

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	0934860	066470972	2010 / 1	No

Award Recipient Information

Recipient DUNS Number 066470972	Recipient Address 1 107 SAMFORD HALL
Recipient Account Number 219045	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 4900	Total Number of Sub Awards less than \$25,000/award 0
Awarding Agency Code 4900	Total Amount Sub Awards less than \$25,000/award 0.00
Program Source (TAS) Code 49-0101	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 47.082	Total Number of Payments to Vendors less than \$25,000/award 0
Amount of Award 287553.00	Total Amount of Payments to Vendors less than \$25,000/award 0.00
Award Date 08/20/2009	
Award Description The project addresses, from a new standpoint, a lack of high-speed, super-resolution optical microscopy capable of imaging fast events in living cells. It introduces discrete multi-spot illumination which is used instead of continuous structured illumination. This replaces Fourier transform-based image reconstruction, a computationally complex procedure that involved distortions, by a simple local procedure in real space. Additional expected advantages are an increase of the illumination contrast and reduction of out-of-focus light, and thus higher super-resolution.	

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Project Information	
<p>Project Name or Project/ Program Title High-speed Super-Resolution Light Microscopy for 3D Imaging of Living Cells</p> <p>Quarterly Activities/ Project Description Statement of progress: Developed the principle and theory for super-resolution linear and nonlinear microscopy methods based on the discrete illumination patterns. Designed a novel illumination system to fluorescent microscope based on a fast computer controlled micro-mirror array.</p> <p>Plans for the next quarter:</p> <p>To establish the test patterns for reflection and fluorescent modes.</p> <p>To test experimentally the super-resolution capability.</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>
Project Status	Less than 50% completed
Total Federal Amount ARRA Funds Received/ Invoiced	0.00
Number of Jobs	0.00
Description of Jobs Created	None
Total Federal Amount of ARRA Expenditure	0.00
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	Department of Anatomy, Physiology and Pharmacology
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
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