

**Report Information**

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	3R15ES015886-01A2S1	066470972	2010 / 4	No

**Award Recipient Information**

<b>Recipient DUNS Number</b> 066470972	<b>Recipient Address 1</b> 107 SAMFORD HALL
<b>Recipient Account Number</b> 219059	<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.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> 75-0863	<b>Total Number of Sub Awards to 0 Individuals</b>
<b>Sub Account Number for Program Source</b>	<b>Total Amount of Sub Awards to 0.00 Individuals</b>
<b>CFDA Number</b> 93.701	<b>Total Number of Payments to 5 Vendors less than \$25,000/award</b>
<b>Amount of Award</b> 15476.00	<b>Total Amount of Payments to 1000.00 Vendors less than \$25,000/award</b>
<b>Award Date</b> 06/17/2010	
<b>Award Description</b> There is increasing use of soy products in the diet of the population and especially as non dairy sources of protein and in individuals with milk allergy. However, soy beans contain compounds called phytochemicals, which have the capacity to act in the same manner as the female hormone estrogen. The male sex is very sensitive to the biological effects of agents acting as the female hormone in the body. Thus, this project is designed to determine whether consumption of soy diets affect testis function	

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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)
Xenoestrogen regulation of Leydig cells	<p>Pregnant female rats were fed soy diets contain the isoflavones genistin, daidzin, or whole soy meal during the time that they were nursing their pups, i.e., up to three weeks from birth. The control diet consisted of casein while the soybean meal contained approximately twice the levels of soy isoflavones as was present in the genistein or daidzin diet. Male pups were maintained on soy-free diets after weaning and until they were sacrificed. Testis function was investigated at different stages of development at 21, 35 and 90 days of age. Exposure of neonatal male rats to soy in maternal diet affected development of the testis. Specifically, exposure to dietary soy interfered with the capacity of Leydig cells to undergo cell division and to secrete the sex steroid hormone testosterone. Testosterone is the hormone that supports male fertility. The changes were most apparent in male rats exposed to the whole soy meal diet compared to the genistin or daidzin diet groups probably related to the higher levels of soy isoflavones in the soy meal diet. Thus, the biological effects associated with consumption of soy diets seem to be directly related to the dose-additive effects of isoflavones present in the diet</p>	<p><b>Activity Code 1</b> B43 - NTEE  <b>Activity Code 2</b>  <b>Activity Code 3</b>  <b>Activity Code 4</b>  <b>Activity Code 5</b>  <b>Activity Code 6</b>  <b>Activity Code 7</b>  <b>Activity Code 8</b>  <b>Activity Code 9</b>  <b>Activity Code 10</b></p>

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<b>Project Status</b>	Completed 50% or more
<b>Total Federal Amount ARRA</b>	9420.38
<b>Funds Received/ Invoiced</b>	
<b>Number of Jobs</b>	0.07
<b>Description of Jobs Created</b>	Undergraduate students
<b>Total Federal Amount of ARRA</b>	9420.38
<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**

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

**Primary Place of Performance**

<b>Address 1</b>	College of Veterinary Medicine
<b>Address 2</b>	109 Greene Hall
<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>	01/02/2011 03:00 PM
<b>Last Updated By</b>	Cindy Selman
<b>Last Updated On</b>	01/06/2011 11:16 AM