

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

Award Recipient Information	
<b>Recipient DUNS Number</b> 066470972	<b>Recipient Address 1</b> 107 SAMFORD HALL
<b>Recipient Account Number</b> 219031	<b>Recipient Address 2</b>
<b>Recipient Congressional District</b> 02	<b>Recipient City</b> AUBURN
<b>Parent DUNS Number</b> 066470972	<b>Recipient State</b> AL
<b>Recipient Type</b> 2U.95.G6.M8.OH.VW	<b>Recipient ZIP Code + 4</b> 368490001
<b>Recipient Legal Name</b> AUBURN UNIVERSITY	<b>Recipient Country</b> USA
<b>Recipient DBA Name</b>	

Project / Award Information	
<b>Funding Agency Code</b> 7529	<b>Total Number of Sub Awards less than \$25,000/award</b> 0
<b>Awarding Agency Code</b> 7529	<b>Total Amount Sub Awards less than \$25,000/award</b> 0.00
<b>Program Source (TAS) Code</b> 75-0900	<b>Total Number of Sub Awards to Individuals</b> 0
<b>Sub Account Number for Program Source</b>	<b>Total Amount of Sub Awards to Individuals</b> 0.00
<b>CFDA Number</b> 93.701	<b>Total Number of Payments to Vendors less than \$25,000/award</b> 75
<b>Amount of Award</b> 230058.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b> 42555.47
<b>Award Date</b> 05/29/2009	
<b>Award Description</b> 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	Quarterly Activities/ Project Description	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Evaluation of Novel Antimicrobial Agents and a Novel Shuttle Vector	<p>1) Each of the recombinant clones has been sequenced to completion using pyrosequencing, and a preliminary annotation of each clones is completed</p> <p>2) We are working on organic extractions of clone supernatants containing 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>3) Subcloning of some PKS pathways has been completed. Testing subclones for activity of the subcloned PKS domains will be done in the next quarter.</p> <p>4) 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. In the next quarter subcloning of antibiotic-producing pathways is expected to be completed in both vector systems.</p> <p>5) 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 #4 above.</p> <p>6) In this quarter a bioinformatics pipeline has been built, by purchase and training on a LINUX system with software (e.g., MIRA, others) to perform sequence assembly, annotation, and analysis of the cloned biosynthetic pathways.</p>	<p><b>Activity Code 1</b> B43 - NTEE</p> <p><b>Activity Code 2</b></p> <p><b>Activity Code 3</b></p> <p><b>Activity Code 4</b></p> <p><b>Activity Code 5</b></p> <p><b>Activity Code 6</b></p> <p><b>Activity Code 7</b></p> <p><b>Activity Code 8</b></p> <p><b>Activity Code 9</b></p> <p><b>Activity Code 10</b></p>

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<b>Project Status</b> Less than 50% completed	
<b>Total Federal Amount ARRA</b>	129301.93
<b>Funds Received/ Invoiced</b>	
<b>Number of Jobs</b>	1.00
<b>Description of Jobs Created</b>	Graduate Research Assistants
<b>Total Federal Amount of ARRA</b>	135898.16
<b>Expenditure</b>	
<b>Total Federal ARRA</b>	0.00
<b>Infrastructure Expenditure</b>	
<b>Infrastructure Purpose and Rationale</b>	

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**Infrastructure Contact**

<b>Name</b>	<b>Street Address 1</b>
<b>Email</b>	<b>Street Address 2</b>
<b>Phone</b>	<b>Street Address 3</b>
<b>Ext</b>	<b>City</b>
	<b>State</b>
	<b>ZIP Code + 4</b>

**Primary Place of Performance**

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

**Recipient Highly Compensated Officers**

<b>Prime Recipient Indication of Reporting Applicability</b>	No	<b>Officer 3 Name</b>	
<b>Officer 1 Name</b>		<b>Officer 3 Compensation</b>	
<b>Officer 1 Compensation</b>		<b>Officer 4 Name</b>	
<b>Officer 2 Name</b>		<b>Officer 4 Compensation</b>	
<b>Officer 2 Compensation</b>		<b>Officer 5 Name</b>	
		<b>Officer 5 Compensation</b>	

**Report Audit Trail**

<b>Created By</b>	Cindy Selman
<b>Date Created</b>	04/02/2010 12:28 PM
<b>Last Updated By</b>	Cindy Selman
<b>Last Updated On</b>	04/06/2010 04:40 PM

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**Sub Recipient Information**

<b>Sub Recipient DUNS Number</b>	837322494	<b>Sub Recipient Address 1</b>	30 COURTLAND ST STE G 74
<b>Sub Recipient Congressional District</b>	05	<b>Sub Recipient Address 2</b>	
<b>Sub Recipient Type</b>	95.A8.BZ.VW	<b>Sub Recipient City</b>	ATLANTA
<b>Sub Recipient Legal Name</b>	GEORGIA STATE UNIVERSITY RESEARCH FOUNDATION, INC.	<b>Sub Recipient State</b>	GA
<b>Sub Recipient DBA Name</b>		<b>Sub Recipient ZIP Code + 4</b>	303031213
		<b>Sub Recipient Country</b>	USA

**Sub Award Information**

**Sub Award Number** 09-BS-219031-GSU  
**Amount of Sub Award** 42590.00  
**Total Sub Award Funds Disbursed** 0.00  
**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**

<b>Prime Recipient Indication of Reporting Applicability</b>	No	<b>Officer 3 Name</b>	
<b>Officer 1 Name</b>		<b>Officer 3 Compensation</b>	
<b>Officer 1 Compensation</b>		<b>Officer 4 Name</b>	
<b>Officer 2 Name</b>		<b>Officer 4 Compensation</b>	
<b>Officer 2 Compensation</b>		<b>Officer 5 Name</b>	
		<b>Officer 5 Compensation</b>	

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