

NanoBio Summit 2016

October 13-14, 2016, Auburn University, Student Center, Auburn, AL

THURSDAY, October 13, 2016		
<u>Time</u>	<u>Program</u>	<u>Location</u>
7:30 am-Noon	REGISTRATION (Pick-up Name badge and conference materials)	3 rd Floor Ballroom
7:30 am -9:00 am	Poster and Exhibitor Set-up	3rd Floor Ballroom
7:45 am -8:45 am	Continental Breakfast	3rd Floor Ballroom
9:00 am -9:30 am	Welcoming Remarks Dr. Robert Arnold , Chair Organizing Committee Dr. Jay Gogue , President Auburn University Dr. Frank Bartol , Alumni Professor & Associate Dean of Research and Graduate Studies, College of Veterinary Medicine, Auburn University	3rd Floor Ballroom
9:30 am -10:30 am	Plenary Talk I – Session Chair: Dr. Robert Arnold Dr. Daryl Drummond , Vice President Discovery, Merrimack, Cambridge MA. <i>“Engineering and Development of Antibody Directed Nanotherapeutics”</i>	3 rd Floor Ballroom
10:30 am -11:00 am	Refreshment Break & Exposition	3rd Floor Ballroom
Concurrent Contributed Talks Session I and II - 2nd Floor		
11:30 am-12:30 pm	Scientific Seminar Session I Location: 2nd Floor, Room 2222 Moderator: Dr. Xinyu Zhang	Scientific Seminar Session II Location: 2nd Floor, Room 2223 Moderator: Dr. Jay Ramapuram
	<p>Dr. Virginia A. Davis, Department of Chemical Engineering, Auburn University <i>Title: Nanotechnology and the liquid crystal renaissance</i></p> <p>Dr. Derrick Dean, Department of Materials Science and Engineering, University of Alabama at Birmingham <i>Title: Controlled patterning of nano-hydroxyapatite by dip-pen nanolithography</i></p> <p>Dr. Marcelo A. Kuroda, Department of Physics, Auburn University <i>Title: Piezoresistivity in thin films: A first principles study</i></p> <p>Dr. Tae-Sik Oh, Department of Chemical Engineering, Auburn University</p>	<p>Dr. Cibele V. Falkenberg, Department of Mechanical Engineering <i>Title: Mathematical model of actin cytoskeleton in kidney podocyte cell applied to glomerular disease</i></p> <p>Dr. Atul Chaudhari, Center for NanoBiotechnology Research, Alabama State University <i>Title: Functionalized carbon nanotubes: approach to balance between antimicrobial and toxicity phenomenon</i></p> <p>Dr. Deepa Bedi, Department of Biomedical Sciences, Tuskegee University <i>Title: Neuroligin-4X expression and significance in breast cancer</i></p> <p>Dr. Jean Maglorie Nguekam Feugang, Department of Animal and Dairy Sciences, Mississippi State University</p>

	<i>Title: In-situ grown metal nanocatalysts from oxide host lattices</i>	<i>Title: Nanotechnology approach to enhancing transgenic farm animal production</i>
12:30 pm – 1:45 pm	Lunch and Exposition	
	3rd Floor Ballroom	
	Concurrent Contributed Talks Session III and IV – 2nd Floor	
1:45 pm – 3:00 pm	Scientific Seminar Session III Location: 2nd Floor, Room 2222 Moderator: Dr. Cibe V. Falkenberg	Scientific Seminar Session IV Location: 2nd Floor, Room 2223 Moderator: Dr. Bruce Smith
	<p>Dr. Kyung-Ho Roh, Department of Chemical and Materials Engineering, University of Alabama at Huntsville <i>Title: Smart manipulation of nano biomaterials for immunoengineering</i></p> <p>Dr. David Nikles, Department of Chemistry, University of Alabama at Tuscaloosa <i>Title: Medusa particles: A magnetically triggered drug delivery system consisting of diblock copolymer brushes covalently linked to the surface of magnetic nanoparticles</i></p> <p>Dr. Xinyu Zhang, Department of Chemical Engineering, Auburn University <i>Title: Synthesis of nanomaterials/nanocomposites for bio-sensing and imaging applications</i></p>	<p>Dr. Clayton Yates, Department of Biology and Center for Cancer Research, Tuskegee University, <i>Title: Quadruple Negative Breast Cancers (QNBC) are more prevalent in African American women with an enriched immune signature</i></p> <p>Dr. Vitaly Vodyanoy, Department of Anatomy, Physiology and Pharmacology, Auburn University <i>Title: Engineered metal nanoparticles in the sub-nanomolar levels are lethal to cancer cells</i></p> <p>Dr. Nikhil Tyagi, Department of Oncologic Sciences, University of South Alabama Mitchell Cancer Institute <i>Title: Relative photoprotective efficacy of silver, zinc-oxide and titanium-dioxide nanoparticles against UVB radiation-induced skin carcinogenesis</i></p>
3:00 pm – 4:30 pm	Refreshments and hors D'oeuvres	
	3rd Floor Ballroom	
3:30 pm - 6:00 pm	Poster Presentation and Exposition (presenters at posters odd number 3:30-4:30 pm and even number 4:30-5:30 pm)	
	3rd Floor Ballroom	
6:00 pm	<u>Conference Banquet, Plenary Talk & Awards Ceremony</u>	
	3rd Floor Ballroom	
	<p>Plenary Talk II - Session Chair: Dr. Peter Panizzi</p> <p>Dr. Mark Smeltzer, Professor & Director of Center for Microbial Pathogenesis and Host Inflammatory Response, University of Arkansas, Medical Sciences, Little Rock, AR. <i>Title: Nanotechnology: A Tiny Solution to a Big Problem?</i></p> <p>Presentation of Graduate and Undergraduate Awards</p> <p>Dr. Melissa Baumann, Assistant Provost & Director Honors College Dr. Virginia A. Davis, Alumni Professor Dr. Vitaly Vodyanoy, Alumni Professor</p> <p>Acknowledgements</p> <p>Dr. Robert Arnold, Chair-Organizing Committee</p>	

FRIDAY: October 14, 2016 Student Center, 3rd Floor Ballroom, Auburn University		
7:00 am – 8:00 am	Registration	3 rd Floor Ballroom
7:00 am – 8:00 am	Continental Breakfast	3rd Floor Ballroom
8:00 am – 8:15 am	Opening Remarks Dr. Robert Arnold , Chair Organizing Committee Dr. Liu, Associate VP of Research, AU	3rd Floor Ballroom
8:15 am – 9:15 am	Plenary Talk III – Session Chair: Dr. Shreekumar Pillai Dr. Greg Thurber , Assistant Professor, Department of Chemical Engineering, University of Michigan, Ann Arbor, MI <i>“Molecular Engineering of Stabilized Alpha Helices and Antibody Drug Conjugates: Novel Experimental Approaches Guided by Drug Design Principles”</i>	3rd Floor Ballroom
9:15 am – 10:30 am	Refreshment Break	3rd Floor Ballroom
10:30 am – 12:15 pm	<p style="text-align: center;">Contributed Talks</p> <p style="text-align: center;"><u>Session V: Moderator - Dr. Maria L. Auad</u></p> Dr. Vinoy Thomas , University of Alabama at Birmingham, <i>“Development of gradient nano-biomaterials and interfaces for tissue engineering”</i> Dr. Kacee Sims , Avanti Polar Lipids, Inc., Alabaster, Al., <i>“More than lipids: Solutions for the entire product cycle from research to commercialization”</i> Dr. Jim Beach , CytoViva, Inc., Auburn, Al., <i>“Enhanced darkfield hyperspectral microscopy”</i> Dr. Clinton Hupple , iThera Medical, München, Germany, <i>“Tracking nanoparticles using multispectral optoacoustic tomography”</i>	3rd Floor Ballroom
12:15 pm – 1:40 pm	Lunch & Concluding Remarks	3rd Floor Ballroom