

2015 NanoBio Summit - Contributed Abstracts at the University of Alabama at Birmingham

Classification	Last Name	First Name	Abstract Title	College or Institution Affiliation
Graduate	Alexander	Grant	Prohealing Multifunctional Endothelium Nanomatrix Coated Stents	University of Alabama at Birmingham
Graduate	Alrbyawi	Hamad	Short -chain ceramides for enhanced Cytotoxicity of Liposome-encapsulated Doxorubicin toward Human Prostate Cancer cells (PC-3)	Harrison School of Pharmacy
Postdoc	Arora, PhD	Summit	Preclinical evaluation of chemopreventive efficacy of silver nanoparticles against ultraviolet radiation-induced skin carcinogenesis	University of South Alabama
Graduate	Ashmore	D'Andrea	The Antibacterial Effects of Zinc Oxide Nanoparticles Against Gram Negative and Gram Positive Bacteria	Alabama State University
Postdoc	Baganizi, PhD	Dieudonne R.	Functionalized Gold and Silver Nanoparticles inhibit Respiratory Syncytial Virus (RSV)	Alabama State University
Graduate	Bawage	Swapnil	Chitosan – PLGA Nanoparticles Inhibit Respiratory Syncytial Virus	Alabama State University
Graduate	Bedwell	Gregory	Selective biotemplated synthesis of TiO ₂ Inside a Protein cage	University of Alabama at Birmingham
Undergraduate	Benson	Kingsley	Wavelength Dependence on Nanoparticle Enhanced Laser Induced Breakdown Spectroscopy	Alabama State University
Undergraduate	Bethune	Brandi	Analysis of polymeric fibers Using AT R Fourier Transform Infrared Spectroscopy and Differential Scanning Calorimetry	Alabama State University
Undergraduate	Bridges	Joshua	Nano and Micro Scale Fabrication of Three-Dimensional Scaffolds for Orthopedic Application	University of Alabama at Birmingham
Graduate	Budhwani	Karim	Lab-On-a-Brane: A Novel Nanofluidics Biomimetic Platform for Pharmacokinetic Evaluation	University of Alabama at Birmingham
Graduate	Chanda	Arnab	Numerical Modeling of Skin Wound Closure with Interrupted Sutures	University of Alabama
Graduate	Chanda	Arnab	Human Skin-Like Biofidelic Sutures	University of Alabama
Postdoc	Chaudhari, PhD	Atul A.	Anti-bacterial effect of silver Coated carbon Nanotubes in Salmonella Typhimurium is Mediated by Down Regulation of Virulence	Alabama State University
Graduate	Chen	Jun	Biocompatible Shaped Particles from Dried Multilayer Polymer Capsules	University of Alabama at Birmingham
Undergraduate	Chen	Szu-Chun	Poly(N-vinylcaprolactam) based Multilayers for Drug Delivery with Temperature-gated Permeability	Illinois Institute of Technology
Graduate	Crenshaw	Brennetta	Efficacy of genipin against human prostate cancer cells	Alabama State University
Research Assistant	Dixit, PhD	Saurabh	Effective Targeting of Dendritic Cells by Poly (lactic acid)-b-Poly (Ethylene glycol) Encapsulated Outer Membrane Peptide of Chlamydia trachomatis for Enhanced Adaptive Immune Responses	Alabama State University
Graduate	Duncan	Skyla	Suppressor of Cytokine Signaling (SOCS) 1 and SOCS3 are Mediators of the Anti-inflammatory effect of Interleukin-10 in Mouse Macrophages Exposed to Live Chlamydia trachomatis	Alabama State University

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Graduate	Durfey	Casey	Incorporation of Nanoparticles Within Mammalian spermatozoa Using in vitro vacapitation	Mississippi State University
Graduate	Egbo	Timothy	The Surface Protein (MPER) of HIV on the Q β Coliphage as a Vaccine Candidate	Alabama State University
Graduate	Egert	Matthew	Assessing the Influence of Secretory Phospholipase A2 Isoforms and PLA2R Expression on Responsive Liposome Nanoparticle Uptake within Prostate Cancer Models	Auburn University
Graduate	Ememu	Ejovwoke	The antimicrobial and Transcriptional Effect of AgCNTs on Pseudomonas Aeruginosa	Alabama State University
Graduate	Ethridge	Aiesha L.	Synthesis of Metallic Nanoparticles and Investigation of their Behavior towards Biological Systems	Tuskegee
Graduate	Finley	Sheree	Forensic Nanotechnology: Recent Advancements in Criminal Investigations	Alabama State University
Graduate	Garg	Sourav	Low Pressure CVD Growth and Characterization of 2D MoS ₂ Monolayers for Bio-Applications	University of Alabama
Undergraduate	Givens	Tatyana	Silver Coated Carbon Nanotubes Conjugated to Peptides for the Inhibition of E.coli	Jackson State University
Graduate	Goswami	Joyanta	Curing Rheology and Composite Properties of Pristine and Styrene Functionalized SWNT	Auburn University
Graduate	Gottipati	Manoj	Probing Astrocytes with Carbon Nanotubes and Assessing Their Effects on Astrocytic Structural and Functional Properties	University of Alabama at Birmingham
Graduate	Gross	Brett	Micro-particle-Mediated Modulation of Dendritic Cell Function for Optimal Tumor Clearance	University of Alabama at Birmingham
Undergraduate	Hanley	Brittnie	Mechanistic Analysis of Forensic Drug Cocaine and Marijuana Detection Using Nanoparticles	Alabama State University
Undergraduate	Hopkins	Seantel	Effects of Non-Aggregating Chemically Functionalized Carbon Nanotubes on the Morphology of Astrocytes and D54 Human Glioma Cells	Jefferson State Community College
Graduate	Huang	Hanxiao	Fibrillation Control Study of PT FE/SAN Solvent Prepared Nanocomposites	University of Alabama at Birmingham
Graduate	Huntley	Chermar	The Influence of Strong Acid Hydrolyses on the Crystal Structure and Thermal Stability of Cellulose Fibers	Tuskegee
Graduate	Hwang	Patrick	The Development of a Bio-inspired Hybrid Nanosack for Enhancing the Efficacy of Pancreatic Islet Transplantation in the Omentum	University of Alabama at Birmingham
Assistant Professor	Jain, Phd	Sapna	Biofunctionalized Quantum Dots for Detection of Foodborne Bacterial Pathogens	Alabama State University
Graduate	Jasper	Shanese	Nano-Metal Composites Inhibit Bacteria	Alabama State University
Graduate	Jindal	Nik	Exploring Electrodeposition Technique to Enhance Functionality of Bio-Implants	University of Alabama at Birmingham

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Graduate	Jones	Leandra B.	Anti-viral Drugs Used as Potential Inhibitors Against Respiratory Syncytial Virus	Alabama State University
Graduate	Jones	Kelvin	Biosensor for Threat agent Detection on the Novel RNA Coliphage Q β Display Platform	Alabama State University
Graduate	Kaneza	Nelly	Electrochemical and Spectroscopy Studies of BODIPY-Thiophene-Triphenylamine Based Dyes for Dye-Sensitized Solar Cells	University of Alabama
High School Student	Kaushik	Ashish	Effect of pH variation on the antibacterial activity of a novel antimicrobial peptide on Gram-negative and Gram-positive bacteria	Alabama State University
Graduate	Kaushik	Sagar	Evaluation of Ciprofloxacin and Metronidazole Encapsulated Injectable Self-Assembled Biomimetic Nanomatrix Gel on Enterococcus faecalis and Treponema denticola	University of Alabama at Birmingham
Graduate	Khan	Muhammad	Hybrid Nanopore Biosensor: In Vitro Label-Free Electrochemical Detection of Epithelial Na ⁺ Channel	University of Alabama
Postdoc	Laiginhas, PhD	Fernando	APT Analysis of Bulk Chemistry in Mineral Standards	University of Alabama
Graduate	Liu	Fei	Temperature-sensitive polymer sponges for controlled delivery of anticancer drugs	University of Alabama at Birmingham
Undergraduate	Loehr	Savannah	ASU also paid for Loehr after she paid. ASU will need to reimburse Loehr and may submit another attendee to take Loehr's place	North Carolina at Chapel Hill
Undergraduate	Loehr	Savannah	Mode of Administration of Gold Nanoparticles Determines the Inhibition of Respiratory Syncytial Virus	North Carolina at Chapel Hill
Vendor Table Only	Marten	Rich	(1) Atom Probe Tomography Analysis of Bulk Chemistry in Mineral Standards (2) Marketing and Promoting Core Research Facilities: Economic Development and the Central Analytical Facility at The University of Alabama	University of Alabama
Undergraduate	Montgomery	Aundrya	Gold Nanorod Application to H Ep-2 Cells to Observe miRNA Expression and Cytotoxicity	Alabama State University
Graduate	Nie	Ben	A New Strategy for sPLA2 Responsive Liposome In Vitro and In vivo Uptake Quantification in Prostate Cancer by LC-MS/MS	Auburn
Undergraduate	Noeller	Taylor	RNA Phage Display Peptide: A Platform for Biosensor Development	Alabama State University
Graduate	Noor	Matthew	Comparing covalent and non-covalent lysozyme functionalized single-walled carbon nanotubes	Auburn University
Graduate	Oh	Jonghwa	Comparison of Buckypapers' (BPs) Adsorption Efficiency by Different Fabrication Methods	University of Alabama at Birmingham
Undergraduate	Omar	Yousef H	Comparative Study on the Protective Efficacy of Silver, Zinc Oxide and Titanium Dioxide Nanoparticles in Human Keratinocytes Against UVB Radiation-Induced DNA Damage	University of South Alabama

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Graduate	Parit	Mahesh B	Polymer Specific Functionalization of Single-Walled Carbon Nanotubes (SWNTs) for Composite Additive Manufacturing	Auburn University
Graduate	Peoples	Veolanda A.	The Antimicrobial Effect of Metallic Nanoparticle-Antibiotics Conjugates on the Viability of Pneumococci	Alabama State University
Graduate	Porter	Haley	Physicochemical Characterization of Nepafenac by Hydroxypropyl-Beta-Cyclodextrin Complex for Ocular Delivery	Auburn University
Graduate	Prado	J. Rachel	Thermal Stability of Gelatin Gels Confined to Silica Gel Nanopores	University of Alabama at Birmingham
Associate Professor	Ramapuram, PhD	Jayachandra B.	Formulation of Genistein Nano Emulsion for Enhanced Transdermal Delivery	Auburn University
Graduate	Saha	Partha	Sulfonated Cellulose Nanocrystal Films for Structural Materials in MEMS	Auburn University
Graduate	Sahu	Rajnish	Intracellular Trafficking of a Chlamydia Nanovaccine with Coumarin-6 Labeling in Mouse Primary Dendritic Cells	Alabama State University
Graduate	Salam	Hamad	Molecular Modeling of Novel Peptide-Receptor Interaction for The Targeted Drug Delivery of The Prostate Cancer	Tuskegee University
Graduate	Shan	Zhichao	Nanostructured Carbon Doped Titanium Oxygen Electrode for Efficient Water Splitting Reaction	University of Alabama
Assistant Professor	Simien, PhD	Daneesh	Sorting of Single Walled Carbon Nanotubes En Route to Exploring Nanoscale Molecular Cloaking in Hydrocarbon Based Structure	University of Alabama at Birmingham
Graduate	Singh	Ankur K.	Chitosan-pHEMA Based RSV-F DNA Nanovaccine	Alabama State University
Graduate	Syed	Farooq	A Molecular Dynamics Simulation Approach to Predict the Elastic Properties of Epon 862 Composites Reinforced With Carbon Nanotubes	Tuskegee
Assistant Professor	Thomas, PhD	Vinoy	Drug Eluting Fibro-porous 3D Tubular Conduits for Vascular Graft Applications	University of Alabama at Birmingham
Graduate	Tiwari	Pooja M.	Peptide Gold Nano-Conjugates Inhibit Respiratory Syncytial virus Infection in Balb/C Mice	Alabama State University
	Williams	Lamario	Assisting at registration table	University of Alabama at Birmingham
Graduate	Wood	Andrew	Reinforcement of Hydrogels via Discontinuous Non-Woven Soy Fiber Scaffolds	University of Alabama at Birmingham
Graduate	Xue	Bing	Intracellular Degradable Hydrogel Cubes and Spheres for Anti-cancer Drug Delivery	University of Alabama at Birmingham