# RADIOACTIVE MATERIAL LICENSE

Pursuant to the Texas Radiation Control Act and Texas Department of State Health Services (Agency) regulations on radiation, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified below.

<table>
<thead>
<tr>
<th>1. Name</th>
<th>2. Address</th>
<th>3. License Number</th>
<th>4. Expiration Date</th>
<th>Amendment Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAYLOR UNIVERSITY</td>
<td>ONE BEAR PLACE #97290 WACO TX 76798-7290</td>
<td>L00343</td>
<td>January 31, 2019</td>
<td>46</td>
</tr>
</tbody>
</table>

This license is amended in accordance with correspondence dated September 18, 2019.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Carbon-14</td>
<td>A. Solid or liquid</td>
<td>A. 50 millicuries</td>
<td>A. Research and education.</td>
</tr>
<tr>
<td>Cesium-137</td>
<td>B. Sealed source (Beckman Coulter model 598860)</td>
<td>B. 30 microcuries</td>
<td>B. Reference source for a Beckman coulter Model LS 6500 Series liquid scintillation counting system.</td>
</tr>
<tr>
<td>Hydrogen-3</td>
<td>C. Solid or liquid</td>
<td>C. 50 millicuries</td>
<td>C. Research and education.</td>
</tr>
<tr>
<td>Iodine-125</td>
<td>D. Solid or liquid</td>
<td>D. 25 millicuries</td>
<td>D. Research and education.</td>
</tr>
<tr>
<td>Phosphorous-32</td>
<td>E. Solid or liquid</td>
<td>E. 50 millicuries</td>
<td>E. Research and education.</td>
</tr>
<tr>
<td>Strontium-90</td>
<td>F. Sealed source (QSA Model SICB10698; AEA Model SIPQ8026; EZN GmbH Model SICB17560)</td>
<td>F. 120 millicuries</td>
<td>F. Research and education using a RISØ Automated TL/OSL Dating System.</td>
</tr>
<tr>
<td>Sulphur-35</td>
<td>G. Solid or liquid</td>
<td>G. 50 millicuries</td>
<td>G. Research and education.</td>
</tr>
</tbody>
</table>
RADIOACTIVE MATERIAL LICENSE

9. Radioactive material shall only be stored and used at:
   
   Site Number  Location
   000          Waco – 101 Bagby Avenue, Baylor Sciences Building, Rooms A426, B311, C257, C357, C316, E306, E456, and F110
   
   **209 Speight Avenue, Creekside Annex** (Records Only*)

   *No use or storage of RAM is permitted at a records only location

10. This license is issued in accordance with Title 25 Texas Administrative Code §289.252(e), “General requirements for the issuance of specific licenses.”

11. The individual designated to perform the functions of Radiation Safety Officer (RSO) for activities covered by this license is Karalyn Humphrey, Ph.D.

12. Radioactive material shall only be used by, or under the supervision of, the following individuals:

   **Authorized User/Principal Investigator**  **Uses**
   Forman, Steven L., Ph.D.              Sealed or plated sources
   Kebaara, Bessie W., Ph.D.            Unsealed radioactive material
   Min, Jung-Hyun, Ph.D.                Unsealed radioactive material
   Trakselis, Michael A., Ph.D.         Unsealed radioactive material
   Trawick, Mary Lynn, Ph.D.            Unsealed radioactive material

13. The licensee shall not open sealed sources containing radioactive material or remove sources from source holders.

14. The licensee shall not use radioactive material in or on human beings, or in field applications where such activity is released unless otherwise provided by a specific condition of this license.
RADIOACTIVE MATERIAL LICENSE

15. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage and dispose of it as non-radioactive in accordance with procedures described in application dated August 18, 2008 and letter dated March 24, 2016 (with updated Radiation Safety Manual).

16. Except as specifically provided otherwise by this license, the licensee shall possess and use the radioactive material authorized by this license in accordance with statements, representations, and procedures contained in the following:

Application dated December 18, 2008,
Electronic mail dated May 18, 2009.

Title 25 TAC §289 shall prevail over statements contained in the above documents unless such statements are more restrictive than the regulations.

VJD:vjd

Date September 25, 2019

FOR THE DEPARTMENT OF STATE HEALTH SERVICES

J. Scott Kee, Program Coordinator
Medical and Academic Licensing Program
January 7, 2019

BAYLOR UNIVERSITY
ATTN KARALYN HUMPHREY PHD
ONE BEAR PLACE #97290
WACO TX 76798-7290

Re: License No. L00343
Application No. 29605

Dear Dr. Humphrey:

This letter acknowledges the timely receipt of an application, dated December 21, 2018, to renew your Radioactive Material License No. L00343. Under the provisions of Title 25 Texas Administrative Code (TAC) Section 289.252(z), we hereby authorize you to continue operating under the authorizations of your present license until we have completed action on your license renewal request.

This letter should be retained in your files as verification that your license remains valid until a renewal amendment is issued, or the request is denied.

If I may be of assistance with your radiation safety program, please contact me at (512) 231-5674 or vanessa.danese@dshs.texas.gov.

Sincerely,

Vanessa Danese, License Reviewer
Radioactive Materials Licensing