

PA - 01 Cisplatin Induces Reactive Oxygen Species, Changed Glutathione Levels, and Activates Apoptosis in Human Acute Leukemia Cells

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PA - 02 Inhibiting CRD-BP Potentiates the Anti-Growth Effect of Drugs on Colorectal Cancer Cells

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PA - 03 Cytotoxic and Apoptotic Effects of Medicinal Plant against Neuroglioma

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PA - 04 Cytotoxic Efficacy of Cameroon Medicinal Plant in the Management of Leukemia

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PA - 05 The Effect of Natural Products Extract in the Treatment and Management of Ovarian Cancer

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PA - 06 Membrane-Bound Complement Regulatory Proteins May Provide Prognostic and Predictive Significance in Glioblastoma

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PA - 07 Wetland Land Use/ Land Cover (LULC) Changes: Case Study from Grand Bay National Estuarine Research Reserve (NEER)

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PA - 08 Arsenic Trioxide Induces Changes in Induced Pluripotent Stem Cells

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PA - 09 Inhibition of Leptin Secretion by *Vernonia amygdalina* Extract

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PA - 10 Cytogenotoxic Effects of *Vernonia amygdalina* and Paclitaxel on Estrogen Receptor Negative Breast Cancer Cells

Roderick McDowell, Carolyn B. Howard and Clement G. Yedjou

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PA - 11 Bioaccumulation of Heavy Metal and Metalloid in *Crassostrea virginica* in The Gulf of Mexico

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PA - 12 Gene Networks Encoding Universal Stress Proteins in *Brucella* Genomes

Dominique R. Smith-McInnis, Shaneka S. Simmons, Paul B. Tchounwou, and Raphael D. Isokpehi

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PA - 13 The Interplay of Environmental and Genetic Factors Associated with Prostate Cancer

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PA - 14 Role of TGF- β 3 in Prostate Cancer in African-American Men

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PA - 15 The Impact of Greenhouse Gases on Sea Ice and Snow Cover From 1980 – 2015

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PA - 16 Bioinformatics Analysis for the Environmental and Genetic Risk Factors of Breast Cancer

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PA - 17 Effects of Iron Deficiency on Fatigue Levels in Adolescent Female Basketball Players

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PA - 18 Prostate Cancer Health & Racial Disparities among Different Environmental Territories and the Biomarker Studies

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PA - 19 Aflatoxins Contamination and Potential Impact on Food Security and Human Health

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PA - 20 Targeting Hippo-Mutant Tumors through Tankyrase Inhibitors and Statins

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PA - 21 Induction of Cytotoxic and Necrotic Effects on Human Leukemia (HL-60) Cells by a Heavy Metal

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PA - 22 Preclinical Assessment of Garlic in the Management of Acute Promyelocytic Leukemia

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PA - 23 Inhibitory Effect of Water Garlic Extract on Human Leukemia (HL-60) Cells

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PA - 24 Role of Oxidative Stress in Lead Nitrate Induced Cytotoxic Effects on Human Leukemia (HL-60) Cells

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PA - 25 Histone Phosphorylation Association with Metastatic Lung Cancer

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PA - 26 The Effects of Cisplatin and Plant Extract on Metastatic Lung Cancer Cells

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PA - 27 Plant Extract Induces Leukemia Cells (HL-60) Death

Hope L. Miller, Meagan Ford, Chevanna Doris and Maricica Pacurari

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PA - 28 Binding Studies of 1,1',1''-(Nitrilotris(Propane-3,1-Diyl))Tris(3-(4-Nitrophenyl)-Based Urea and Thiourea Receptors for Anions

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PA - 29 Selective Binding of Fluoride by a Naphthylene-Based Dipodal Urea Receptor for Anions

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PA - 30 Synthesis and Sensing Properties of 4-Nitrophenyl Based Dipodal Urea for Anions

Chassidy Carter, Maryam Emami Khansari, Corey R. Johnson and Md. Alamgir Hossain

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PA - 31 Synthetic Receptors Induce Anti Angiogenic Milieu in *In Vitro* Model of Cytotrophoblast Cells

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PA - 32 Sensing of Citrate with a Synthetic Host

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PA - 33 **A C_3 Symmetric Sulfate Complex: Selective Recognition of Sulfate with an *M*-Nitrophenyl-Functionalized Hexaurea Receptor**

Bobby Portis¹, Maryam Emami Khansari¹, Corey R. Johnson¹, Douglas R. Powell² and Md. Alamgir Hossain¹

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PA - 34 **Two-Photon Fluorescent Molybdenum Disulfide Dots for Targeted Prostate Cancer Imaging in the Biological II Window**

Carrie Sweet, Avijit Pramanik, Stacy Jones, and Paresh C. Ray

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PA - 35 **Selective Detection of Heavy Metal Ions by Using a Novel Nano Material Attached Aryl-Azo-Histadine Probe**

Salma Begum, Avijit Pramanik and Paresh C. Ray

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PA - 36 **Synthesis and Characterization of Photophysical Studies of Biochar Based Carbon Dots and Functional Materials**

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PA - 37 **Development of Novel SERS Probe for Selective Screening of Healthy Prostate from Malignant Prostate Cancer Cells Using Zn(II)**

Aruna Vangara, Avijit Pramanik, Suhash Reddy Chavva , Bhanu Priya Viraka Nellore, Kelli May, Tejus Matthew, Stacy Jones and Paresh Chandra Ray

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PA - 38 **New Hydrochar And Biochar Materials and their Studies for Photophysical Properties by Hydrothermal Carbonization Method**

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PA - 39 Plant-Microbe-Uranium Interactions in Phytoaccumulation of Uranium from Soil using Sunflower and Indian Mustard

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PA - 40 Plant-Microbe-Uranium Interactions in Phytoaccumulation of Uranium from Soil using Sunflower and Indian Mustard

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PA - 41 Electron Transfer in Halogen Bonded Co-Crystals

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PA - 42 Computational Study of Water Clusters in their Neutral and Anion forms using Density Functional Theory

Kimberly Madison, Takia Smith, Wojciech Kolodziejczyk and Glake Hill

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PA - 43 Determination of Toxicological Impact of Combining Silver Nanoparticles with Neomycin

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PA - 44 Matrix Removal for Determination Heavy Metal and Radionuclide Impurities from Multivitamin Tablets by ICP-MS

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PA - 45 **Determining Toxicity of Metal Nanoparticles Combined with Kanamycin: Comparison of Silver Nanoparticles and Copper Nanoparticles**

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PA - 46 **Quick Quantification of Exosomes, Circulating Bionanoparticles**

R. Xu, X. Li, YM Liu

PA - 47 **Discovery and Optimization of New Benzimidazole-Based Compounds as Antitrypanosomal Agents**

Jasmine T. Collins, Huaisheng Zhang and Ifedayo Victor Ogungbe

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PA - 48 **Phytochemical Investigation of *Acalypha fimbriata* for Antiplasmodial and Antitrypanosomal Agents**

Rogers J Nyamwihura and Ifedayo Victor Ogungbe

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PA - 49 **UV Photolysis Studies of 3-Nitrofluoranthene by HPLC, GCMS, and EPR Techniques**

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PA - 50 **Synthesis of (3S,4S,5R)-Dihydro-3,4-Dihydroxy-5-Vinylfuran-2(3h)-One from L-Gulonic Acid Γ -Lactone and it's Biological Studies as an Anticancer Agent**

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PA - 51 **Reducing Air Pollution: Fabrication of Composite Titanium Foams Modified with Carbon Nanoparticles for Automotive Catalytic Converters**

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PA - 52 Biochar: A Competitive Carbon-Based Material for Lead Removal from Aqueous Solution

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PA - 53 Treatment of Stainless Steel Pickling Residues for Environmental Safe Disposal

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PA - 54 Fate and Transport of Neonicotinoid Insecticides in Agricultural Soil

Yang Li and Yadong Li

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PA - 55 Analyzing SHMT2 Enzyme to Inhibit Cancer Cell Proliferation

Shaurya Swami

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PA - 56 Level of Contamination in Three Aquatic Ecosystems of the State of Chihuahua, Mexico, using a Multivariate Analysis

Jesus Manuel Ochoa-Rivero¹, Alberto Hernandez-Armendariz², Jose Roberto Espinoza-prieto³ and Hector Rubio-Arias³

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PA - 57 Use of In-Series Constructed Wetland System to Remove Organic Matter and Nutrients from Pig Farm Sewage

Celia de la Mora-Orozco¹, Irma J. Gonzalez-Acuña¹, Ruben A. Saucedo-Teran², Hugo E. Flores-López¹, Hector O. Rubio-Arias³ and Jesus Ochoa-Rivero¹

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PA - 58 Analysis of the Bioremoval of Polycyclic Aromatic Hydrocarbons (PAHs) in Water by SPME-GC/MS

Esmeralda G. Blanco¹, Francisco J. Zavala-Díaz de la Serna¹, María del Rosario Peralta¹, Lourdes Ballinas-Casarrubias¹, Héctor Rubio-Arias², Jesús Manuel Ochoa-Rivero³, Beatriz A. Rocha-Gutiérrez¹

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PA - 59 Distinctive Sustainable Water Management 2017, for a Rational Use of Water Before Climate Change

Espinoza Prieto José Roberto, Palma Rosas Jair, Díaz Plascencia Daniel, Ordoñez Baquera Perla Lucia and Rubio Arias Héctor

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PA - 60 Mexican Group of Regenerative Management of Cattle Ranch: A New Alternative to Climate Change for a Sustainable Livestock

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PA - 61 Removal of Hydrogen Sulfide (H₂S) by Adsorption with Nanoparticles of Biogas in Dairy Farms

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PA - 62 Indoor Radon Gas (²²²Rn) In A Public Workplace In Aldama, Chihuahua, Mexico

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PA - 63 Indoor Radon Gas (^{222}Rn) in Family Homes in Aldama, Chihuahua, Mexico and the Correlation to Lung Cancer

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PA - 64 Assessment of Heavy Metals in Thermal Spring Waters and Indoor Radon Levels (^{222}Rn) in a Bedroom Close to a Thermal Spring in Mexico

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PA - 65 Determination of Inorganic Arsenic (IAS) in Water using an Automatized Molybdenum Method Based on Polymeric Inclusion Membranes (PIM)

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PA - 66 Fruits and Vegetables Wastes Under Anaerobic Submerged Fermentation to Produce Household Goods

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PA - 67 Improving Residual Water with a Biodigestor on a Dairy Farm in Northern Mexico

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PA - 68 Heavy Metals Remosion in Polluted Water using Innovative Filters Jam-Packed with Natural Zeolites and Ferric Nanoparticles

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PA - 69 Mapping Seagrass Beds Using Landsat 8: Case Study from Pascagoula River Basin, Mississippi, USA

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PA - 70 Upgrading New Orleans to a Sponge City to Reduce Flood Risk Using Remote Sensing Assessment

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PA - 71 “Virus Capsid Based Metal Complexes for Cancer Chemotherapy”

Amber Gardner¹ and Stephen J. Stray²

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PA - 72 Biomedical Engineering in Cardiovascular Disease: Heart Attack in Vitro

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PA - 73 Prevalence of Depression and the Factors Associated with it among African American Men Who Have Sex with Men in the Southeastern United States: A Population Study

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PA - 74 **Distribution of C-reactive Protein among US Adults from National Health and Nutrition Examination Survey (NHANES), 2009-2010**

Azad R. Bhuiyan¹, Danielle R. Bogan¹, Yalanda M. Barner¹, Marinelle Payton¹, Sophia S. Leggett¹, Sathanur R. Srinivasan², Jihua Xu² and Gerald S. Berenson³

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PA - 75 **An Examination of HPV Vaccinations among Minority Youths in Mississippi (MS): A Literature Review**

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