

**Report Information**

Award Type	Award Number	Prime DUNS	Calendar Yr/Qtr	Final Report
Grant	3R15ES015886-01A2S1	066470972	2011 / 3	Yes

**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>Testicular Leydig cell function was assessed in male offspring at different stages of development. Exposures to isoflavones early in development interfered with Leydig cell division and acquisition of steroidogenic capacity, which affected androgen levels in the adult testis. For example, testicular testosterone levels were similar to or greater than in control animals after exposure to soy isoflavones and the industrial chemical bisphenol A, which were, paradoxically, associated with deficits in androgen biosynthesis per unit Leydig cell. Thus, adult testis function is impacted by exposures to xenoestrogens occurring early in development, possibly disrupting testicular and serum testosterone levels in a dose- and time-dependent manner. Disturbances in androgen secretion have implication for male reproductive health. For example, androgen insufficiency in the prepubertal period has been linked to abnormal development of the male urogenital tract (e.g., hypospadias and cryptorchidism). In contrast, enhanced testicular and serum testosterone concentrations may accelerate pubertal development and/or increase the risk for germ cell tumors. We have performed assays to measure paracrine regulators secreted by Sertoli cells, which affect other testicular cells, including Leydig cells such as Mullerian Inhibiting Substance (MIS) and the stem cell factor (SCF). Receptors for these paracrine regulators are</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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expressed in Leydig cells.  
Thus, changes in MIS and SCF  
secretion by Sertoli cells have  
implication for Leydig cells  
function.

**Project Status** Fully Completed  
**Total Federal Amount ARRA  
Funds Received/ Invoiced** 14702.89  
**Number of Jobs** 0.00  
**Description of Jobs Created** No jobs to report this quarter  
**Total Federal Amount of ARRA  
Expenditure** 14702.89  
**Total Federal ARRA  
Infrastructure Expenditure** 0.00  
**Infrastructure Purpose and  
Rationale**

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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>	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>	10/02/2011 10:34 PM
<b>Last Updated By</b>	Cindy Selman
<b>Last Updated On</b>	10/10/2011 11:54 AM