

**PB - 01 Comparative Analyses of the P450-Derived HPLC-Metabolomes of Vernonia Amygdalina, Paclitaxel, Doxorubicin and Vincristine**

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**PB - 02 In-Vitro Mechanisms of Mercury Induced Genotoxicity and Oxidative Stress in Human Renal Proximal Tubular (HK-2) Cells**

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**PB - 03 Thioamide Derivative-Induced Cytotoxic Effect and Phosphatidylserine Externalization in Human Liver Carcinoma (MCF-7) Cancer Cells**

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**PB - 04 Vernonia amygdalina Leaf Extracts-Induced DNA Damage and Apoptosis of Human Breast Adenocarcinoma (MCF-7) Cancer Cells**

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**PB - 05 Arsenic Trioxide Modulates Genotoxicity, Cell Cycle Regulation, and Apoptosis in Colon Carcinoma (HT-29) Cells**

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- PB - 06**     **The Effect of L-Buthionine Sulfoximine on the Cytotoxicity and Interaction of AS, CD, HG, and PB on MCF 7 Cell Line**
- Charles K. Klutse** , **Egbe S. Egiebor**, **Katherine Squibb**, **Tito Aghiew**, **Ali B. Ishaque**
- University of Maryland Eastern Shore, Department of Natural Sciences, Princess Anne, MD 21853, USA*
- PB - 07**     **Cadmium-Induced Cytotoxicity in AML 12 Mouse Hepatocytes**
- Waneene C. Dorsey**<sup>1</sup>, **Clement Yedjou**<sup>2</sup> and **Paul B. Tchounwou**<sup>2</sup>
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- PB - 08**     **Effect of Lead Levels in Breast Milk on the Estimated Infant Daily Intake of Lead**
- Monica Maria Bastos Paoliello**<sup>1</sup>, **Gina Ayumi Kobayashi Koyashiki**<sup>2</sup> and **Eduardo Mello De Capitani**<sup>3</sup>
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- PB - 09**     **Human Geophagia: The Epidemiology of a Silent Ancient Disorder in Modern Africa**
- Stella C. E. Anyangwe**
- World Health Organization Country Office, 351 Schoeman Street, Pretoria 0126, Republic of South Africa*
- PB - 10**     **Study of Afatoxins Content of Food and Implications in Malnutrition and Cancer in Cameroon**
- Angele N. Tchana**, **Paul F Moundipa** and **Félicité M. Tchouanguep**
- Laboratory of Molecular Toxicology and Pharmacology, Department of Biochemistry, University of Yaoundé I, Cameroon*
- PB - 11**     **Diagnosis of Mercury Use in Health Care Centres in Uruguay**
- L. Pereira**, **A Cousillas**, **N. Mañay** and **A. Laphitz**
- Toxicology & Environmental Hygiene Department, Faculty Of Chemistry, University of the Republic of Uruguay*
- PB - 12**     **A 2-Stage Design for Minimizing the Overall Adjustment for Multiplicity in Microarray Studies for GxE**
- J. T. Efrid**
- UNCG Center for Health of Vulnerable Populations, 237B McIver Building, Admin. Dr., Greensboro, NC, USA 27402-6170*
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**PB - 13 Integrating Tools and Data: NCIBI Suite of Tools**

**Jyoti N. Athanikar, James D. Cavalcoli, Barbara Mirel, Hosagrahar V. Jagadish, Gilbert S. Omenn and Brian D. Athey**

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**PB - 14 Integrated Interactome Profiles of Nuclear Receptors for Accelerated Drug Discovery**

**Bethany Rankin<sup>1</sup>, Matthew Hudson<sup>2</sup>, Jalonda Coats<sup>4</sup>, Sarada P. Vissapragada<sup>1,5</sup>, C. R. Vinayaka<sup>5</sup>, Pradip Biswas<sup>4</sup>, Hari H.P. Cohly<sup>3</sup> and Rajendram V Rajnarayanan<sup>1,4</sup>**

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**PB - 15 Extending the Investigation of *Grin2b*, A Prioritized Gene for Predisposition to Bipolar Disorder, using NCIBI Tools**

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**PB - 16 Bipolar Disorder Sentence Database and Lexrank Similarity Assessment of Sentences on Lithium Treatment**

**Matthew N. Anyanwu<sup>1</sup>, Tolulola O. Oyeleye<sup>2</sup>, Wellington K. Ayensu<sup>2</sup>, Mehdi Pirooznia<sup>3</sup> and Raphael D. Isokpehi<sup>2</sup>**

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**PB - 17 Automatic Information Extraction on Cell-Type Specific Arsenic Carcinogenicity**

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**PB - 18 Damaging Functional Impact of Single Nucleotide Polymorphisms in Arsenic Responsive Genes Associated with Skin Neoplasms**

**Raphael D. Isokpehi, Barbara G. Graham, Udensi K. Udensi, and Hari H.P. Cohly**

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- PB - 19**      **Automated Selection of Genes for Translational Research on Comorbidity or Bipolar Disorder with Substance Abuse**
- Raphael D. Isokpehi**<sup>1</sup>, Sharon A. Lewis<sup>2</sup>, Tolulola O. Oyeleye<sup>1</sup>, Wellington K. Ayensu<sup>1</sup> and Tonya M. Gerald<sup>3</sup>
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- PB - 20**      **An Absolute Actinometer for Singlet Oxygen Production Upon Irradiation of Carbon Nanotubes**
- Xianchun Zhu**, Naveen Gandra, Wyatt Sutton, Bertrand Wilson and Ruomei Gao
- Chemistry department, Jackson State University
- PB – 21**      **Synthesis and Characterization of Long Gold Nanorods and their Use for Bacteria Sensing**
- Tahir Arbnesi**<sup>1,2</sup>, Shuguang Wang<sup>1</sup>, Birsen Varisli<sup>1</sup>, Dulal Senapati<sup>1</sup>, Anant Kumar Singh<sup>1</sup> and Paresh Chandra Ray<sup>1</sup>
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- PB - 22**      **Shape Dependent Cellular Uptake and Toxic Effects of Silver Nanomaterials**
- Dulal Senapati**<sup>1</sup>, Wentong Lu<sup>2</sup> and Paresh Chandra Ray<sup>1</sup>
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- PB - 23**      **RNA Quantification Using Size Dependent Nonlinear Optical Properties of Gold Nanoparticles**
- Anant Kumar Singh** and Paresh Chandra Ray
- Department of Chemistry, Jackson State University, 1400 J R Lynch Street, Jackson, MS 39217
- PB - 24**      **Sensitivity Evaluation of Cytotoxicity Assays and Cell Lines Following Exposure to Silver Nanoparticles.**
- Anita Patlolla**<sup>1</sup>, Saber Hussain<sup>2</sup> and Paul Tchounwou<sup>1</sup>
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- PB - 25**      **Treatment of Cancer Using Gold Nanomaterial Based Photodynamic Therapy (PDT)**  
**Sri Ranjini Arumugam<sup>1</sup>, Wentong Lu<sup>1</sup> and Paresh Chandra Ray<sup>1</sup>**  
*Department of Chemistry, Jackson State University, 1325 J R Lynch Street, Jackson, MS 39217, USA*
- PB - 26**      **Environmental Modeling and Prediction for Climate and Seasonal Fluctuations over the Grand Bay Area**  
**R. Suseela Reddy<sup>1</sup>, Paulinus Chigbu<sup>2</sup> and Paul Tchounwou<sup>2</sup>**  
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- PB - 27**      **Effects of Industrial Emissions on Health, and Climate Change: A Case Study on Selected Stations of Mississippi**  
**Francis Tuluri<sup>1</sup>, R. Suseela Reddy<sup>1</sup>, Anjaneyulu Yerramilli<sup>1</sup>, Jerry Beasley<sup>2</sup>, John Colonias<sup>1</sup> and Paul Tchounwou<sup>1</sup>**  
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- PB - 28**      **A Numerical Modeling Study of the Diurnal Variations of the Coastal Boundary Layer Structure and the Land-Sea Breeze Circulations over Gulf Coast Region during Summer and Winter Seasons**  
**Hari Prasad Dasari<sup>1</sup>, Anjaneyulu Yerramilli<sup>1</sup>, Venkata Bhaskar Rao Dodla<sup>1</sup>, Challa Venkata Srinivas<sup>1</sup>, Francis Tuluri<sup>1</sup>, Julius M. Baham<sup>1</sup>, John H. Young<sup>1</sup>, Robert Hughes<sup>1</sup>, Chuck Patrick<sup>1</sup>, Mark G. Hardy<sup>2</sup> and Shelton J. Swanier<sup>2</sup>**  
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<sup>2</sup>College of Science, Engineering & Technology, Jackson State University, 1400 Lynch Street, Jackson MS 39217, USA*
- PB - 29**      **Characterization of Geological Radioactivity in a Chihuahua, México Basin**  
**Ignacio Alfonso Reyes-Cortés<sup>1</sup>, Manuel Reyes-Cortés<sup>1</sup> and María Elena Montero-Cabrera<sup>2</sup>**  
*<sup>1</sup> Faculty of Engineering of the Autonomous University of Chihuahua, Chihuahua, Mexico  
<sup>2</sup>Center of Research in Advanced Materials (CIMA-V-Chihuahua), Chihuahua, Mexico*
- PB - 30**      **The Impact of Agricultural Chemicals on the Environment and Public Health in South-South East Asia- Status and Control Strategies for Diffuse Pollution**  
**A. J. Englande, Jr.**  
*School of Public Health & Tropical Medicine, Tulane University, New Orleans, LA 70112, USA*
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**PB - 31      Pharmaceutical Waste: Best Management Program**

**Pao-Chiang Yuan and Doris McPherson**

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**PB - 32      Determination of Toxic and Trace Metals in Calcium Supplements**

**N. Someswara Rao, Vinod Lukose and K. Gunaseelan**

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**PB - 33      Photooxidation Activity of Thiopurines: Time-Resolved Approach**

**Yazhou Zhang, Xianchun Zhu, Naveen Gandra, Hope Hamlin and Ruomei Gao**

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**PB - 34      Study of Chemical Compositions of a Nigerian Edible Plant *Venonia amygdalina* (VA)**

**Xuan Luo<sup>1</sup>, Ernest Izevbogie<sup>2</sup> and Ken S. Lee<sup>1</sup>**

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**PB - 35      Using GIS to Compare Pm<sub>2.5</sub> Concentrations from Air Quality Monitoring Data and Satellite Data Along the Mississippi Gulf Coast**

**James Kelley and John Young**

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**PB - 36      Photomutagenicity of Gold in Ionic and Nanoparticle Forms and Interaction of Gold Nanoparticles with *Salmonella typhimurium* TA102 Bacteria**

**Shuguang Wang, Dulal Senapati, Rasheeda Lawson, Paresh C. Ray and Hongtao Yu**

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**PB - 37      Photocatalytic Degradation of Selected Nitro-Polycyclic Aromatic Hydrocarbons (NPAHS) Using TiO<sub>2</sub>**

**Samuel Dasary, Tiara Jefferson and Hongtao Yu**

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**PB - 38**      **Enhanced Bioremediation of Polycyclic Aromatic Hydrocarbons by Environmental Friendly Techniques**

**Huey-Min Hwang**

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**PB - 39**      **Manure Utilization and Management in the College of Zootechnology and Ecology Production Units, Chihuahua, Mexico**

**Cristina Velez, Carmelo Pinedo, Ricardo Soto and Hector O. Rubio**

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**PB - 40**      **Numerical Simulation of Atlantic Hurricanes - Merits of Nested Domain Approach: A Case Study of Hurricane Katrina (2005)**

**Venkata Bhaskar Rao Dodla<sup>1</sup>, Hari Prasad Dasari<sup>1</sup>, Anjaneyulu Yerramilli<sup>1</sup>, Challa Venkata Srinivas<sup>1</sup>, Francis Tuluri<sup>1</sup>, Julius M. Baham<sup>1</sup>, John H. Young<sup>1</sup>, Robert Hughes<sup>1</sup>, Chuck Patrick<sup>1</sup>, Mark G. Hardy<sup>2</sup> and Shelton J. Swanier<sup>2</sup>**

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**PB - 41**      **Synthesis of Spiro-Isoxazolines via Intramolecular Cyclization**

**Ashton T. Hamme II, Ann O. Omollo, Eric McClendon and Lungile Sitole**

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**PB - 42**      **Synthesis, Acid Mediated Structural, Ring Opening and NLO Properties of Spiropyrazolines**

**Sureshbabu Dadiboyena<sup>1</sup>, Anant K. Singh<sup>1</sup>, Paresh C. Ray<sup>1</sup>, Edward Valente<sup>2</sup> and Ashton T. Hamme II<sup>1</sup>**

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**PB - 43**      **Novel Pyrazole Synthesis via [2+3]-Dipolar Cycloaddition of Alkyne Surrogates**

**Sureshbabu Dadiboyena<sup>1</sup>, Edward J. Valente<sup>2</sup> and Ashton T. Hamme II<sup>1</sup>**

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**PB - 44 Solid Phase Pre-concentration of Arsenic and Antimony for Determination by Hydride Generation ICP-AES**

Zikri Arslan<sup>1</sup>, Sitki Baytak<sup>2</sup>, Musabbir A. Saeed<sup>1</sup> and Md. Alamgir Hossain<sup>2</sup>

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**PB - 45 New Bidentate Ligands for the Removal of Heavy Metals from Aqueous Medium**

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**PB - 46 Analysis of Metal Content and Distribution in Profiling Normal and Tumor Tissues from Three Human Carcinomas**

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**PB - 47 Hexavalent Chromium-Induced Multiple Biomarker Response in Liver and Kidney of Goldfish, *Carassius auratus***

Venkatramreddy Velma and Paul B. Tchounwou

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**PB - 48 Dietary Exposure to Potentially Toxic Trace Elements in Nigeria: An Overview**

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**PB - 49 The Study of Antiviral Activity of Elderberry Bloom (*Sambucus nigra*) Growing in Azerbaijan**

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**PB - 50 Environmental Liabilities in Latin American Urban Ecosystems: An Ecotox Based Approach**

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**PB - 51 Oxygen Consumption as a Rapid, Highly Sensitive and Non Destructive Biomarker of Environmental Stressors**

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**PB - 52 Genomic Changes in Human Epidermal Cells Exposed to Arsenic Trioxide**

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**PB - 53 Anion Recognition and Sensing with Polyaza-Based Artificial Receptors**

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**PB - 54 Rhodamine Activated Gold Nanoaggregates for DNA Detection**

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**PB - 55 Carbohydrate Utilization Network Annotation in Sequenced Vibrio Species**

**Hari H.P. Cohly<sup>1</sup>, Jennifer N. Sims<sup>1</sup>, Raphael D. Isokpehi<sup>1</sup> and Alison St. John<sup>2</sup>**

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