

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	1R21AI083852-01	066470972	2010 / 4	No

Award Recipient Information

Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219031	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.G6.M8.OH.VW	Recipient ZIP Code + 4 368490001
Recipient Legal Name AUBURN UNIVERSITY	Recipient Country USA
Recipient DBA Name	

Project / Award Information

Funding Agency Code 7529	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 7529	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 75-0900	Total Number of Sub Awards to 0 Individuals
Sub Account Number for Program Source	Total Amount of Sub Awards to 0.00 Individuals
CFDA Number 93.701	Total Number of Payments to 175 Vendors less than \$25,000/award
Amount of Award 410905.00	Total Amount of Payments to 67654.12 Vendors less than \$25,000/award
Award Date 05/29/2009	
Award Description The purpose of this project is to identify new antibiotics that can be used to treat infections by bacterial pathogens. Most antibiotics are derived from microbial species in pure cultures, but since a small proportion of microorganisms have been cultured in a laboratory there is a need to use methods such as microbial community genomics (?metagenomics?) to attain new antibiotics from natural environments. In metagenomics, the genomic analysis is applied to entire microbial communities. This project will allow the characterization of antibiotics discovered through screening metagenomic libraries, to identify those antibiotics that are best able to kill bacterial pathogens. Furthermore, this project will develop new methods (i.e., a cloning vector that can be used in different	

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bacterial hosts) that will increase the frequency of discovering new antibiotics or other drugs that can be identified from metagenomic libraries and be developed for human therapeutic application.

Project Information

Project Name or Project/ Program Title	Quarterly Activities/ Project Description	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Evaluation of Novel Antimicrobial Agents and a Novel Shuttle Vector	Each metagenomic clone was sequenced & annotated, being submitted to GenBank public database. Seven isolates (and more from new library) have shown consistent activity against MRSA strains derived from local clinical patients. LC/MS completed for some isolates that have anti-MRSA activity. Future work will continue progress on structural determination on anti-MRSA . Determining the optimal growth and extraction conditions for antibiotic activities. Subcloning of some PKS pathways has been completed. Testing subclones for activity of the subcloned PKS domains will continue at Georgia State University. A new soil metagenomic library (with 100kb inserts) has been constructed, and is being screened for clones expressing antibiotic activity against MRSA. Published articles in Gene and Soil Biology & Biochemistry.	Activity Code 1 B43 - NTEE Activity Code 2 Activity Code 3 Activity Code 4 Activity Code 5 Activity Code 6 Activity Code 7 Activity Code 8 Activity Code 9 Activity Code 10

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Submitted to FEMS
Microbiology Ecology.

Project Status Completed 50% or more
Total Federal Amount ARRA Funds Received/ Invoiced 258353.91
Number of Jobs 0.33
Description of Jobs Created Graduate Research Assistants
Total Federal Amount of ARRA Expenditure 265710.57
Total Federal ARRA Infrastructure Expenditure 0.00
Infrastructure Purpose and Rationale

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Infrastructure Contact

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

Primary Place of Performance

Address 1	Department of Biological Sciences
Address 2	107 Rouse Life Sciences Building
City	Auburn University
Country Code	US
State	AL
ZIP Code + 4	36849 - 0001
Congressional District	02

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

Created By	Cindy Selman
Date Created	01/02/2011 02:57 PM
Last Updated By	Cindy Selman
Last Updated On	01/06/2011 03:16 PM

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Sub Recipient Information

Sub Recipient DUNS Number	837322494	Sub Recipient Address 1	30 COURTLAND ST STE G 74
Sub Recipient Congressional District	05	Sub Recipient Address 2	
Sub Recipient Type	A8.BZ.VW	Sub Recipient City	ATLANTA
Sub Recipient Legal Name	GEORGIA STATE UNIVERSITY RESEARCH FOUNDATION, INC.	Sub Recipient State	GA
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	303031213
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number 09-BS-219031-GSU
Amount of Sub Award 86625.00
Total Sub Award Funds Disbursed 36070.50
Sub Award Date 07/29/2009

Sub Recipient Place of Performance

Address 1 30 Courtland Street
Address 2
City Atlanta
Country Code US
State GA
ZIP Code + 4 30302 - 3999
Congressional District 05

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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