



POSTER PRESENTATIONS

Poster Titles Organized Alphabetically

A Whole-Cell Biosensing System for the Detection of a Novel Quorum Sensing Molecule

Michael Moraskie, Gregory O'Connor, Sapna K. Deo, Sylvia Daunert

Adapting our adaptations: understanding climate change risk and resilience through people living with spinal cord injury (PwSCI)

David W. McMillan

Ambient environmental conditions and nontuberculosis mycobacterium species and cases around Miami, Florida

Samantha Abelson

An assessment of climate-sensitivity and awareness of the Spinal Cord Injured Community, Caregivers, and the General Public in Miami, Florida.

Danielle Bass, Pardis Ghamasae, Ana Karen Bolanos, Mandeville Wakefield, Daniel Samano

Are outpatient healthcare settings climate-sensitive? A regional weather scenario of past, and present, and future healthcare

Daniel Samano, Danielle Bass, Lunthita Duthely

Bio-inspired genetically engineered approach for resilient coastal infrastructure

Sadegh Tale Masoule, Ali Ghahremaninezhad

Building Resilience to Exertional Heat-Related Illnesses

Paul Gonzales, Alia Lescaille, Greta Mitzova-Vladinov, Eugene S Fu, & Mary McKay

Carbon Sequestration

Andrew Aidman

Chaos Engineering and Impacts to Public Health across Multiple Phases of a Disaster

Austin Perry

Climate Change: A Hairy Situation

Tara Samra

Climate Gentrification: Designing A Comprehensive Assessment Tool of Historical, Social, and Geographic Factors to Guide Actionable and Equitable Neighborhood Resilience

Robin Bachin, Megan Donovan, Ana Villamizar, Imelda Moise, Abigail Fleming, Cameron Riopelle, Joelle Dorsett, Jennifer Posner

Community Participatory Modeling in the context of Cultural Landscapes

Nina Jean-Louis

Designing of Room Temperature Stable Bioluminescent COVID-19 Spike Antigen Immunoassay

Sherwin Reyes

Did Exposure to Hurricane Andrew (1992) Influence Survival among People Diagnosed with Cancer? A 20-Year Retrospective Study

Kilan Ashad-Bishop

Disaster Preparedness for Climate-Driven Hurricanes for Patients with End-Stage Kidney Disease

Rebecca Shakour

Disruption of Circadian Clock Promotes Vulnerability of Brain Endothelial Cells to Environmental Stress through Modification of Tight Junctions

Timea Teglas, Silvia Torices, Desiree Coker, Madison Taylor, Michal Toborek

Economic Disparities and Access to Basic and Healthcare Resources in the Aftermath of Hurricane Ian

Walter A Ramsey, Anton Stremousov, Marina Santos Morais, Laney Bloch, Naresh Kumar

Efficacy of an Air Quality Intervention in a Miami Night Club and the Toxicity of E-Cigarette Exposure

Emmanuel Gorrin

Energy-efficient Multi-access Edge Computing for Improved Climate Resilience via a Data-driven Energy Management Framework

Temitope Runsewe

Engineered *Bacillus subtilis* to function as a portable biosensing system for bioavailable copper (II) and as a bioremediation tool for environmental pollutants

Harun Roshid

Evaluating Florida Wildland Firefighters' Respirable and Dermal Polyaromatic Hydrocarbon Exposures during Prescribed Burns

Umer Bakali

Exploring the Health Implications of Climate Driven Harmful Algal Bloom Aerosol and Methodology for a New Personal Passive Air Sampling Device

Raquel Chenail

Fostering Resiliency through Learning: Creating a "Floating Library" for Children Impacted by Humanitarian Disasters in the Bahamas

Anjali Saxena, Didi Bertrand Farmer, Jessica Lemma, Samantha Gonzalez, Vincent Torres, Elizabeth Greig, Barth Green

Future-Proofing Septic Systems to Sea-Level Rise: Resilience Assessment and Adaptation Planning

Lamis Amer

"Green" Anesthesia at "Green U"

Gabrielle Hooper, Charles Thuo

Heat Stress and Pregnancy Outcomes

Venkata Madhavi Latha Telagarapu, Naresh Kumar

Impact of Air Pollution and Heat Stress on Gene Expressing Related to Autism and Intellectual Disabilities

Clemer Abad

Impact of Financial Disparities on Access to Basic and Healthcare Resources Following Hurricane Ian: A Retrospective Analysis

Walter A. Ramsey MD, Anton Stremousov, Marina Santos Morais, Laney Bloch, Naresh Kumar

Indoor Meteorological Conditions, Air Quality and Ocular Surface Health

Johnathon Penso

"Leaves are cool!" Implementation and evaluation of a comprehensive citizen science program for climate change education

Olga Tserej

Long-term patterns of tree growth in South Florida

Manuel Bernal-Escobar

Miami Trees Can't Deal with Increased Temperatures in Urban Heat Islands

Alyssa T. Kullberg

Optimization of Distributed Generation in Microgrid Clusters for Facilitated Deployment of Renewable Energy Sources and Climate Resilience

Abdurrahman Yavuz

Perspectives of Southeastern Floridians living with spinal cord injury (SCI): hurricane and associated flood preparedness and navigation

Austin Joshua Wells

Point-of-Care Platform for Monitoring Emerging Pathogens

Spencer Seely

Porous Foundations: Scientific Holes in South Florida's Social Ecological Systems and the Clean Water Act

Matt Ellis-Ramirez

Potential Effects of Tropospheric Ozone on COVID-19 Incidence in the United States

Jenna Pulice

Rapid bioanalytical screening for the assessment of internalized exposure to Polycyclic Aromatic Hydrocarbons and epigenetic modification in clinical samples of Florida Firefighters

Marshley Stewart

Real-Time Monitoring of Polycyclic Aromatic hydrocarbons using Solid State Sensors

Chitvan Killawala

Regional Weather Events and Outpatient Clinics: A Conceptual Framework of Physical Therapy/Physical Medicine and Rehabilitation

Nathan Rhodes-Zambrana, Danielle Bass, Chelsea Miller, Daniel Samano

Rising temperatures will make Miami's street life even more exotic

Lina Aragón and Jacqueline Ballantyne

Season-stratified effects of meteorological factors on asthma in Miami

Haoyue Sheng, Naresh Kumar

Teaching Climate Resilience in Higher Education: Evaluation of a Critical Innovative Approach

Ryan Schooley

Termites' role as promoters of soil nutrient composition and gas flux in the Brazilian Savanna

Yuri Souza

The Detrimental Effects of Microplastics on Zebrafish Embryos

Maren Valente and Ananya Singh

The Nexus of Cancer Incidence and Climate Change: A Case Study of Miami-Dade County

Megan Donovan, Till Krenz, Ming Lee, Jen Posner, Erin Kobetz, and Robin Bachin

Toxicity of Real-World Fine Particulate Matter – Implications for Systemic Toxicity of Intensifying Air Pollution Exposure in Response to Climate Change

Jayro Toledo

Understanding mechanisms of nanoparticle accumulation in the brain to develop engineered nanotherapeutics platform for targeting environmentally induced brain cancers

Isabella Lopez

Urban Heat Exhaustion and Classical Heat Stroke - Increasing Awareness of Miami-Dade County's First Responders and Healthcare Workers

Alia Lescaille, Paul Gonzales, Greta Mitzova-Vladinov, Mary McKay

Using Aquatic Ecology and GIS Analysis To Guide Recovery of the Endangered Santa Cruz Long-toed Salamander in the Face of Sea Level Rise

Leyna Rose Stemle

Using Proximity Ligation to Uncover the Hidden World of Viral Infections in Coral Reefs

Natascha Varona

Utilizing the design charrette for informing forecast product redesign

Scotney Evans, Barbara Millet, Alberto Cairo, Brian McNoldy, Sharanya J. Majumdar, Kenneth Broad