Tri-State Biotherapeutics, Ltd. Suite 211 * 2800 Winslow Avenue * Cincinnati, Ohio 45206 * (513) 559-1101 June 24, 1988 Evelyn R. Matson Materials Licensing Section U.S. NRC Region III 799 Roosevelt Road Re: Licence #34-25858-01 Glen Allyn, 111. 60137 Please make the following amendments to the above Materials License. Remove Nancy Larson, add Dr. John Michael Kilpatrick as the Radiation Safety Officer, and Dr. Suzanne K. Beckner as an authorized user of radioactive materials (summary of formal training and experience enclosed). Enclosed is a check for \$60.00 for the fee required in 10 CRF part 170, Section 107.31. Sincerely, Shirley A. Viner Administrative Assistant Enclosures Date Conjust JUN 2 7 1988 CONTROL NO. 85667 8905040322 880714 REG3 LIC30 34-25868-01 PD0 PDC 357 Riverside Drive • P.O. Box 1676 • Franklin, Tennessee 37065-1676 • (615) 794-4700

Suzanne Beckner, Ph.D.

Ph.D., Biochemistry, 1980, Georgetown University
B.S., Biology, 1971, Hood College

A. Formal Training:

1971 - University of Virginia Radiation Safety Course - 16 hours.

1975 - Frederick Cancer Research Facility, National Cancer Institute Radiation Safety Course - 8 hours.

1979 - Georgetown Universit, -Radiation Safety, Health Physics Course - Graduate Level - 26 hours.

1980 - National Institute of Health Radiation Safety Course - 8 hours.

1985 - Frederick Cancer Research Facility, National Cancer Institute Radiation Safety Course - 8 hours

B. Experience:

| experience. | |
|-----------------|---|
| 1971-1975 | University of Virginia Charlottesville, Va. Research Associate |
| ³ H | (lmCi/month)-metabolic labelling of nuclrotides with cultured cells, cell fractionation |
| 14 _C | (250uCi/month)-metabolic labelling of proteins in cultured cells, gel electrophereses, in vitro protein synthesis |
| 1975-1977 | Frederick Cancer Research Facility National Cancer Institute Frederick, Md. Research Associate |
| | |

32p
 (2mCi/month)-viral nucleotide hybridization,
 isolation, gel electropheresis

³H (lmCi/month)-metabolic labelling of nucleotides in cultured cells

1977-1980 Georgetown University Washington, D.C. Graduate Student

> 125_I (3mCi/month)-iodination, purification of radiolabelled hormones, radioreceptor measurements, radio immune assay (RIA)

(500uCi/month)-ADP-ribosylation of cell membrane proteins, gel electropheresis, protein isolation and purification

(lmCi/month)-metabolic labelling of proteins in cultured cells, isolation

| 1980-1985 | National Institute of Archritis, Diabetes, Digestive & Kidney Diseases National Institutes of Health Bethesda, Md. Senior Staff Fellow |
|------------------|---|
| 1251 | (3mCi/month)-iodination, purification of radic- labelled hormones, radioreceptor measurements, radioimmune assays (RIA) |
| 32 _p | (2mCi/month)-biochemical measurements of ATP dependent enzymes in membrane preparations, product fractionation, isolation of phosphorylated proteins by gel electropheresis and column chromatography |
| 3 _K | (100uCi/month)-metabolic labelling of nucleotides in cultured cells, radioimmune assay (RIA) |
| 14 _C | (500uCi/month)-metabolic labelling of proteins and sugars in cultured cells, isolation, thin layer chromatography |
| 1985-1987 | Frederick Cancer Research Facility National Cancer Institute Frederick, Md. Senior Scientist Principle Investigator on license for LAK cell Group |
| 51 _{Cr} | (lmCi/month)-measurement of cytotoxicity in intact cells (as in proposed use) |
| ⁴⁵ Ca | (100uCi/month)-measurement of Ca flux into intra- cellular organelles |
| 32 _p | (100uCi/month)-quantitation of nucleotide binding to subcellular organelles, isolation, tractionation |
| 3 _H | (100uCi/month)-metabolic labelling of nucleotides in cultured cells |
| 125 | (10uCi/month)-radioimmune assay RIA |

SUPPLEMENT

U.S. NUCLEAR REGULATORY COMMISSION

TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER

| | 1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER | 2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED |
|---|---|---|
| 1 | John Michael Kilpatrick, ch.D. | |

| 3. CERTIFICATION | | | |
|------------------|----------|--------------------------|--|
| SPECIALTY BOARD | CATEGORY | MONTH AND YEAR CERTIFIED | |
| | 3100000 | | |
| | | | |
| | | | |
| | | | |

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

| | | TYPE AND LENGTH OF TRAINING | | |
|---|---|--|--|--|
| | FIELD OF TRAINING | LOCATION AND DATE (S) OF TRAINING | CLOCK HOURS IN LECTURE OR LABORATURY | CLUCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE |
| | | University of South Carolina - 1973 | 5 | 10 |
| | ADIATION BUVEICE AND | Med. University of S. Carolina - 1977 | | 12 |
| MADIATION PHYSICS AND INSTRUMENTATION | | University of Alabama at Birmingham — 1982 | | 12 |
| | | University of South Carolina - 1973 | 5 | |
| b. I | RADIATION PROTECTION | Med. University of S.C 1977, 1986 University of Alabama at Birmingham - 1982 | 3 | 12 8 |
| - | | University of South Carolina - 1973 | 3 | |
| c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY | Med. University of S. C 1977 | | 8 | |
| | University of Alabama at Birmingham — 1982 | | 8 | |
| under succession | | Savan ah River Ecology Lab | 2 | 24 |
| d. RADIATION BIOLOGY | | Medical University of S.C 1977 | 16 | 8 |
| | RADIATION BIOLOGY | University of Alabama at | | |
| | | Birmingham - 1982 | | 4 |
| | RADIOPHARMACEUTICAL CHEMISTRY | | | |

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

| 1SOTOPE | mICT USED AT ONE TIME | LOCATION | CLOCK HOURS | TYPE OF USE |
|------------------|-----------------------|--|-------------|--|
| н ³ | 5 | Medical Univ. of S.C. | 50 | Enzymatic assays, cytoxicity assays |
| Cr ⁵¹ | .5 | Medical Univ. of S.C. | 10 | Cytoxicity assays |
| 105 | | Univ. of Alabama at Birmingham | 20 | |
| I ¹²⁵ | 1 | Medical Univ. of S.C. Univ. of Alabama at | 1040 850 | RIA, Protein Clearance in vivo, Protein structure |
| I ¹³¹ | 1 | Birmingham Univ. of Alabama at | 70 | studies Protein Stucture Studies |