

United States Department of Agriculture  
 Animal and Plant Health Inspection Service  
 4700 River Road  
 Riverdale, MD 20737

**Permit to Move Live Plant Pests, Noxious Weeds, and Soil**  
 Interstate Movement  
**Regulated by 7 CFR 330**

This permit was generated electronically via the ePermits system

<b>PERMITTEE NAME:</b>	Dr. Erik Andersen	<b>PERMIT NUMBER:</b>	P526P-17-01325
<b>ORGANIZATION:</b>	Northwestern University	<b>APPLICATION NUMBER:</b>	P526-170308-021
<b>ADDRESS:</b>	Department of Molecular Biosciences 2205 Tech Dr. Evanston, IL 60208	<b>FACILITY NUMBER:</b>	2980
<b>MAILING ADDRESS:</b>	Department of Molecular Biosciences 2205 Tech Dr. Evanston, IL 60208	<b>HAND CARRY:</b>	No
<b>PHONE:</b>	847-467-4382	<b>DATE ISSUED:</b>	04/07/2017
<b>FAX:</b>		<b>EXPIRES:</b>	<b>04/07/2020</b>
<b>DESTINATION:</b>	Dept. of Molecular Biosciences, Northwestern University, 2205 Tech Dr. Cook Hall Lab 3117, Evanston, IL 60208-3500		
<b>RELEASE:</b>	No		

Under the conditions specified, this permit authorizes the following:

**Article Category:** Isolation and Identification of Organisms

<u>Regulated Article</u>	<u>Life Stage(s)</u>	<u>Intended Use</u>	<u>Shipment Origins</u>	<u>Originally Collected</u>	<u>Culture Designation</u>
Nematodes	Adult, Egg, Larvae, Pest-infected plant material, Petri dishes/culture tubes, Plant Parts	Research - Lab	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from USA including territories	Nematode growth medium petri plates

**PERMIT GUIDANCE**

Receipt or use of foreign isolates or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury (see <http://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx> for current country/regional listings) for current country listings.


This permit does not authorize importation, interstate movement, possession, and/or use of strains of genetically engineered regulated organisms (created by the use of recombinant DNA technology).

If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to [http://www.aphis.usda.gov/import\\_export/animals/animal\\_import/animal\\_imports\\_anproducts.sh](http://www.aphis.usda.gov/import_export/animals/animal_import/animal_imports_anproducts.sh) tml.

This permit does not fulfill the requirements of other federal or state regulatory authorities. As appropriate, please contact the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, or your States Department of Agriculture to ensure proper permitting.

If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date

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THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
 Carl Schulze	04/07/2017

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

of this permit to ensure continued coverage. Permits requiring containment facilities may take a longer period of time to process.

**PERMIT CONDITIONS**


This permit authorizes the interstate movement of the listed organisms or host material infected with the listed organisms on culture plates from various researchers within the United States and its territories to Erik Andersen at Northwestern University in Evanston, Illinois for laboratory research in Containment Facility #2980 (CF#2980).

1. The permit holder must:
  - (a) comply with all requirements and permit conditions,
  - (b) maintain a valid permit so long as the regulated organisms are alive,
  - (c) this permit cannot be assigned or transferred to other persons.
  - (d) permittee must maintain a residence in the United States
  - (e) safeguard and dispose of the regulated organisms during the term of this permit,
  - (f) take all necessary precautions to prevent the unauthorized release of regulated organisms. In the event of an unauthorized release, the permit holder must notify the permit unit,
  - (g) adequately mitigate environmental impacts resulting from unauthorized release of regulated organisms,
  - (h) contain any/all organisms not authorized under this permit,
  - (i) notify the permit unit of the receipt of unauthorized organisms,
  - (j) notify the permit unit if facilities are destroyed or decommissioned for any reason,
  - (k) maintain an official permanent work assignment at the address on this permit,
  - (l) notify the permit unit in advance of any change in the permit holder's work assignment,
  - (m) destroy all regulated organisms prior to departure unless other arrangements are confirmed by the permit unit prior to the permit holder's departure, and
  - (n) notify the permit unit of the destruction of regulated organisms.

Notifications to the permit unit must be made via 866-524-5421 or pest.permits@aphis.usda.gov within one business day of the event triggering a notification.

2. This permit does not authorize movement or use of plant pathogens listed in the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. If any organism listed as a Select Agent is identified from materials associated with this research, the permit holder is required to notify APHIS, Agricultural Select Agent Program (ASAP) immediately by phone at 301-851-3300, and within seven (7) days submit APHIS/CDC Form 4 (Report of Identification of a Select Agent or Toxin in a Clinical or Diagnostic Laboratory) to APHIS, ASAP; 4700 River Rd, Unit 2, Riverdale, MD 20737 (see instructions at: [https://www.aphis.usda.gov/wps/portal/aphis/ourfocus/animalhealth/sa\\_import\\_into\\_us/sa\\_ag\\_select\\_agent/ct\\_ag\\_bioterr\\_toxinlist/](https://www.aphis.usda.gov/wps/portal/aphis/ourfocus/animalhealth/sa_import_into_us/sa_ag_select_agent/ct_ag_bioterr_toxinlist/)). Failure to comply with this requirement is a violation of the Agricultural Bioterrorism Protection Act of 2002.
3. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated organisms authorized under this permit.
4. All organisms and/or infected plant material must be shipped in packages of such materials and/or construction (culture plates) so as to prevent the unauthorized dissemination or release of regulated articles.
5. Upon receipt, all packages must be opened within a laminar flow biosafety cabinet, that meets or exceeds Class II, Type A, in or associated with the permit holder's assigned laboratory facilities within CF# 2980 to ensure the shipment contains only permitted organisms and is free of contaminants. Cultures must be in sealed containers during transport to or within the permit holder's assigned laboratory facilities.
6. All packing materials in contact with plant pests or contaminants and all leftover organisms, plant material, soil, etc., must be sufficiently heat or chemically treated to kill, denature, or destroy all plant pests prior to disposal.
7. All waste water, soil and debris from laboratory procedures must be collected and sufficiently treated by heat or chemical means to kill or destroy all nematode life stages prior to disposal.

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8. Nematodes and any debris must be handled appropriately (e.g. wear adequate protective clothing, practice adequate hand and shoe sanitation, disinfect all work surfaces after use) so that movement of plant pests out of the facility does not occur. Used disposable items must be collected when leaving the work area. Used disposable items must be sufficiently treated to kill all nematode life stages prior to disposal.
9. Plant inoculations are not authorized under this permit.
10. Organisms must be maintained or stored in the permit holder's research facilities within CF#2980. All stored organisms must be kept in a locked area with access restricted to authorized personnel.
11. A separate authorization from USDA APHIS ( a new PPQ 526 permit) is required for the possession/ maintenance of live regulated organisms received under this permit beyond the expiration of this permit. Otherwise, all regulated organisms received under this permit must be devitalized prior to the expiration of this permit.
12. At the conclusion of experiments all organisms must be treated by heat or chemical means sufficient to kill or destroy all plant pest life stages prior to disposal. All laboratory equipment and supplies must be decontaminated prior to reuse or disposal.
13. If Autoclaving Waste
  - a. Waste must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes.
  - b. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
  - c. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
  - d. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, users must contact the person responsible for maintaining the unit to initiate repairs. Waste must then be treated at the alternate autoclave facility.
  - e. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. Calibration must be done by an authorized autoclave service company during routine servicing.
  - f. Every 6 months, you must use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampoules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampoules are incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.
14. The permit holder or authorized individual must notify APHIS Plant Protection and Quarantine (PPQ) Pests, Pathogens, and Biocontrol Permits Branch (PPBP) within 10 working days of the confirmation that an organism is identified as (a) a species new to science, (b) an organism not known to occur in the United States, or (c) a pest managed by an APHIS program (program pest; [http://www.aphis.usda.gov/plant\\_health/plant\\_pest\\_info/index.shtml](http://www.aphis.usda.gov/plant_health/plant_pest_info/index.shtml)). Include the permit number, the origins and dates of receipt of the samples, and the identified organism. The notification must be sent to USDA/APHIS/PPQ/PPBP, 4700 River Rd., Unit 133, Riverdale, MD 20737, faxed to 301-734-8700 or emailed to [Pest.Permits@aphis.usda.gov](mailto:Pest.Permits@aphis.usda.gov) Attn: Carl Schulze, as Word, Excel or pdf documents. Notifications must also be sent to the State Plant Health Director (SPHD) and State Plant Regulatory Official (SPRO) of the state of origin of the specific sample within 10 working days (see [http://www.aphis.usda.gov/services/report\\_pest\\_disease/report\\_pest\\_disease.shtml](http://www.aphis.usda.gov/services/report_pest_disease/report_pest_disease.shtml) and <http://www.nationalplantboard.org/member/index.html> for contact information).
15. There is to be no further movement or distribution of organisms without prior approval from State and Federal regulatory officials.
16. Under the Plant Protection Act, individuals or corporations who fail to comply with these conditions and authorizations, or who forge, counterfeit, or deface permits or shipping labels may receive civil or criminal penalties, and may have all current permits cancelled and future permit applications denied.

**END OF PERMIT CONDITIONS**

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