

- PA - 01**     **Th1/Th2 Cytokine Expression in Children Exposed to Metals from Mine Tailings**
- Maria E. Moreno-Godínez**<sup>1,2</sup>, Diana Meza-Figueroa<sup>3</sup>, Leonor C. Acosta-Saavedra<sup>1</sup>, Julieta S. Peralta<sup>2</sup>, Eunice Vera<sup>1</sup>, Mariano E. Cebrian<sup>1</sup>, Lizbeth Lopez-Carrillo<sup>4</sup>, Patricia Ostrosky-Wegman<sup>5</sup>, Emma S. Calderon-Aranda<sup>1</sup>
- <sup>1</sup>Laboratory of Immunotoxicología, Cinvestav, Mexico, <sup>2</sup>Laboratory of Molecular Toxicología, Independent University of Guerrero, Mexico, <sup>3</sup>Department of Geology, Division of Exact and Natural Sciences. University of Sonant, Mexico, <sup>4</sup>National Institute of Health Publishes, Mexico, <sup>5</sup>Institute of Biomedical Investigations, Independent National University of Mexico, Mexico
- PA - 02**     **Ifn-γ and Il-4 Plasmatic Levels and their Association with Metals Exposed to Children**
- Blanca A Maldonado L.**<sup>2</sup>, Leonor C. Acosta-Saavedra<sup>1</sup>, Emma S. Calderon-Aranda<sup>1</sup>, Ma. E. Moreno-Godínez<sup>1,2</sup>
- <sup>1</sup>Laboratory of Immunotoxicología, Cinvestav, Mexico, <sup>2</sup>Laboratory of Molecular Toxicología, Independent University of Guerrero, Mexico
- PA - 03**     **Gnb1 Reporter Gene Constructs as a Tool to Study Phytoestrogen Regulation of G-Protein Signaling**
- Shireesha Sankella**<sup>1</sup>, Srivatcha Naragoni<sup>1</sup> and Wesley G. Gray<sup>1,2</sup>
- <sup>1</sup>Department of Environmental Toxicology and <sup>2</sup>Department of Chemistry, Southern University and A & M College, Baton Rouge, LA 70813
- PA - 04**     **Functional Analysis of Gnb1 Reporter Gene Constructs**
- Shireesha Sankella**<sup>1</sup>, Srivatcha Naragoni<sup>1</sup> and Wesley G. Gray<sup>1,2</sup>
- <sup>1</sup>Department of Environmental Toxicology and <sup>2</sup>Department of Chemistry, Southern University and A & M College, Baton Rouge, LA 70813
- PA - 05**     **Antioxidant Effect of Vernonia Amygdalina on Acrylonitrile-Induced Oxidative DNA Damage in Rat Astrocytes**
- Teresa Demeritte**<sup>1</sup>, Xinzhu Pu<sup>2</sup>, Ken S. Lee<sup>1</sup>, Ernest B. Izevbigie<sup>1</sup> and James E. Klaunig<sup>2</sup>
- <sup>1</sup>Department of Chemistry and Department of Biology, Jackson State University, Jackson, MS 39217  
<sup>2</sup>Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN 46202
- PA - 06**     **Study of Chemical Compositions of a Nigerian Edible Plant Vernonia Amygdalina (Va)**
- Xuan Luo**<sup>1</sup>, Ernest Izevbigie<sup>2</sup> and Ken S. Lee<sup>1</sup>
- <sup>1</sup>Department of Chemistry, Jackson State University, Jackson, Mississippi 39217, USA  
<sup>2</sup>Department of Biology, Jackson State University, Jackson, Mississippi 39217, USA
-

**PA - 07**     **The Anti-Proliferative Effect of *Vernonia Amygdalina* Extracts in Prostate Adenocarcinoma is Mediated by Microtubule Destabilization**

**William K. Johnson**<sup>1,3</sup>, Ernest B. Izevbigie<sup>1,2,3</sup> Stephanie Richardson<sup>4</sup>, and Mary Ann Jordan<sup>4</sup>

<sup>1</sup>The Laboratory of Cellular Signaling, Phytochemicals, and Cancer Prevention and Therapies. <sup>2</sup>NIH-Center for Environment Health, College of Science Engineering and Technology. <sup>3</sup>Department of Biology, Jackson State University, Jackson, MS 39217, USA. <sup>4</sup>Department of Molecular, Cellular, & Developmental Biology, University of California Santa Barbara, California.

**PA - 08**     **The Inhibition of Nf- $\kappa$ B Activity and Prostate Tumor Cell Growth by Aqueous *Vernonia Amygdalina* Extracts**

**Keyuna S. Seals**<sup>1</sup> and Ernest B. Izevbigie<sup>1</sup>

<sup>1</sup>The Laboratory of Cellular Signaling, Phytochemicals, and Cancer Prevention and Therapies. <sup>2</sup>NIH-Center for Environment Health, College of Science Engineering and Technology. <sup>3</sup>Department of Biology, Jackson State University, Jackson, MS 39217, USA.

**PA - 09**     **Paclitaxel –Resistant Human Breast Ductal Carcinoma Cells are *V. Amygdalina*-Sensitive in Vitro**

**Lecia Gresham** and Ernest B. Izevbigie

<sup>1</sup>The Laboratory of Cellular Signaling, Phytochemicals, and Cancer Prevention and Therapies. <sup>2</sup>NIH-Center for Environment Health, College of Science Engineering and Technology. <sup>3</sup>Department of Biology, Jackson State University, Jackson, MS 39217, USA

**PA - 10**     **Exogenous Tgfb $\beta$ 1 Upregulates VEGF Transcription under Normoxic Conditions in DU145 Prostate Cancer Cells**

**Eric Darrington**, Maio Zhong, Ana-Cecilia Millena, and Shafiq Khan

Center for Cancer Research and Therapeutic Development, and the Department of Biological Sciences, Clark Atlanta University 223 James P. Brawley Drive, S.W. Atlanta GA 30134

**PA - 11**     **Kupffer Cells Modulate Ethanol-Induced Hepatocyte DNA Synthesis**

**Danielle A. McShan**<sup>1</sup>, Stacy M. Corthals<sup>2</sup>, Craig L. Walker<sup>2</sup> and Lisa M. Kamendulis<sup>2</sup>

<sup>1</sup>Department of Chemistry, Jackson State University, Jackson, MS 3921, <sup>2</sup>Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN 46202

**PA - 12**     **Degradation of Immunotoxin in B-Cells**

**Jetaime Ross**<sup>1</sup>, John Weldon<sup>2</sup> Ira Pastan<sup>3</sup>

Laboratory of Molecular Biology, CCR, NCI, NIH

**PA - 13**     **Tracking RNA Folding using Gold Nanoparticle Based NSET**

**Jelani Griffin**, Uma Shanker Rai, and Paresh Chandra Ray

Department of Chemistry, Jackson State University, Jackson, MS, USA

**PA - 14**     **Nanogold Based Fluorescent Sensors for Detection of Organophosphorus Nerve Agents**

**Ricardo Lemus**<sup>1</sup>, Samuel S R Dasary<sup>1</sup>, Uma S. Rai<sup>1</sup>, Anjaneyulu Yerramilli<sup>1</sup>, Pares Ray<sup>1</sup> and Hongtao Yu<sup>1</sup>

<sup>1</sup>Department of Chemistry, CSET, Jackson State University, Jackson, MS 39217, USA

**PA - 15**     **Protection against Endotoxin-Induced Fetotoxicity is Detected by Cyanine Biosensors**

**Evelyne Ntam**, Tricia Charles, Roxanne Howell, Michael Baker, Carroll Reese, Tanika Martin, Courtney Fields, Tolulope Ayangade, Oluwafadekemi Adedayo and Dwayne Hill

Department of Biology, Morgan State University, 1700 East Cold Spring Lane, Baltimore, Maryland 2125

**PA - 16**     **Methyl Parathion-Induced Toxicity, Genotoxic Damage and Apoptosis in Human Liver Carcinoma Cells**

**Falicia L. Edwards**, Clement G. Yedjou and Paul B. Tchounwou

Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, MS USA

**PA - 17**     **Molecular Basis of Malathion Induces Toxicity to Human Liver Carcinoma (HepG<sub>2</sub>) Cells**

**Pamela D. Moore**, Clement G. Yedjou, and Paul B. Tchounwou

Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18540, Jackson, MS 39217, USA

**PA - 18**     **Study of Neurotoxicity, Hepatotoxicity and Renal Toxicity Biomarkers in Sprague-Dawley Rats Treated with Malathion**

**Pamela D. Moore**, Anita K. Patlolla, and Paul B. Tchounwou

Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18540, Jackson, MS 39217, USA

**PA - 19**     **Cytogenetic Evaluation of Malathion Toxicity in Sprague-Dawley Rats**

**Pamela D. Moore**, Anita K. Patlolla and Paul B. Tchounwou

Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18540, Jackson, MS 39217, USA

**PA - 20**     **Promotion of Mold-Induced Hypersensitivity and Bronchial Constriction by Retinoid Metabolites and Citral: Evaluation of Clinical and Pathological Changes using the Brown Norway Rat Model**

**Carlene Holt**<sup>1</sup>, Ibrahim O. Farah<sup>1</sup> and Anthony Mawson<sup>2</sup>

<sup>1</sup>Department of Biology Jackson State University, Jackson MS 39217 and the <sup>2</sup>University of Mississippi Medical Center, Jackson, MS 39217, USA

- PA - 21**     **[Induction of Apoptosis in Arsenic Trioxide-Treated Lung Carcinoma \(A549\) Cells](#)**
- Alice M. Walker<sup>1</sup>, Jacqueline J. Stevens<sup>2</sup> and Paul B. Tchounwou<sup>1</sup>**
- <sup>1</sup>Molecular Toxicology Research Laboratory and <sup>2</sup>Molecular and Cellular Biology Research Laboratory NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 JR Lynch Street, Box 18540, Jackson, Mississippi, USA*
- PA - 22**     **[Molecular Basis of Arsenic-Induced Cytotoxicity, Oxidative Stress and Genotoxicity in Human Liver Carcinoma Cells](#)**
- Erika T. Brown<sup>1</sup>, Clement G. Yedjou<sup>1</sup>, Paul B. Tchounwou<sup>1</sup>**
- <sup>1</sup>Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, MS, USA*
- PA - 23**     **[Arsenic-Induced Oxidative Stress and Apoptosis in Human Liver Carcinoma \(HepG<sub>2</sub>\) Cells](#)**
- Erika T. Brown<sup>1</sup>, Clement G. Yedjou<sup>1</sup>, Paul B. Tchounwou<sup>1</sup>**
- <sup>1</sup>Molecular Toxicology Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, MS, USA*
- PA - 24**     **[Induction of Cytotoxicity and Oxidative Stress by Lead in Human Leukemia \(HL-60\) Cells](#)**
- Laurette Thisseu, Herbert Giles and Clement Yedjou**
- Cellomics and Toxicogenomics Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, Mississippi, USA.*
- PA - 25**     **[Lead Induces Apoptosis \(Programmed Cell Death\) in Human Leukemia \(HL-60\) Cells via Oxidative Stress](#)**
- Jessica Milner, Clement G. Yedjou and Paul B. Tchounwou**
- Cellomics and Toxicogenomics Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, Mississippi, USA.*
- PA - 26**     **[In Vitro Indices of Oxidative Stress in Lead-Exposed HepG<sub>2</sub> Cells](#)**
- Morgan Reed, Nicolas Walker, Clement G. Yedjou, and Paul B. Tchounwou**
- Cellomics and Toxicogenomics Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, Mississippi, USA.*
- PA - 27**     **[Ascorbic Acid Potentiates Arsenic Trioxide-Mediated Oxidative Stress and Activation](#)**
-

**of P53 Levels in Cultured Human Leukemia (HI-60) Cells**

**Clement Yedjou, Maria Gomes and Paul Tchounwou**

*Cellomics and Toxicogenomics Research Laboratory, NIH-RCMI Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, P.O. Box 18540, Jackson, Mississippi, USA.*

**PA - 28 Assessment of Preclinical Complications of High Glucose using Human Breast Adenocarcinoma (MCF-7) Cells**

**Christine K. Tchounwou, Michelle Robinson and Clement G. Yedjou**

*Cellomics and Toxicogenomics Research Laboratory, NIH-Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18540, Jackson, Mississippi, USA*

**PA - 29 Performance Characteristics of Hydride Generation for Determination of Heavy Metals by Icp-Aes**

**Shawntae Hughes and Zikri Arslan**

*Department of Chemistry, Jackson State University, Jackson, Mississippi 39217, USA*

**PA - 30 Effects of Sample Matrix and Heating Conditions on Volatility of Trace Elements**

**Domingos D. Afonso<sup>1</sup>, Zikri Arslan<sup>2</sup>, Anthony J. Bednar<sup>3</sup>**

*<sup>1</sup>Environmental Science PhD Program, College of Science, Engineering and Technology, Jackson State University, Jackson, Mississippi 39217 USA, <sup>2</sup>Department of Chemistry, Jackson State University, Jackson, Mississippi 39217 USA, <sup>3</sup>US Army Engineer Research and Development Center (ERDC), Waterways Experiment Station, Vicksburg, Mississippi 39180, USA*

**PA - 31 Effects of Heavy Metals (As, Cd, Hg, & Pb) on Cell Cycle of Breast Cell Lines.**

**LeByron Dennis<sup>1</sup>, Nadia Abou-Zeid<sup>1</sup>, Ali B. Ishaque<sup>1</sup>, Linda Johnson<sup>1</sup>, Kelly Mack<sup>1</sup>, Katherine Squibb<sup>2</sup>**

*<sup>1</sup>University of Maryland Eastern Shore, Department of Natural Sciences, Princess Anne, MD 21853  
<sup>2</sup>University of Maryland School of Medicine, Department of Epidemiology, Baltimore, MD 21201*

**PA - 32 Clastogenic Potential of Xenobiotics on Normal Breast Cancer Cells**

**Nadia Abou-Zeid<sup>1</sup>, Ali Ishaque<sup>1</sup>, Kelly Mack<sup>1</sup> and Katherine Squibb<sup>2</sup>**

*<sup>1</sup>University of Maryland Eastern Shore, Department of Natural Sciences, Princess Anne, MD 21853, USA  
<sup>2</sup>University of Maryland School of Medicine, Department of Epidemiology, Baltimore, MD 21201, USA*

**PA - 33 Light-Induced Toxic Effects by Tamoxifen: A Chemotherapeutic and Chemopreventive Agent**

**Shuguang Wang<sup>1</sup>, Lei Wang<sup>1</sup>, Jun-Jie Yin<sup>2</sup>, Peter P. Fu<sup>3</sup> and Hongtao Yu<sup>1</sup>**

*<sup>1</sup>Department of Chemistry, Jackson State University, Jackson, MS 39217; <sup>2</sup>Center for Food Safety and Applied Nutrition, U. S. Food and Drug Administration, College Park, MD 20740; <sup>3</sup>National Center for Toxicological Research, U. S. Food and Drug Administration, Jefferson, AR 72079*

**PA - 34**     **[The Study and Characterization of Hexachlorobenzene Effects on T Lymphocytes](#)**

**Lamar Reed**<sup>1</sup>, **Kenneth Ndebele**<sup>1</sup> and **Paul B. Tchnounwou**<sup>2</sup>

<sup>1</sup>*Cancer Immunology Research Laboratory, <sup>2</sup>Environmental Toxicology Laboratory, NIH-RCMI Center for Environmental Health, Environmental Science Ph.D. Program, College of Science, Engineering and Technology, Jackson State University, Jackson, Mississippi 39217. USA*

**PA - 35**     **[Cadmium-Induced Toxicity In Human Liver Carcinoma \(HePG<sub>2</sub>\) Cells](#)**

**Anthony C. Skipper**<sup>1</sup>, **Kenneth Ndebele**<sup>2</sup> and **Paul B. Tchnounwou**<sup>1</sup>

<sup>1</sup>*Molecular Toxicology Research laboratory, NIH-Center for Environmental Health, <sup>2</sup>Laboratory of Cancer Immunology. College of Science, Engineering and Technology, Jackson State University, 1400 Lynch Street, Box 18540 Jackson, Mississippi 39217, USA*

**PA - 36**     **[Possible Carcinogenic Effects of Perfluorooctanoic Acid \(Pfoa\) on Normal and Neoplastic Human Prostate Cells](#)**

**Terrence T. Wright**, **Dr. Barbara Graham-Evans**, **Dr. Kenneth Ndebele**, and **Dr. Paul Tchnounwou**

*Cancer Immunology and Environmental Research Laboratory, NIH-RCMI Center for Environmental Health, College of Science, Engineering and Technology, Jackson State University, Jackson, MS 39217, USA*

**PA - 37**     **[Functional Relatedness of Burkholderia Genomes](#)**

**Shelton Griffith**, **Wellington K. Ayensu** , **Hari H.P. Cohly** , and **Raphael D. Isokpehi**

*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217*

**PA - 38**     **[Automatic Extraction of Influenza Virus Pathogenicity from Biomedical Literature](#)**

**Raphael D. Isokpehi**, **Antoneicka L. Harris**, **Nyasha Chambwe**, **Tolulola Oyeleye**, **Cynthia D. Jeffries**, **Hari H.P. Cohly** and **Rajendram V. Rajnarayanan**

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<sup>2</sup>*Department of Chemistry, Tougaloo College, Jackson MS 39174*

**PA - 39**     **[Analyses of Multimodal Datasets on Salmonellosis Outbreak in the United States](#)**

**Christopher Jackson**, **Tolulola Oyeleye** and **Raphael D. Isokpehi**

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**PA - 40**     **[West Nile Virus Infection in Humans: Trends from 2003-2007 in Mississippi and its Neighboring States](#)**

**Gabrielle A. Cooper**, **Sean Scott**, **Nyasha Chambwe**, **Tolulola Oyeleye**, **Hari H.P. Cohly**, **Raphael D. Isokpehi**

*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217, USA*

**PA - 41**     **[Abundance of Universal Stress Protein Family in Finished Prokaryotic Genomes](#)**

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**Shaneka S. Simmons**<sup>1,2</sup>, **Raphael D. Isokpehi**<sup>1,2</sup>, **Dwayne J. Sutton**<sup>2</sup>, **Rajendram V Rajnarayanan**<sup>3</sup> and **Hari H.P. Cohly**<sup>2</sup>

<sup>1</sup>*Environmental Science PhD Program, Jackson State University, Jackson MS 39217* <sup>2</sup>*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217* <sup>3</sup>*Department of Chemistry, Tougaloo College, Jackson MS 39174, USA*

**PA - 42**     **Protein Domain Architecture of Cyanobacterial Sodium-Hydrogen Exchangers Containing The Universal Stress Protein Domain**

**Shaneka S. Simmons**<sup>1</sup>, **Hari H.P. Cohly**<sup>1</sup>, **Rajendram V Rajnarayanan**<sup>2</sup> and **Raphael D. Isokpehi**<sup>1</sup>

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<sup>2</sup>*Department of Chemistry, Tougaloo College, Jackson MS 39174*

**PA - 43**     **Functional Relatedness of Energy Rhodospseudomonas Palustris Genomes**

**Shaneka Simmons**, **Hari H.P. Cohly** and **Raphael D. Isokpehi**

*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217*

**PA - 44**     **Functional Relatedness of Yersinia Genomes**

**Shyrettha Brown**, **Wellington K. Ayensu**, **Hari H.P. Cohly** and **Raphael D. Isokpehi**

*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217*

**PA - 45**     **Text Mining for Translational Biomedical Research**

**Tolulola Oyeleye**, **Hari H. P. Cohly**, and **Raphael D. Isokpehi**

*Center for Bioinformatics & Computational Biology, Department of Biology, Jackson State University, Jackson MS 39217*

**PA - 46**     **Information Extraction on Salmonella Pathogenesis and Salmonella-Tomato Interactions from Biomedical Literature**

**Christina Bernard**<sup>1,2</sup>, **Nyasha Chambwe**<sup>2</sup>, **Tolulola Oyeleye**<sup>2</sup>, **Hari H.P. Cohly**<sup>2</sup>, and **Raphael D. Isokpehi**<sup>2</sup>

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**PA - 47**     **Bi-Clustering: Types, Algorithmic Approaches and Applications in Biology**

**Olivia Knight**<sup>1</sup> and **Raphael D. Isokpehi**<sup>2</sup>

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**PA - 48**     **[Functional Relatedness of Lactobacilli Genomes](#)**

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<sup>3</sup>Department of Chemistry, Tougaloo College, Jackson MS 39174

**PA - 49**     **[Functional Relatedness of Shigella Genomes](#)**

**Donee' McAllister**, Wellington K. Ayensu, Hari H.P. Cohly and Raphael D. Isokpehi

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**PA - 50**     **[Functional Relatedness of Bacillus Genomes](#)**

**Jennifer N. Sims**, Wellington K. Ayensu, Hari H.P. Cohly, and Raphael D. Isokpehi

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**PA - 51**     **[Assessment of the Macroenthic Invertebrate Abundance and Distribution In Three Mississippi Gulf Coast Bayous](#)**

**Jonathan Watkins**<sup>1</sup>, Paulinus Chigbu<sup>2</sup>, Paul Tchounwou<sup>1</sup>, Ibrahim Farah<sup>1</sup> and Marcus Sims<sup>1</sup>

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**PA - 52**     **[Functional Relatedness of Clostridium Genomes](#)**

**Jessica Bell**, Raphael D. Isokpehi, Wellington K. Ayensu and Hari H.P. Cohly

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**PA - 53**     **[Functional Relatedness of Brucella Genomes](#)**

**Juanquina D. Thomas**, Hari H.P. Cohly, Wellington K. Ayensu and Raphael D. Isokpehi

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**PA - 54**     **[Functional Relatedness of Mycobacterium Genomes](#)**

**Karen L. Saddler**, Wellington K. Ayensu, Hari H. P. Cohly and Raphael D. Isokpehi

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- PA - 55**     **[Chromium-Induced DNA Damage in Liver and Kidney of Goldfish, \*Carassius Auratus\*](#)**
- Venkatramreddy Velma, Anita. K. Patlolla and Paul. B. Tchounwou**
- Environmental Toxicology Research Laboratory, NIH-RCMI-Center for Environmental Health, College of Science, Engineering and Technology. Jackson State University, 1400 Lynch Street, Jackson, Mississippi, USA*
- PA - 56**     **[Hexavalent Chromium-Induced Oxidative Stress in Liver and Kidney of Goldfish, \*Carassius Auratus\*](#)**
- Venkatramreddy Velma and Paul B. Tchounwou**
- Environmental Toxicology Research Laboratory, NIH-RCMI Center for Environmental Health, College of Science, Engineering and Technology. Jackson State University, 1400 Lynch Street, Jackson, Mississippi, USA*
- PA - 57**     **[The Effects of Triclosan on Select Marine Algae Species](#)**
- Melanie N. McHenry, Vasile Suchar and Paulinus Chigbu**
- Department of Biology, Marine Science Program, Jackson State University, P.O. Box 18540, 1400 J.R. Lynch Street, Jackson, Mississippi, USA*
- PA - 58**     **[Proposed Research: Ecotoxicology and Risk Assessment of Mercury in the Grand Bay National Estuarine Research Reserve](#)**
- Melanie, McHenry-Johnson<sup>1</sup>, Zikri, Arslan<sup>1</sup>, Paul Tchounwou<sup>1</sup>, Yerramilli Anjaneyulu<sup>1</sup>, Mark Woodrey<sup>2</sup>, Winston Luke<sup>2</sup>, Dave Ruple<sup>2</sup> and MS. Christina Watters<sup>2</sup>**
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- <sup>2</sup>Grand Bay Reserve, 6005 Bayou Heron Road Moss Point, MS 39562, USA*
- PA - 59**     **[Hazardous Materials in Natural Disaster Debris](#)**
- Agnes Morrow<sup>1,2</sup> and Victor Medina<sup>2</sup>**
- <sup>1</sup>College of Science, Engineering and Technology, Jackson State University, <sup>2</sup>Engineering Research and Development Center, Environmental Lab, Vicksburg, MS, USA*
- PA - 60**     **[The use of Composted Poultry Litter as a Co-Substrate to Stimulate the Biodegradation of 2,4-Dinitrotoluene in Firing Range Soils](#)**
- Donetta McCullum<sup>1</sup>, Huey-Min Hwang<sup>1</sup>, Fiona Crocker<sup>2</sup>, Herb Fredrickson<sup>2</sup>, Scott Waisner<sup>2</sup>, Pat Deliman<sup>2</sup> and Jeffery Davis<sup>2</sup>**
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- <sup>2</sup>U.S. Army Research Engineer Research and Development Center, CEERD-EP, 3909 Halls Ferry Road, Vicksburg, MS 39180, USA*
-

**PA - 61**     **[Immobilization of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine \(Rdx\) by Plants](#)**

**Afrachanna Butler<sup>1</sup>, Victor Medina<sup>1</sup>, Maria Begonia<sup>2</sup>, Catherine Thomas<sup>3</sup> and John Furey<sup>1</sup>**

<sup>1</sup>U.S. Army Engineer Research and Development Center, Environmental Laboratory, 3909 Halls Ferry Road, Vicksburg, MS 39180, USA

<sup>2</sup>Plant Physiology Laboratory, College of Science, Engineering, and Technology, Jackson State University, 1400 J.R. Lynch Street, Jackson, MS 39217, USA

<sup>3</sup>Department of Biology, Environmental Science Ph.D. Program, College of Science, Engineering, and Technology, Jackson State University, 1400 J.R. Lynch Street, Jackson, MS 39217, USA

**PA - 62**     **[Effects of Cadmium, Chelates and Plant Growth Stage on the Phytoextraction of Cadmium-Contaminated Soil by Morning Glory \(Ipomoea Lacunosa\)](#)**

**Talia Sanders, Maria T. Begonia, Gregorio B. Begonia, Gloria S. Miller and Jennifer N. Ntoni**

Department of Biology, P.O. Box 18540, College of Science, Engineering and Technology, Jackson Ms 39217 USA

**PA - 63**     **[Changes in Phytochelatin Levels at Various Growth Stages of Wheat \(\*Triticum Aestivum\* L.\): Effects on Cadmium Tolerance and Bioaccumulation](#)**

**Jennifer N. Ntoni, Maria T. Begonia, Gregorio B. Begonia and Gloria S. Miller**

Department of Biology, P.O.Box 18540, College of Science, Engineering and Technology, Jackson, MS 39217 USA

**PA - 64**     **[Sugar Production from Degradation of Lignocellulosic Materials by \*Pycnoporus Cinnabarinus\* under Aerobic and Anaerobic Conditions](#)**

**Rose Kishinhi<sup>1</sup>, Gloria Miller<sup>1</sup>, Tasetta Hicks<sup>1</sup>, Ken Lee<sup>2</sup>, Huey-Min Hwang<sup>1</sup>, Gregorio Begonia<sup>1</sup> and Maria Begonia<sup>1</sup>**

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**PA - 65**     **[Effects of Bacterial Inoculation on the Growth and Lead Accumulation of \*Festuca Arundinacea\* Grown on Lead-Contaminated Soil](#)**

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**PA - 66**     **[Growth and Heavy Metal Accumulation of Plants Grown in Sterile and Nonsterile Soils](#)**

**Miriam Igboavodha, Tabitha Dasari, Tasetta Hicks, Maria Begonia and Gregorio Begonia**

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**PA - 67**     **[Sensitivity Modeling Study for a Ozone Occurrence during 1996 Paso Del Norte Ozone Campaign](#)**

**Duanjun Lu**<sup>1</sup>, Remata S. Reddy<sup>1</sup>, Rosa Fitzgerald<sup>2</sup>, William R Stockwell<sup>3</sup>, Quinton L Williams<sup>1</sup> and Paul B. Tchounwou<sup>1</sup>

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**PA - 68**     **[Microbiological Water Quality Assessment in Bayou Cumbest Mississippi](#)**

**Stephen S. Kishinhi**<sup>1</sup>, Paul B. Tchounwou<sup>1</sup>, Ibrahim O. Farah<sup>1</sup>, Mark Woodrey<sup>2</sup>, Dave Ruple<sup>2</sup> and Marcus Sims<sup>1</sup>

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**PA - 69**     **[Effects of Water Depth and Turbidity on Spectral Signature of Submerged Aquatic Vegetation](#)**

**Harene Natarajan**, **Philemon Kirui**, and Hyun Jung Cho

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**PA - 70**     **[Natural Selection on Nucleotide Composition of Plasmodium Falciparum](#)**

**Stephanie S. Hughes**<sup>1</sup>, Cedric O. Buckley<sup>1</sup>, Daniel Neafsey<sup>2</sup>

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**PA - 71**     **[Patterns of Abundance and Distribution of Groundfish and their Relation to Environmental Factors in the Northern Gulf of Mexico](#)**

**Natasha R. Magee**

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**PA - 72**     **[The Nutritional Condition of Urchins and its Effects on the Persistence of Urchin Barrens](#)**

**Eric Evans**<sup>1</sup> and Steven Gaines<sup>2</sup>

<sup>1</sup>Jackson State University, Department of Biology, University of California (Santa Barbara) Marine Science Institute and <sup>2</sup>Department of Ecology, Evolution, and Marine Biology

**PA - 73**     **[Sacharrification of Lignocellulosic Biomass by using Immobilized Cellubiase on Nanoparticles](#)**

**Sean Cook**, Peng Wang, Xiaoke Hu, and Huey-Min Hwang

Jackson State University; Departments of Biology, Jackson, MS 39217, USA

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**PA - 74**     **[Wastewater from Thermo Power Plant: Direct Impact on Water Quality of Sitnica River and Long Term Health Effects](#)**

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**PA - 75**     **[Does Climate Change Affects Health?](#)**

**Cassandra Patrick, Sophia Leggett, Julius Baham**

Trent Lott Geospatial and Visualization Research Center, School of Health Science, Jackson State University, 1400 J. R. Lynch Street P.O. Box 18540, Jackson Mississippi, USA

**PA - 76**     **[Baseline Smoking Status in the Jackson Heart Study Cohort](#)**

**Wendy B. White<sup>1</sup>, Marcy Petrini<sup>2</sup>, Daniel Sarpong<sup>3</sup>, Ramzi M. Kafoury<sup>1</sup>, Paul B. Tchounwou<sup>1</sup>, Kenneth Ndebele<sup>1</sup>**

<sup>1</sup>Jackson State University, Department of Environmental Science, <sup>2</sup>University of Mississippi Medical Center,

<sup>3</sup>Jackson State University, Jackson Heart Study, Jackson, MS.

**PA - 77**     **[Lewis Acid Promoted 1,3-Dipolar Cycloaddition Reactions in Water](#)**

**Lenore Hicks and Ashton T. Hamme II**

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**PA - 78**     **[Studies on the Synthesis of Spiroisoxazolines](#)**

**Erick D. Ellis, Jianping Xu, and Ashton T. Hamme II**

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**PA - 79**     **[Preparation of Cisplatin Complexes with Aromatase Inhibitor: Platinum Complex From Cisplatin and 4-\(2-Imidazolyl-Methyl\) Benzoate](#)**

**Don Gibson and Ken S. Lee**

Department of Chemistry, Jackson State University, Jackson, MS 39217

**PA - 80**     **[Electrochemical Degradation of Phenol on Boron Doped Diamond Electrode](#)**

**Feng Yujie<sup>1</sup>, Lv Jiangwei<sup>1</sup>, Peng Hongyan<sup>2</sup>, and Chen Yuqiang<sup>2</sup>**

<sup>1</sup>State Key Lab of Urban Water Resource and Environment, Harbin Institute of Technology, 202 Haihe Road, Harbin, China, 150090

<sup>2</sup>The physics department, Mudanjiang Teachers Colleges, Mudanjiang, China, 157012

**PA - 81**     **Aristolochic Acid Induced Oxidative Stress and Modulation of Bcl<sub>2</sub> in LLC-PK1 Cells**

**Zohreh Sirous, Clement Yedjou, John Jerkens, Abdulla Salahudeen, Paul Tchounwou**

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<sup>2</sup>*Department of Medicine at the University of Mississippi Medical Center, Jackson, Mississippi, USA*

**PA - 82**     **Examining the Formation of Peptide Amphiphile Micelles**

**Ameera Haamid<sup>1</sup>, Rachel Marullo<sup>2</sup>, Amanda Trent<sup>2</sup>, and Matthew Tirrell<sup>2</sup>**

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**PA - 83**     **Exploring the Functional Decapping Ability of The Dogfish Shark Nudt16 Homolog**

**Brittney Davis<sup>1</sup>, Melissa Taylor<sup>2</sup> and Brenda Peculis<sup>2</sup>**

<sup>1</sup>*Chemistry Department, College of Science, Engineering and Technology, Jackson State University, 1400 JR Lynch Street, Jackson, Mississippi, 39217, USA*

<sup>2</sup>*University of Missouri at Columbia, Columbia, Missouri, USA*

**PA - 84**     **Alpha 2-Hs Glycoprotein (Fetuin-A) Enhances Murine Mammary Tumor Growth**

**Yakisha Partee<sup>1</sup>, B. Guillory<sup>2</sup> and J. Ochieng<sup>2</sup>**

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**PA - 85**     **Expression Profiling of Genes Encoding Aquaporins and Universal Stress Proteins in Rice Exposed to Arsenic**

**Matilda O. Johnson<sup>1</sup>, Rajendram V. Rajnarayanan<sup>2</sup>, Raphael D. Isokpehi<sup>1</sup>, Asit Panja<sup>3</sup>, Soam Prakash<sup>4</sup>, Omotayo R. Awofolu<sup>5</sup>, Hari H.P. Cohly<sup>1</sup>**

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