
O - 01 Insoluble Nickel Compounds Disrupt Global Gene Expression, Inducing Morphological, A.I., and Neoplastic Transformation of C3H/10T1/2 Mouse Embryo Fibroblasts

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O - 02 Harnessing Big Data to Map the Genomic Landscape of Triple Negative Breast Cancer

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O - 03 The Effects of the Glycation of Transferrin on Chromium Binding and the transport and Distribution of Chromium in Vivo

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O - 04 Chromatin Structural Changes and Function in Inorganic Arsenic-Mediated Cellular Transformation

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O - 05 Arsenic Induces the Highly Carcinogenic Polyadenylation of Canonical Histone mRNA by Downregulating Stem-Loop Binding Protein

Max Costa

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O - 06 Activation of L1 by Heavy Metal Exposure: Mechanistic Insights

Astrid M. Roy-Engel, Madeline Sell, Rebecca S. Derbes, Servant Geraldine and Maria E. Morales

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O - 07 Selective Zinc Finger Protein Oxidation and Arsenic Carcinogenesis

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O - 08 Trombospondin-1 and MicroRNA-1 Regulation by MWCNT in Alveolar Epithelial Cells

Maricica Pacurari

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

Regulatory Science Relevant to Nanomaterials: Biological and Physico-Chemical Evaluation of Immobilized Nanostructures

José A. Centeno and Girish Kumar

US Food and Drug Administration, Center for Devices and Radiological Health, Office of Science and Engineering Laboratories, Division of Biology, Chemistry and Materials Science, White Oak Campus, Silver Spring, MD, USA

O - 10 Multifunctional Nanoprobes for Elucidating Phenotype Heterogeneity of Circulating Tumor Cells

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O - 11 Evaluation of Chemical Biomarkers in Selected Tumors with Different Grade of Malignancy

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O - 12 Toxicity Evaluation of Graphene Oxide in Kidneys of Sprague-Dawley Rats

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O - 13 New Metal Ions in Cancer Research

Gerald Bastian

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O - 14 Evaluation of Potential Toxicity of Pyridalyl Exposure in Albino Rats and Earthworms using Biological and Biochemical Parameters

Mohamed-Bassem A. Ashour, Refat M.Sherif, Didair A. Ragheb, Mohamed Y. Hendawi and Mahmoud M.Yousef¹

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O - 15 Getting the Lead in, out, and Beyond: Hurricane Katrina and Dynamic Temporal and Spatial Changes in New Orleans

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O - 16 Development of Patient Population-Specific Cancer Molecular Biomarkers

Upender Manne

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O - 17 Method Development for the Analysis of a Group of Emergent Pollutants (PBDES) in Sewage Sludge using (HSSPME-GC-MS)

Brenda Mejía¹, Ma. del Rosario Peralta-Pérez¹, Ma. de Lourdes Ballinas-Casarrubias¹, Javier Zavala-Díaz de la Serna¹, Luis de la Torre-Saenz² and Beatriz A. Rocha-Gutiérrez¹

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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 Mobile Elements as a Source of Environmentally Sensitive Genetic Instability

Prescott Deininger, Maria Morales and Astrid Engel

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O - 20 Co-exposure to Arsenic and Estrogen Potentiates Genotoxic Estrogen Metabolic Pathway

Kamaleshwar P Singh

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O - 21 Relevance of Trace Elements in Initiation and Progression of Oral Cancer

Sunali Khanna¹, A. C. Udas², G. KiranKumar² and S. Soundarajan²

¹*Dept of Oral Medicine & Radiology, Nair Hospital Dental College, Mumbai, 400008 India*

²*Dept of Analytical Chemistry, Bhabha Atomic Research Centre, Mumbai, 400085, India*

O - 22 Development of Standardized and Fortification Botanical Agent as Treatment and/or Prophylaxis for Breast Cancer

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²*Molecular and Cellular Signaling Laboratories and Department of Chemistry & Biochemistry, Jackson State University, Jackson, Mississippi, USA*

O - 23 Role of Cell Fusion in Cancer Progression and Metastasis

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O - 24 The Complexity of Low Dose Radiation Health Effects: Risk and Non-Targeted Radiation Effects

Alexandra Miller

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O - 25 Role of Diet in Biotransformation and DNA Adduct Formation in Environmental Toxicant-Induced Colon Carcinogenesis

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²*Department of Pathology, Vanderbilt-Ingram Cancer Center, Nashville, TN 37232, USA*

O - 26 Drugs and Curcumin Inhibit Epithelial-Mesenchymal Transition in Breast Carcinogenesis

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O - 27 Molecular Pathogenesis of Preeclampsia and its Potential Therapeutics

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O - 28 Why Tumors Induced by PHMB Rats might not be Relevant in Humans

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

The Potential of Natural Lactate Dehydrogenase Inhibitors for Cancer Therapy

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, FL 32307, USA

O - 30 Copper Complexes with Oligopeptides as Novel Candidates against Breast Cancer. Biochemical vs Biological Assays

María H. Torre¹, **Lorena Aguilar**¹, **Natalia Alvarez**¹, **Gianella Facchin**¹ and **M. Gabriela Kramer**²

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O - 31 Chemo Preventive Phytochemicals as Speed Breakers in Inflammatory and Stress Signaling Involved in the Journey to Cancer: A Case for Protocatechuic Acid and 6-Cingerol

Ebenezer O. Farombi

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O - 32 Incorporating a Gold binding Peptide into a Uranium-binding Antibody Fragment

Grace A. Jairo, Bhupal Ban and Diane A. Blake

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O - 33 Advancing the Understanding of Human Placenta Development and Function from Gene Family Expression Data

Raphael D. Isokpehi¹, Jasmin Fryer¹, Antoinasha Hollman², Brandon Clark¹, Rickeisha Hamilton¹, Jerome Garrett¹, Karla Dunklin¹, Abraham DaSilvio¹, Raenell Dorsey¹, Mickael Hobbs¹, Tashmay S. Jones¹, Zachary Olszewski¹, Ashley Turner¹, Hughleia Solomon¹, Aneesha Baker¹, Matilda O. Johnson³, Katharina C. Wollenberg Valero¹, Hung-Chung Huang², Paul B. Tchounwou² and Oyekanmi Nash⁴

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O - 34 Cancer Mortality Trends in Mexico: A Specific Analysis of the State of Chihuahua

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O - 35 Developing Excel Based Meta-Analysis Models for the Hepatitis-C Studies

H. Anwar Ahmad and Luma Akil

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O - 36 Enteric Virus Pollution in the Basasseachic Waterfall National Park Well Water

Ma. Carmen E. Delgado-Gardea^{1,2}, Mendieta-Mendoza A¹, Patricia Tamez-Guerra², Ricardo Gomez-Flores², Francisco Javier Zavala-Díaz de la Serna¹, Gilberto Erosa-de la Vega¹, María Concepción Pérez-Recoder³, Blanca E. Sánchez-Ramírez¹, María del Carmen González-Horta¹ and Rocío Infante-Ramírez¹

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O - 37 Common Statistical Errors in Experimental Toxicology Issues Related to Replication

Wayne E. Briner and Jeral Kirwan

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O - 38 Analyzing the Role of Air Pollution and Meteorology on Asthma Prevalence using a Poisson Regression Model: A Case Study of Gulfport Region, Mississippi, USA

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O - 39 Water Quality of the Laguna de Bustillos in Chihuahua, Mexico

Jesus Manuel Ochoa-Rivero¹, Beatriz Adriana Rocha-Gutierrez², Ana Victoria Reyes Fierro², Hector O. Rubio-Arias², Maria de Lourdes Ballinas-Casarrubias², Eutiquio Barrientos Juarez¹ and Celia de la Mora-Orozco⁴

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**O - 40 “Honorary Biomedical Sciences and Health Information Lecture Series”
Banquet Speaker**

The Conundrum of the Environment and Health: A Review of the Devastating Impact of El Nino, and its Management, in East and Southern Africa

Stella Anyangwe¹ and Kalula Kalambay²

¹*School of Health Systems and Public Health, Faculty of Health Sciences, University of Pretoria, Private Bag X20, Hatfield, Pretoria 0028, South Africa*

²*Independent Public Health Consultant, Quebec, Canada*

O - 41 Genomic Surveillance Facilitates Ebola Virus Containment and Elucidates Origin, Transmission and Evolution during the 2014 Outbreak

Christian Happi¹ and ACEGID²

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O - 42 The Role of Predictive Analytics in Addressing Health Disparities

Daniel F. Sarpong

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

O - 43 Analysis of Factors Contributing to Mississippi's Geographic Disparities in Colorectal Cancer

Roy J. Duhe

Department of Pharmacology and Toxicology, Department of Radiation Oncology, UMMC, Jackson, MS 39216, USA

O - 44 Discovery of Susceptibility Genes Loci for Airway Diseases via Expression Quantitative Trait Loci (EQTL) Analyses for Gene-Environment Interaction Studies

Hung-Chung Huang, Ramzi Kafoury and Paul B. Tchounwou

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O - 45 Public Policies on Environmental Health – Climate Change and Impacts on Health – Reports of Cases in Sao Paulo State with 44 Million People (Brazil) from 2010 to 2016

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O – 46 HIV and Hepatitis C Co-Infection in a Cameroonian Population

D. N. Mbanya^{1,2,3}, Agbor V. Ndiip¹, Tagny C. Tayou^{1,2}, J. B. Kemmegne³, B. Awazi³, C. Ngansop^{1,3} and N. Ndemb⁴

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³Society for Women and AIDS in Africa, Cameroon

⁴Institute of Human Virology, Abuja, Nigeria

O – 47 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 and Gerald S. Berenson³

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O – 48 The Protect Superfund Research Program and Center for Research on Early Childhood Exposure and Development in Puerto Rico: Community Engagement and Research Translation in Puerto Rico's Northern Karst Region

Carmen M. Vélez Vega¹, José F. Cordero², Colleen Murphy¹, Phil Brown³, Abigail Figueroa¹ and Akram Alwabashk³

¹University of Puerto Rico, ²University of Georgia and ³Northeastern University

O – 49 Expansion of Aboviroses with Pandemic Characteristics in the South American Continent: Challenges and Decisions

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O – 50 Recovery and Functional Characterization of Cryopreserved Rhesus Monkey Spermatozoa

Anthony E. Archibong

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O – 51 Environmental Exposure of Heavy Metal Lead to Children, P. R. China: An Investigation from Systematic Literature

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