

4355

08/07/2012

Agricultural Research Service
Agreements Information Management System
Statement of Work

Agreement No. 58-1931-2-1111N

Amendment No. 00

Cooperator: UNIVERSITY OF THE REPUBLIC

Control No. 30225

OBJECTIVE:

The objective of this project is to determine the postharvest biocontrol potential and other biological activities of yeasts isolated from Antarctica.

APPROACH:

Microbes will be isolated from soil and vegetation samples in the vicinity of the Uruguayan research station located on King George's Island, Antarctica. Emphasis will be placed on obtaining yeast species using selective media. DNA obtained from isolated pure cultures will be sent to the USDA-ARS, Kearneysville, WV, who will perform genetic sequencing of ribosomal genes in order to assist in the taxonomic identification of the microbial isolates. Evaluation of selected strains for their potential as postharvest biocontrol agents will be conducted on apple and citrus by the University of the Republic, Montevideo, Uruguay. USDA-ARS will receive the yeast isolates and extract extracellular and cell wall materials, and determine if they have protective and biostimulant properties. The University of the Republic will conduct in-depth assessments of "elite" antagonists identified during the preliminary evaluations and conduct mode-of-action studies. USDA-ARS will provide guidance in the design of these experiments and the interpretation of the results.

STATEMENT OF MUTUAL INTEREST:

Both Parties of this Agreement are involved with independent research on yeast as biocontrol agents and biological properties of compounds produced by yeast cells. The Parties agree that meeting the objectives of this project will serve to strengthen and enhance the research programs of both entities by furthering the understanding of the properties that make yeast species effective biocontrol agents for the management of postharvest diseases of fruit. It is the intention of the Parties that the research work shall affirm their mutual interest in cooperative research programs and exchanges, and shall be for their mutual benefit and the benefit of the people of the United States and the Republic of Uruguay. This NFCA supports research conducted under National Program 303 - Plant Diseases.

THE COOPERATOR AGREES TO:

1. Work with USDA-ARS in planning and conducting the research outlined herein.
2. Collect isolates of yeast from the Uruguayan research station located at King George's Island, Antarctica.
3. Develop pure cultures and isolate DNA, and send it to the USDA-ARS, Kearneysville, WV, for ribosomal DNA sequencing along with pure cultures of the isolates.
4. Screen the yeast isolates for postharvest biocontrol activity in apple and citrus.
5. Conduct in-depth biocontrol studies on "elite" isolates identified in the preliminary screen.
6. Work closely with USDA-ARS to prepare findings for publication in peer-reviewed journals and presentations at meetings and/or on modality groups.
7. Provide a brief summary report no later than June 1st of each year addressing the following:
 - a. A comparison of actual accomplishments with the goals and objectives established for the period and the findings of the investigators.
 - b. Reasons why established goals were not met, if appropriate.
 - c. Other pertinent information.
8. A final performance report shall be due from the Cooperator's Principal Investigator 90 calendar days following the expiration, completion or termination of the Agreement.
9. Submit copies of all publications resulting from the research conducted under this cooperative agreement to the ARS ADODR. The publications will be entered into the USDA-ARS publication database for cooperative agreement research accountability purposes and to facilitate data distribution and sharing via the world-wide web. The publication information entered into the USDA-ARS publication database will be accessible to the public through the ARS web site(s), including the

644. 10160-002123-12

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name of the Cooperator's Principal Investigator and affiliation.

10. Text Messaging:

Executive Order 13513 establishes a Federal Government-wide prohibition on text messaging while driving on official business or when using Government supplied equipment. Any person authorized to operate a Government owned or leased vehicle or use Government supplied equipment under an agreement issued on or after October 1, 2009, shall not engage in text messaging when driving a Government-owned or leased (GSA or commercially leased), or a privately-owned vehicle (POV) while on official Government business, or when using electronic equipment supplied by the Government while driving.

REE strongly encourages all contractors, grantees, cooperators, subcontractors, grant recipients, and sub recipients to adopt and enforce similar internal policies which ban text messaging and also to consider new rules and programs, and to re-evaluate existing programs to prohibit text messaging while driving, and conduct education, awareness, and other outreach to their employees about the safety risks associated with texting while driving.

ARS AGREES TO:

1. Work with the Cooperator in planning and conducting the research outlined herein.
2. Conduct genetic sequencing of ribosomal genes of the Antarctic yeasts to be used to assist with the taxonomic identification of the isolates.
3. Extract cell wall and extracellular materials from the yeasts and determine if they have cryoprotective and/or biostimulant (growth promoting) properties.
4. Provide advice on the testing of the "elite" isolates in relation to their mode of action.
5. Make personnel, specialized equipment, and working space available to the project as required and mutually agreed upon. All such equipment will remain the property of USDA-ARS subject to its disposition.
6. Work closely with the Cooperator to prepare findings for publication in peer-reviewed journals and presentations at meetings and/or commodity groups.
7. The ARS ADODR shall obtain copies of all publications resulting from the research conducted under this cooperative agreement from the Cooperator's Principal Investigator to facilitate data distribution and sharing via the world-wide web.
 - a. The publications will be entered into the USDA-ARS publication database (ARIS system) for research accountability purposes for the subject cooperative agreement and will be applied to the USDA-ARS Project and Accession Number assigned to this cooperative agreement. The publication(s) will be withheld from the USDA-ARS web site until the actual publication date.
 - b. The USDA-ARS ADODR will assure the publication information is complete, including the Title, Authors and Affiliations, Journal or Equivalent name, Publication Date and Citation information (including applicable Volume and Page numbers, DOI (Digital Object Identifier) information, and journal URL and/or Reprint URL addresses).

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MUTUAL AGREEMENTS:

The agreement budget Form REE-454, is hereby incorporated into the agreement. The awarding agency will reimburse the cooperator for the costs as budgeted, in the amount of \$0.00 and will contribute in-house resources in the amount of \$0.00. As evidence of the Cooperator's contribution to this project, the Cooperator will provide in-house resources in the amount of \$0.00.

1. See applicable Provisions on the website
<http://www.afm.ars.usda.gov/agreements/partnership.htm>.
2. Correspondence and documentation submitted by the Cooperator to the ADODR in reference to this agreement shall cite Agreement No. 58-1931-2-111FN.
3. Copies of all correspondence should be forwarded to the ADO at:

WILLIAM A. REE, ARS, AFM, EAD
5101 SUNNYSIDE AVE, MS 5110
BELTSVILLE, MD 20705

United States Department of Agriculture
Extramural Agreement

Budget Object Class Code: 4521PU

Title of Project

BIOLOGICAL PROPERTIES OF ANTARCTIC YEASTS

Type of Research Agreement

NON FUNDED COOPERATIVE AGREEMENT

Control No
30225

Agreement Number

58 1931-2 111FN

Type of Action

New

Accession No
423271

Period of Agreement

09/15/2012

thru 09/30/2014

Project Number

1931-22000-009-03N

Authority

7 U.S.C. 3291

Agreement Total

\$0.00

Change in Agreement Total

\$0

Accounting Distribution

(Accounting Code / Amount)

Agency (Name and Address)

USDA REE AFIS AFLE EAD
5601 SUNNYSIDE AVE MS 5110
Room 3-2170
BELTSVILLE MD 20705

Authorized Departmental Officer's Designated Representative

(Name and Address)
MICHAEL E WERNIEWSKI
USDA ARS NARS APPALACHIAN FRUIT RESEARCH STA
2217 WILTSHIRE ROAD
KEARNEYSVILLE WV 25430

Cooperator/Recipient/Sponsor (Name and Address)

UNIVERSITY OF THE REPUBLIC
MONTEVIDEO
URUGUAY

Finance Office (Complete Mailing Address)

Designated Representative (Name and Address) for the above:
SILVANA VERO
DEPT OF MICROBIOLOGY FACULTY OF CHEMISTRY
UNIV OF THE REPUBLIC, GRAL FLORES 2124 C.P. 11800
MONTEVIDEO

This Agreement includes the following:

- Statement of Work
- Propose
- Sponsor's Proposal
- Budget Form (REE454)
- Budget Form (REE455)

Applicable Provisions

Payment

- HHS/Payment Management System
- EFT/Treasury Check
- ARS Receives Funds
- Advance Payment Authorized
- Pre-Award Costs Authorized

Applicable Provisions Available at <http://www.afm.ars.usda.gov/agreements/partnership.htm>

- Non Assistance Coop. Agreement (7 CFR Part 550) Reporting Requirements (submit) ADODR Sponsoring Organization ADO
- Research Support Agreement (REE-452R) Submit Performance Reports Financial Reports Management Reports (RSA Only)
- TFCA and RCAs (7 CFR Part 550 and REE-22) Quarterly Quarterly Monthly
- Grants and AFCA (REE-453) Semi-Annual Semi-Annual Quarterly
- Non Funded Coop. Agreement (7 CFR Part 550 and REE-29) Annual Annual Semi-Annual
- Financial Assistance Use of Universal Identifier (DUNS) and CCR Final Final Final
- 1/5 FR 55671-55676) Final Final Final
- SubAward Requirements for FFAIA Implementation (75 FR 55663-55671)

Other I Specify

- AD-104 - Certification Regarding Debarment, Suspension and other Responsibility Matters - Primary Covered Transactions Report of Inventions and Subcontracts via iEdison Web interface at <http://www.iEdison.gov>
 - AD-104 - Certification Regarding Drug-Free Workplace Requirements - Non-Individuals
 - AD-104 - Certification Regarding Drug-Free Workplace Requirements - Individuals
 - USDA Civil Rights Poster (AD-475)
 - USDA Civil Rights Policy Statement (<http://www.afm.ars.usda.gov/agreements/partnerships.htm>)
 - REE-26 - Certification Regarding Performing Organization Type
 - Certification Regarding Lobbying - Contracts, Grants, Loans and Cooperative Agreements
 - Attachment A - RSA Monthly Management Reporting Template
- Comments (see page 2)

For the United States Department of Agriculture

Authorized Departmental Officer

Deborah L. Watson

Type Name

DEBORAH L WATSON

Date

6/21/12

For the Performing/Sponsoring Organization

(Signature of persons authorized to incur contractual obligations)

Signature

[Signature]

Type Name and Title

RODRIGO AROCENA
RECTOR

Date

Signature

Type Name and Title

Date

