

O - 01 Insoluble Nickel Compounds Cause Gene Amplification and Gene Silencing, Disrupting 15 Signal Transduction Pathways, Leading to Differential Expression of 144 Genes and Morphological, A. I., and Neoplastic Transformation of C3H/10T1/2 Mouse Embryo Cells

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O - 02 Using Zebrafish to Understand Mechanisms of Benzo[A]Pyrene

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O - 03 Estrogen Receptor Independent Toxic Mechanism of Chlorpyrifos and Chlorpyrifos Oxon in Human Breast MCF-7 Cells

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O - 04 Premarket Evaluation of the Safety of New Food and Color Additives

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O - 05 A Novel Target in the Treatment of Colorectal Cancer; CRD-BP

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O - 06 How does Chromium(III) Bind DNA?

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O - 07 NF- κ B and p38/MAPK Modulation of the Inflammatory Response in Human A549 Airway Cells and TIB-73 Mouse Hepatocytes Exposed to Pentachlorophenol

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O - 08 Functionalization of a Copper-Containing Nano-Biocomposite for Subsequent Degradation and Biomedical Control

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O - 09 “Honorary Biomedical Sciences and Health Information Lecture Series”

A Whale of a Tale: Lessons from Moby Dick's Descendants about Global Chromium Pollution

John Pierce Wise, Sr., John Pierce Wise, Jr., James T. F. Wise, Catherine F. Wise, Sandra S. Wise, Cynthia Browning, Julieta Martino, and Tania Li Chen

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O - 10 Development of a SERS Probe for Selective Identification of Cancer and Drug Resistance Bacteria

Paresh C Ray, Avijit Pramani, Stacy Jones, Salma Begum and Carrie Sweet

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

O - 11 Design, Antitumor and Other Biological Activity of Quadruple-Bonding Cluster Dirhenium(III) Compounds and their Synergism with Cisplatin

Natalia Shtemenko¹ and Alexander Shtemenko²

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²*Department of Inorganic Chemistry, Ukrainian State University of Chemical Technology, Gagarin av.8, Dnipro 49005, Ukraine*

O - 12 Adverse Effects of Chronic Exposure to Arsenic in Kidney Epithelial Cells

Kamaleshwar P Singh and Yu-Wei Chang

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O - 13 Hepatotoxicity and Oxidative Stress Induced by Graphene Oxide in Sprague-Dawley Rats

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O - 14 Exploring Ligand and Structure Based Modeling for Endocrine-Disrupting Response Prediction of Per- and Polyfluoroalkyl Substances

Supratik Kar¹, Maria S. Sepúlveda², Kunal Roy³ and Jerzy Leszczynski¹

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³Drug Theoretics and Cheminformatics Laboratory, Department of Pharmaceutical Technology, Jadavpur University, Kolkata-700032, India

O - 15 Removing Uranium(VI) from Aqueous Solution and Soils with Leonardite-Derived Humic Acid and with Phytoremediation

Fande Meng¹, Zikri Arslan¹, Fengxiang Han¹, Guodong Yuan², Steven Larson³, John Ballard³ and Charles Waggoner⁴

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⁴Mississippi State University, Mississippi State, MS 39762, USA

O - 16 Functional Characterization and Comparative Metagenomics of Indigenous Bacteria Isolated from the San Jacinto River for Biodegradation of Recalcitrant Chlorinated and Non-Chlorinated Aromatic Waste

Rupa Iyer¹, Brian Iken¹ and Ashish Damania²

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²Department of Pediatrics-Tropical Medicine, Baylor College of Medicine, Houston, Texas, 77030, USA

O - 17 Intensity of Indoor Radon (²²²Rn) in Family Homes in Aldama, Chihuahua, Mexico and the Relationship to Lung Cancer

Hector Rubio-Arias¹, Luis H. Colmenero-Sujo², Jesus Ochoa-Rivero³, Maria de Lourdes Villalba⁴ and Beatriz A. Rocha-Gutierrez⁵

¹Faculty of Zootechnic and Ecology, ²Technological Institute of Chihuahua II, ³National Research Institute for Agriculture, Forest and Animal Production, ⁴Faculty of Engineering, ⁵Faculty of Chemical Sciences. Autonomous University of Chihuahua, Escorza No. 900, Colonia Centro, Chihuahua, Chihuahua, Mexico. CP:31000.

O - 18 Cameroon's Ecosystems and Possibilities for Sustainable Development: Challenges and Perspectives

Nole Tsabang^{1,4}, Clément G. Yedjou², Evariste F. Fongnzossi³, René B. Jiofack⁴, Denis Sonwa⁵, and Paul B. Tchounwou⁶

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O - 19 Mapping the Genomic and Immunomic Landscape of Triple Negative Breast Cancer using Multi-omics and Sequence Data

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O - 20 The Effects of TNF α on MIR-181A and MIR-1 in A549 Lung Cells

Maricica Pacurari

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O - 21 Chemoprotective Role of Diphenyl Diselenide and Quercetin in Drosophila Melanogaster and Rat Models of Manganese-Induced Neurotoxicity

E. Olatunde Farombi and Isaac A. Adedara

Molecular Drug Metabolism and Toxicology Research Laboratories, Department of Biochemistry, College of Medicine, University of Ibadan Nigeria

O - 22 Sex Disparity in Benzo(a)Pyrene [B(a)P] – Induced Colon Carcinogenesis

Kenneth J. Harris¹, Kelly L. Harris¹, Anthony E. Archibong², Mary K. Washington³, James Amos-Landgraf⁴, Samuel E. Adunyah¹ and **Aramandla Ramesh**¹

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O - 23 Environmental Signaling as a Model to Integrate Diverse Environmental Factors at the Mechanistic Level

John A. McLachlan

Department of Pharmacology, Tulane University School of Medicine, New Orleans, LA, USA

O - 24 Essential Role of Gia2 Protein in Migration of Prostate Cancer Cells

Shafiq A. Khan

Center for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA, USA

O - 25 Serum Biomarkers in Cancers of the Head and Neck

Sunali Khanna

Asian Academy of Oral & Maxillofacial Radiology, Member, National Academy of Medical Sciences, Nair Hospital Dental College, Municipal Corporation of Greater Mumbai, 400008, India

O - 26 Inhibition of CCL2 release as a Novel Method to Prevent Metastasis in Triple Negative Breast Cancer

Karam F.A. Soliman

Center of Excellence for Cancer Research, Training and Community Service, College of Pharmacy and Pharmaceutical Sciences, Florida A & M University, Tallahassee, Florida 32307, USA

O - 27 Pre-Clinical Evaluation of Cinobufotalin as a Potential Anti-Ovarian Cancer Agent

M. Nasir Uddin

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O - 28 Neuroprotective and Regenerative Roles of Intranasal Wnt-3a Administration after Focal Ischemic Stroke in Mice

Zheng Zachory¹, Wei¹, James Ya Zhang¹, Tammi M Taylor^{1,2}, Xiaohuan Gu, Yingying Zhao¹ and Ling Wei¹

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O - 29 “Honorary Biomedical Sciences and Health Information Lecture Series”

The Role of Extracellular Vesicles in Breast Cancer: A Potential Antitumor Peptide

Ming Bo Huang, Ruben R. Gonzalez-Perez, James Lillard and Vincent C. Bond

Department of Microbiology, Biochemistry, and Immunology, Morehouse School of Medicine, Atlanta, Georgia, 30310, USA

O - 30 Strategies to Evaluate the Effect of Chemotherapeutic Drugs and Curcumin in Breast Carcinogenesis

Gloria M. Calaf^{1,2}, Marcela Gallardo¹ and Richard Ponce-Cusi¹

¹*Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile*

²*Center for Radiological Research, Columbia University Medical Center, New York, NY, USA*

O - 31 Biochemical, Physiological, and Clinical Evidence for Efficacy of *V. Amygdalina* Extracts as Treatment and/or Prophylaxis For Breast/Prostate Cancers

Ernest B. Izevbogie^{1,2}, Xuan Luio³ and Ken S. Lee³

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²*Molecular and Cellular Signaling Laboratories, Jackson State University, Jackson, Mississippi, USA*

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O - 32 Ectopic over Expression of Aryl Hydrocarbon Receptor (AhR) Induces Androgen Independent Signaling in LNCap Prostate Cancer Cell Line

Maryam Ghotbaddini and Joann B. Powell

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O - 33 Polyhexamethylene Biguanide Bears Similar Mode of Action to Anti-Diabetes Biguanides

Edmond E Creppy¹, Aboudoulatif Diallo^{1,2}, Serge Moukha¹ and Pascale Dozolme¹

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²*University of Lomé, Faculty of Health Sciences, (FSS) Toxicology Department, Lomé, (Togo).*

O - 34 Biomarkers for Neonicotinoid Insecticides Toxicity in Exposed Rats

Mohamed-Bassem A. Ashour¹, Shimaa Gh. M. Marzouk², Ali A. El-Sheakh² and Mostafa A. El-Tantawy¹

¹*Molecular and Environmental Toxicology Research Laboratory, Plant Protection Department, Faculty of Agriculture, Zagazig University, Zagazig-44511, Egypt*

²*Plant Protection Research Institute, Agricultural Research Center, Dokki, Egypt*

O - 35 Environmental Health Research at the University of Puerto Rico Medical Sciences Campus

Emma Fernández-Repollet

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O - 36 Modeling Approaches to Understand and Reduce *Salmonella* Infections in Egg-Laying Hens and Humans

H Anwar Ahmad¹ and Luma Akil²

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O - 37 Cellular Glycolysis and the Differential Survival of Lung Fibroblast and Lung Carcinoma Cell Lines

Ibrahim O. Farah

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O - 38 Spatio-temporal Variation of PM_{2.5} Concentrations and its Possible Health Impacts in a Mega City, Delhi in India

Amit Kr. Gorai¹, Paul B. Tchounwou² and Francis Tuluri³

¹*Department of Mining Engineering, National Institute of Technology, Rourkela, Odisha -769008, India.*

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³*Department of Civil and Environmental Engineering and Industrial Systems and Technology, Jackson State University, Jackson, MS 39217, USA*

**O - 39 “Honorary Biomedical Sciences and Health Information Lecture Series”
Banquet Speaker**

Sustainable Development Goals: Will They Ensure Universal Health Coverage in Low and Medium-Income Countries, to Achieve Global Health?

Stella Anyangwe

Health Policy and Management Track, School of Health Systems and Public Health, Faculty of Health Sciences, University of Pretoria, Private Bag x20, Hatfield, Pretoria 0028, Republic of South Africa.

O - 40 Mitigating Health Disparities in the Era of Big Data

Daniel F. Sarpong

Center for Minority Health & Health Disparities for Research & Education., New Orleans, LA 70125, USA

O - 41 Trends in HIV Infection in Blood Donors in a Hospital Blood Bank of Yaoundé, Cameroon

Dora N. Mbanja, A. Ndoumba Mintya and C. Tayou Tagny

Faculty of Medicine & Biomedical Sciences, University of Yaoundé I, and Yaoundé University Teaching Hospital, Cameroon

O - 42 A Pound of Prevention is Worth a Ton of Cure: The Burden of Preventable Cancers in Mississippi

Roy J. Duhe

Department of Pharmacology and Toxicology, Department of Radiation Oncology, UMMC Cancer Institute, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505, USA

O - 43 Progression of Metabolic Syndrome in Relation to Depression Symptoms and High Sensitivity C-Reactive Protein: The Bogalusa Hearth Study

Azad R Bhuiyan¹, Marinelle Payton¹, Sophia S. Leggett¹, Sathanur R. Srinivasan² Jihua Xu² and Gerald S. Berenson³

¹Jackson State University School of Public Health, Jackson, MS, USA

²LSU Health Sciences Center, New Orleans, LA, USA

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O - 44 Effects of Resistant Starch Ingestion on Postprandial Lipemia in Overweight and Obese Subjects

Ble-Castillo JL¹, Juarez-Rojop IE¹, Tovilla-Zarate CA², Garcia-Vazquez C¹, Arias-Cordova Y¹, Boldo-Leon XM¹, Avila-Fernandez A¹ and Olvera-Hernandez V¹

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O - 45 Environmental Health, the Impact of Pesticides and Women's Health - Report of Events and Situation in the State of SP/Brazil

Telma Nerv¹, Rogerio Christensen² and Gécica Rodrigues³

¹Health Institute and University Center S. Camilo; ²Superintendent of Control of Endemics (SUCEN), Sao Paulo, Brazil ³University Center S. Camilo, Sao Paulo, Brazil

O - 46 Resurgence of Yellow Fever as a Potential Problem of Public Health in Brazil in 2017

Marcio R. Barbosa

Institute Center of Teaching and Research (CONEP) of Santa Cruz Hospital – Sao Paulo-Brazil

O - 47 Environmental Risk Stratification of Censored Data using a Weibull Proportional-Hazards Model

Jimmy T. Eford

Center for Clinical Epidemiology and Biostatistics, University of Newcastle, 1 Kookaburra Circuit, New Lambton, Australia, NSW 2305, and Office of the Dean (Research), Health Sciences Building, ECU College of Nursing, Greenville, NC 27858, USA

O - 48 Can *Abelmoschus esculentus* (Okra Fruit) Mucilage Protect Human Spermatozoa from Frost Bite?

Anthony E. Archibong¹ and Melanie Freeman²

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O – 49 The Astonishing Role of Soil in Lead Exposure of Children: Hurricane Katrina's Lessons

Howard W. Mielke, Christopher R. Gonzales and Eric T. Powell.

Tulane University School of Medicine, New Orleans, Louisiana, USA

O – 50 The Paradox of Environmental Poisonous Gases: From the Rotten Egg Hydrogen Sulfide to Gasotherapeutics at the Bedside

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