.
12. **Licensed material shall only be used by, or under the supervision of individuals who have received the training described in the application dated June 9, 2008, have been instructed in the licensee's operating and emergency procedures, and have been approved in writing by the Radiation Safety Committee. The licensee shall maintain records of individuals designated as users for three years after the individual's last use of licensed material.**
13. The licensee is authorized to transport licensed material in accordance with the provisions of Chapter DHS 157, 'Radiation Protection', Subchapter XIII, 'Transportation'.
14. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific conditions of this license.
15. Experimental animals or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
16. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
17. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by DHS, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, location of the sealed sources, and the date of the inventory.
18. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
19. This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to DHS 157.11 or to persons exempt from licensing pursuant to DHS 157.09(2)(b).
20. **Radioactive waste possessed under this license shall be stored in accordance with the statements, representations, and procedures included with the licensee's waste management plan described in the licensee's application dated March 6, 2008.**

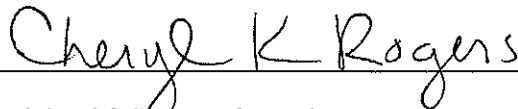
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21. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. Chapter DHS 157, 'Radiation Protection' shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the rule.
- A. **Application (excluding Items 5, 6, 7, 8, 10.2, 10.3, 10.4 and 10.7), with attached documents, dated March 6, 2008, and signed by William Wiener, Ph.D.**
 - B. **Application, with attached documents (excluding Items 11 and 12.6, and Appendices A, B and U - Marquette University Radioactive Isotope Users Manual), dated June 9, 2008, and signed by William Wiener, Ph.D.**
 - C. **Letter dated February 2, 2009 and signed by Michael Schlappi, Ph.D. and William Wiener, Ph.D.**

FOR THE WISCONSIN DEPARTMENT OF HEALTH SERVICES



SIGNATURE

Materials Program Supervisor

219609

DATE