

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	3R15ES015886-01A2S1	066470972	2011 / 2	No

Award Recipient Information

Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219059	Recipient Address 2
Recipient Congressional District 02	Recipient City AUBURN
Parent DUNS Number 066470972	Recipient State AL
Recipient Type 2U.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 75-0863	Total Number of Sub Awards to 0 Individuals
Sub Account Number for Program Source	Total Amount of Sub Awards to 0.00 Individuals
CFDA Number 93.701	Total Number of Payments to 5 Vendors less than \$25,000/award
Amount of Award 15476.00	Total Amount of Payments to 1000.00 Vendors less than \$25,000/award
Award Date 06/17/2010	
Award Description 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	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>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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expressed in Leydig cells.
Thus, changes in MIS and SCF
secretion by Sertoli cells have
implication for Leydig cells
function.

Project Status Completed 50% or more
**Total Federal Amount ARRA
Funds Received/ Invoiced** 13658.99
Number of Jobs 0.45
Description of Jobs Created Undergraduate students
**Total Federal Amount of ARRA
Expenditure** 15476.00
**Total Federal ARRA
Infrastructure Expenditure** 0.00
**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	College of Veterinary Medicine
Address 2	109 Greene Hall
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	07/07/2011 02:08 PM
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