

Report Information				
Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	1R21AI076893-01A1	066470972	2010 / 1	No

Award Recipient Information	
Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 381030	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 38
Amount of Award 401500.00	Total Amount of Payments to Vendors less than \$25,000/award 17955.27
Award Date 05/06/2009	
Award Description The overall purpose is to determine the potential roles of the up-regulated genes in insecticide resistance in mosquitoes. We expect that comparison of 1) levels of resistance and the levels of gene expression and 2) the levels of silenced gene expression in resistant mosquitoes and their corresponding levels of resistance will allow us to identify the genes involved in insecticide resistance. Yr. 2 funding of \$255,500 awarded and added to award amount.	

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Project Information

<p>Project Name or Project/ Program Title</p> <p>Quarterly Activities/ Project Description</p>	<p>Characterizing the role of the 22 up-regulated genes in mosquito resistance</p> <p>We have performed specific Aim 1 during the current budget year: Define the relationship between the levels of resistance and the levels of gene expression, enzyme activity, and protein expression in each of the 22 up-regulated genes in the susceptible strains of S-Lab and Ref-S-Lab; the field permethrin resistant strains of HAmCqG0, MAmCqG0, and BAmCqG0; 8 generations of permethrin-selected HAmCqG0 offspring (HAmCqG1 to HAmCqG8); and the 8th generation of the permethrin-selected S-Lab strain (S-Lab-PerG8).</p> <p>Total RNAs and mRNAs have been isolated from 4th instar larvae and adults of each of 14 mosquito strains (susceptible S-Lab, susceptible reference Ref-S-Lab, S-Lab-PerG8, HAmCqG0, MAmCqG0, BAmCqG0, and HAmCqG1 to HAmCqG8) for each of 3 replicates. The expression of each of 22 genes has been quantified used for RT-qPCR and northern blot analysis. Data have been analyzed. Some of the data will be presented in the coming 2009 ESA Annual Meeting.</p>	<p>Activity Codes (NAICS or NTEE-NPC) (up to 10)</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>
<p>Project Status Completed 50% or more</p>		
<p>Total Federal Amount ARRA Funds Received/ Invoiced 72873.79</p>		
<p>Number of Jobs 0.50</p>		
<p>Description of Jobs Created Faculty</p>		
<p>Total Federal Amount of ARRA Expenditure 91602.43</p>		
<p>Total Federal ARRA Infrastructure Expenditure 0.00</p>		

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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	301 Funchess Hall
Address 2	
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
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