

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	1R21AI083852-01	066470972	2010 / 2	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.95.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 Individuals 0
Sub Account Number for Program Source	Total Amount of Sub Awards to Individuals 0.00
CFDA Number 93.701	Total Number of Payments to Vendors less than \$25,000/award 168
Amount of Award 410905.00	Total Amount of Payments to Vendors less than \$25,000/award 63462.19
Award Date 05/29/2009	
Award Description The focus of this ARRA funding is characterizing 1) antibiotic-producing genetic pathways discovered from soil microorganisms, and 2) novel genetic pathways of a specific type (polyketide synthases) that are known to be involved in the synthesis of different antibiotics and anticancer compounds, and 3) a new shuttle vector that can help enhance the production of antibiotic compounds by enabling synthesis in different bacterial species.	

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Project Information

Project Name or Project/ Program Title	Activity Codes (NAICS or NTEE-NPC) (up to 10)
<p>Quarterly Activities/ Project Description</p> <p>Evaluation of Novel Antimicrobial Agents and a Novel Shuttle Vector</p> <p>1) Each recombinant clone has been sequenced and preliminary annotation is done.</p> <p>2) Samples sent to Natural Product Institute (Ole Miss) for screening, several clones and cultured Bacillus spp. had activity, with 6 of the latter inhibiting MRSA.</p> <p>3) We are working on organic extractions of supernatants with antibiotic activity, in determining the optimal growth and extraction conditions. During the next quarter we expect some LC/MS results for promising antibiotic-producing clones</p> <p>4) Subcloning of some PKS pathways has been completed. Testing subclones for activity of the subcloned PKS domains is underway at Georgia State.</p> <p>5) Two new collaborations have developed to use cloning and expression vectors (with the Lucigen Corp., and with Prof. Svein Valla, Norway) to subclone antibiotic-producing clone biosynthetic pathways. Subcloning of antibiotic-producing pathways is underway.</p> <p>6) The shuttle BAC vector has been used to construct a soil metagenomic library and screening of the library has identified clones with antibacterial activity. Those clones are the subject of the subcloning activity in step #5 above.</p> <p>7) Transposon mutagenesis completed on all but 1 antibiotic-producing clone, and loss-of-function mutants have been identified & sequenced. Hyper-active mutants generated using an inducible</p>	<p>Activity Code 1 B43 - NTEE</p> <p>Activity Code 2</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>

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promoter transposon system
are also sought.

Project Status Completed 50% or more

**Total Federal Amount ARRA
Funds Received/ Invoiced** 173673.82

Number of Jobs 0.89

Description of Jobs Created Graduate Research Assistant
and Faculty

**Total Federal Amount of ARRA
Expenditure** 193945.85

Total Federal ARRA 0.00

Infrastructure Expenditure

**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	07/01/2010 12:01 PM
Last Updated By	Cindy Selman
Last Updated On	07/20/2010 09:09 AM

Report Information

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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	95.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 19089.45
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	

Report Audit Trail

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