

DONALD DANFORTH PLANT SCIENCE CENTER

March 28, 2007 Toye L. Simmons Materials Licensing Branch U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352 Howard F. Beittenmiller Radiation Safety Officer Donald Danforth Plant Science Center

975 North Warson Road St. Louis, Missouri 63132

Re: Request for Amend License Number 24-32339-01 Docket Number 030-35805

Dear Ms. Simmons,

Enclosed, please find Form 313 and attached pages requesting amendment of the Materials License No. 24-32339-01 issued to the Donald Danforth Plant Science Center. The amendment request addresses the following areas:

- 1. Please remove the following Authorized Users from License: Karel R. Schubert, Ph.D. Erik Nielsen, Ph.D.
- 2. Please add Meinhart H. Zenk, Ph. D. to License as Authorized User for All Materials and Uses. Dr. Zenk's Curriculum Vitae with relevant information is attached.
- 3. The Danforth Center will abolish the formal position of Assistant Radiation Safety Officer. In the absence of the Radiation Safety Officer, Assistant RSO responsibilities will be assumed by volunteer Radiation Safety Committee members.

Thank you very much for your help in this matter.

Sincerely,

Howard Hertennell,

Howard F. Beittenmiller Radiation Safety Officer Donald Danforth Plant Science Center

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NRC FORM 313 U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008
(10-2005) 10 CFR 30, 32, 33,	Estimated burden per response to comply with this mandatory collection request: 4.4 hours. Submittal of the application is necessary to determine that the applicant is
34, 35, 38, 39, and 40	qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services
	Branch (1-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of
APPLICATION FOR MATERIAL LICENSE	Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), office of Management and Budget, Washington, DC 20503. If a means used to impose an information
	conduct or sponsor, and a person is not required to respond to, the information
	collection.
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:
WASHINGTON, DC 20555-0001	MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	2443 WARRENALLE ROAD, SUITE 210 LISLE, IL 60532-4352
IF YOU ARE LOCATED IN:	
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,	
KENTUCKÝ, MAINE, MARYLAND, MASSÁCHUSETTS, MISSISSIPPÍ, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE NEJ ANIE SOUTH CAROLINA, TRUNESSE V MEDIANA LAPONI MEDIANO OD	OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON,
ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:	OR WYOMING, SEND APPLICATIONS TO:
LICENSING ASSISTANCE TEAM	NUCLEAR MATERIALS LICENSING BRANCH
DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I	U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400
475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415	ARLINGTON, TX 76011-4005
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDICTIONS.	
1. THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)
A. NEW LICENSE	Donald Danforth Plant Science Center
B. AMENDMENT TO LICENSE NUMBER 24-32339-01	975 North Warson Road St. Louis, Missouri 63132
	,
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
Donald Danforth Plant Science Center	
975 North Warson Road	Howard F. Beittenmiller, Radiation Safety Officer
St. Louis, Missouri 63132	TELEPHONE NUMBER
	(314) 587-1051
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.	
5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maximum amount	6. PURPOSE(5) FOR WHICH LICENSED MATERIAL WILL BE USED.
which will be possessed at any one time.	
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY 3M AMOUNT ENCLOSED \$
13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.	
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.	
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A C RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURIS DICTION.	
CERTIFYING OFFICER - TYPEO/PRINTED NAME AND TITLE Roger N. Beachy, Ph.D., President	SIGNATURE DATE ZA CAZ
FOR NRC USE ØNLY / J	
	(NUMBER COMMENTS
\$	
APPROVED BY DATE	l

NRC FORM 313 (10-2005)

Professor Meinhart H. Zenk Member Donald Danforth Plant Science Center St. Louis, Missouri

Employment and Record of Radioisotope Use

2006-	Member, Donald Danforth Plant Science Center, St. Louis, MO
1999-2006	Honorary Professor University of Halle-Wittenberg Biocenter Halle, Germany
	Isotope Use: ³³ P: DNA labeling/hybridization ¹⁴ C: Enzyme assays, feeding experiments ³ H: Synthesis, product isolation
	Training: Institutional Radiation Safety Training Annual Refresher Radiation Safety Training
	Supervision: Responsible for graduate students, technicians, post-doctoral fellows, scientific guests.
1980-1999	Full Professor and Department Head Department of Pharmaceutical Biology University of Munich Munich, Germany
	Isotopes Used: ³⁵ S; Phytochelatin metabolism ³³ P: DNA labeling/hybridization ¹⁴ C: Radiochemical synthesis, feeding experiments ³ H: Radiochemical synthesis, feeding experiments, enzyme assays
	Training: Institutional Radiation Safety Training
	Supervision: Responsible for graduate students, technicians, post-doctoral fellows, undergraduate biochemistry laboratory course.

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Professor Meinhart H. Zenk Member Donald Danforth Plant Science Center St. Louis, Missouri

1968-1980	Full Professor and Department Head Department of Plant Physiology The Ruhr University Bochum, Germany
	Director of the Central Isotope Laboratory of the university Responsible for the departmental isotope laboratory
	Isotopes Used: ³² P: Metabolic studies ¹⁴ C: Synthesis and plant precursor feeding ³ H: Enzyme assays and plant precursor feeding
	Training: Taught Biology Department training course on safe use & handling of radioactive materials
	Supervision: Responsible for graduate students, technicians, post-doctoral fellows, scientific guests.
1959-1968	Assistant Botany Department University of Munich Munich, Germany
	Established the first radioisotope laboratory in a biology department of a German university in 1960
	Isotopes Used: ¹⁴ C: Precursor synthesis, plant feeding, isolation and degradation of radioactive plant metabolites ³ H: Precursor synthesis, plant feeding, isolation and degradation of radioactive plant metabolites
	Training: Teaching safe use & handling of radioactive materials
	Supervision: Doctoral students
1956-1959	Graduate student Department of Biology / Horticulture Purdue University West Lafayette, IN

Professor Meinhart H. Zenk Member Donald Danforth Plant Science Center St. Louis, Missouri

> Isotope Used: ¹⁴C: Enzyme assays, feeding experiments in animals and plants, photosynthesis, radioactive metabolite isolation and degradation for elucidation of labeling pattern

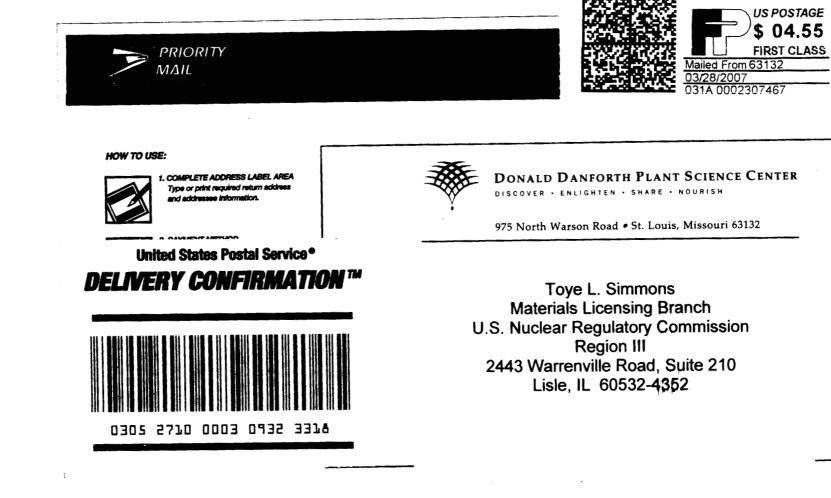
Training: Graduate courses on the use of isotopes in biology and safety training

Supervision: None



FOR PICKUP CALL 1-800-222-1811

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EP-14B JANUARY 2002

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