

Environmental Health Sciences - Seminars 2024/25

Course [PHC 6921 - U01 \(15839\)](#)

Director: Roberto Lucchini <rlucchin@fiu.edu>

Assistant: Javier Choque <jchoque@fiu.edu>

Time: Thursdays from 11:30am to 01:00pm

Location: AHC5-500 or AHC5-300

<https://fiu.zoom.us/j/82657210478?pwd=Tk9YK0V2a1pEY3ZCK202WUh5NTVCQT09>

Meeting ID: 826 5721 0478

Passcode: EHS2024

SLIDES AND VIDEO PRESENTATIONS posted in the lists below must be treated as confidential

| Date | Speaker | Title |
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| 09/05/24 | Janvier Gasana Global Applied Prevention Center, South Florida | <i>Global Lead Exposure - Legacy Lead in the US and Abroad</i> |
| 09/12/24 | Davide Marotta International Space Station National Laboratory | <i>Neurodegeneration and neuroscience studies on the International Space Station</i> |
| 10/03/24 | Tony Fletcher London School of Hygiene & Tropical Medicine | PFASS - To be confirmed |
| 10/10/24 | Alberto J Cabana-Martinez Department of Public Health Sciences, UM | Cancer among Firefighters - To be confirmed |
| 11/07/24 | Andrea Baccarelli Dean of the School of Public Health, Harvard University | Endocrine Disruptor Chemicals - to be confirmed |
| 11/14/24 | Karin Broberg Environmental Health, Karolinska Institutet, Stockholm, Sweden | Gene-Environment interactions - To be confirmed |
| 12/05/24 | Erin Haynes Department of Epidemiology and Environmental Health, University of Kentucky | Community based Participatory Research on manganese - To be confirmed |

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| 12/12/24 | Leticia Nogueira Scientific Director, Health Services Research, American Cancer Society | Climate Change, Environmental Pollutants, and Cancer in Young Populations - To be confirmed |
| 12/19/24 | Mohamed Ateia Ibrahim US Environmental Protection Agency <i>Center for Environmental Solutions & Emergency Response</i> | Forward thinking PFAS solutions: from waste remediation to safer alternatives |
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| 01/09/24 | | |
| 01/16/24 | | |
| 01/23/24 | | |
| 01/30/24 | Rebecca Zhangqiuзу Fan FIU Tieu's lab | <i>Manganese as a model to investigate neuroprotective mechanism(s)</i> |
| 02/06/24 | Salehe Said (mentor Tieu) | <i>Age-related Alterations as the Risk Factor for Parkinson's Disease.</i> |
| 02/13/24 | Cristina Andrade-Feraud (mentor Azzam) | <i>Investigating Cell Type and Mechanism of Arsenic-Induced Cancer Stem Cell Formation</i> |
| 02/20/24 | Daniel Martinez (mentor Guilarte) | <i>Age- and Sex- dependent changes in Translocator Protein 18 kDa (TSPO) expression, cellular sources, and association with Amyloid-β plaques in the 5XFAD murine model of AD</i> |
| 02/27/24 | Ruth Marquez (mentor Lucchini) | <i>Unveiling Health Disparities: A Comprehensive Study of 9/11 First Responders in Florida</i> |
| 03/06/24 | Sharika Marjan (mentor Felty) | <i>Evolving perspectives: Exploring my research trajectory in environmental toxicology</i> |
| 03/13/24 | Alexander Rodichkin FIU Guilarte's Lab | <i>Slc39a14-knockout mouse model of childhood-onset manganese-induced dystonia-parkinsonism presents with neurodegenerative changes in the cerebellum</i> |
| 03/20/24 | Sarah Hardin (mentor Guilarte) | <i>Effects of Early Life Lead Exposure on the Cardiovascular System in a Transgenic Mouse Model of Alzheimer's Disease</i> |
| 03/27/24 | Lewis Freeman (mentor Lucchini) | <i>Lipidomic study on Parkinsonian patients and controls with environmental exposure to metals</i> |
| 04/03/24 | Jennifer Chavez (mentor Carrico) | <i>Neurobehavioral Consequences of Inflammation in people with HIV</i> |
| 04/10/24 | Arturo Barahona (mentor Richardson) | <i>Gene-environment interactions between the APOE genotype and manganese in neurodegenerative disease</i> |

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| 04/17/24 | Nicole Blum (mentor Tieu) | <i>Enhanced NLRP3-Mediated Inflammasome Activation in Primary Microglia Isolated from Humanized APOE-3 and -4 Mice.</i> |
| 04/24/24 | Ritishka Kapoor (mentor Guilarte) | <i>Mechanistic studies using Slc39a14 knockout mice to understand the dystonia-parkinsonism associated with SLC39A14 mutations - potential therapeutic approach</i> |
| 05/01/25 | Ning Sun (mentor Dr.Ibrahimou) | <i>Exploring Environmental Mixture Effect with Bayesian Kernel Machine Regression (BKMR)</i> |
| 05/08/25 | Kazi Tanvir Hasan (mentor Dr. Odom) | <i>The Sensitivity of Bayesian Kernel Machine Regression (BKMR) to Data Distribution: A Comprehensive Simulation Analysis</i> |
| 05/15/25 | Arlet Maria Acanda De La Rocha FIU Azzam's Lab | <i>Understanding the Role of Translocator Protein 18kDa (TSPO) in Glioblastoma stem-like Cells</i> |
| 05/22/25 | New PhD students | <i>Brief overview of the individual projects</i> |

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| Date | Speaker | Title | Exposure/ Outcome |
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| 08/24/23 | Alessandra Patrono , Environmental psychology, University of Brescia, Italy | <i>Neurodevelopmental impacts from mixed environmental exposure and social disadvantages in the city of Taranto, Italy</i> SLIDES PRESENTATION | Metals/cognitive and behavior |
| 08/31/23 | Marius Ungureanu Chair of Public Health Department, Director of Health Workforce Research and Policy, Babeş-Bolyai University Romania. | <i>How the European Union is addressing global challenges for health systems through mobile apps</i> | |
| 09/21/23 | Christoph van Thriel Professor Neurotoxicology and Chemosensation, IFADO, Germany | <i>Neurotoxicity form gadolinium: new evidence from cell, mice and human data</i> SLIDES PRESENTATION | Gadolinium/ neuro |
| 09/28/23 | Birgit Claus-Henn , Associate professor EHS, Boston University | <i>Metals and mixtures: Implications for children's health and future directions</i> SLIDES PRESENTATION | Metals/ development |
| 10/05/23 | Maria Elena Crespo López Laboratório de Farmacologia Molecular, Universidade Federal do Pará Belém, Brasil | <i>Insights from studying Amazonian populations exposed to mercury: from genetic susceptibility to translational research</i> SLIDES PRESENTATION | Mercury/neuro |
| 10/12/23 | Shimelis Gebriye Setegn Lead Scientist, Applied Science Bureau. South Florida Water Management District | <i>Integrated Watershed Water Quality Model: A Decision Support Tool for Environmental Resilience in Response to Sea Level Rise and Climate Change</i> | Climate change |
| 10/19/23 | Juan Morales (mentor Deoraj) | <i>Monitoring Heavy metal remediation efficacy using environmental modeling</i> | Metals/health |
| 10/26/23 | Daniele Mandrioli MD, PhD, Director Cancer Research Center Ramazzini Institute, Bologna, Italy | <i>Long-term rodent studies on cancer from chemical exposures at the Bentivoglio research center</i> | Chemicals/ cancer |
| 11/02/23 | Christian Perez (Dissertation defense mentor Felty) | <i>Contribution of NRF1/ID3 Transcriptional Activity-Driven Molecular Gene Networks in Vascular Toxicity Response</i> | PAH/Vascular Lesions in CAA |
| 11/09/23 | Diaaiden Alwadi (Dissertation defense - mentor Deoraj) | <i>Co-Exposures of Endocrine Disruptive Chemicals and Environmental Risk Factors Aggravate Prostate Cancer Prognoses.</i> | EDC / PCa |
| 11/16/23 AHC4-402 | Alok Deoraj Teaching Professor, EHS, Robert Stempel College of Public Health & Social Work | <i>Influence of co-exposures of environmental factors and endocrine disrupting chemicals on reproductive cancers</i> | AHC4-402 |

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| 11/30/23 | Donald Smith Professor Environmental Toxicology UCSC | <i>Attention Deficit Disorder and Developmental Manganese Exposure: Mechanisms and Therapeutic Treatment</i> | Manganese/ ADD |
| 01/11/24 | Mark Weisskopf Professor of Environmental Epidemiology and Physiology, Harvard School of Public Health | <i>Exploring early origins of cognitive decline: The St. Louis Baby Teeth Study</i> | Metals/Ci |
| 01/18/24 | Roberto Lucchini, Catalina Canizares Escobar, Nikita Borisenko, Rabeya Noon Research Team of WTC_FL study | <i>The World Trade Center_Florida cohort study [wtcfl.fiu.edu]</i> | |
| 01/22/24 11:00- 1:00 | Masashi Kitazawa Candidate for EHS Chair position | <i>Deciphering the emerging risk and neurotoxic mechanisms of air pollution in Alzheimer's disease</i> | Air pollution/AD |
| 01/24/24 1:15-3:00 | Tracie Baker Candidate for EHS Chair position | <i>Adverse health effects and transgenerational disease inheritance due to environmental contaminants using the zebrafish model</i> | |
| 01/25/24 | Rebecca Zhangqiuзу Fan FIU Tieu's lab | <i>Manganese as a model to investigate neuroprotective mechanism(s)</i> | Manganese/neuro |
| 02/01/24 11:00- 1:00 | Silvana Andreascu Candidate for EHS Chair position | <i>Nanotechnology-enabled Sensors for a Healthy and Sustainable Environment</i> | |
| 02/08/24 11:00- 1:00 | Hariom Yadav Candidate for EHS Chair position | <i>Unveiling Microbiome's Role: A Key Environmental Factor in Aging-Related Conditions and Its Mitigation through Microbiome Modulators</i> | |
| 02/22/24 | Salehe Said (mentor Tieu) | <i>Age-related Alterations as the Risk Factor for Parkinson's Disease.</i> | Parkinson |
| 02/29/24 | Cristina Andrade-Feraud (mentor Azzam) | <i>Investigating Cell Type and Mechanism of Arsenic-Induced Cancer Stem Cell Formation</i> | Arsenic/cancer |
| 03/07/24 | Daniel Martinez (mentor Guilarte) | <i>Age- and Sex- dependent changes in Translocator Protein 18 kDa (TSPO) expression, cellular sources, and association with Amyloid-β plaques in the 5XFAD murine model of AD</i> | |
| | Shawn Dinh (mentor Felty) | <i>The Culmination of Various EHS Lab Rotations: Insights and Experiences</i> | |
| 03/21/24 | Ruth Marquez (mentor Lucchini) | <i>Unveiling Health Disparities: A Comprehensive Study of 9/11 First Responders in Florida</i> | |
| | Sharika Marjan (mentor Hossain) | <i>Evolving perspectives: Exploring my research trajectory in environmental toxicology</i> | |

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| 03/28/24 | Alexander Rodichkin FIU Guilarte's Lab | <i>Slc39a14-knockout mouse model of childhood-onset manganese-induced dystonia-parkinsonism presents with neurodegenerative changes in the cerebellum</i> | Manganese/neuro |
| 04/04/24 | Sarah Hardin (mentor Guilarte) | <i>Effects of Early Life Lead Exposure on the Cardiovascular System in a Transgenic Mouse Model of Alzheimer's Disease</i> | Lead/AD |
| | Lewis Freeman (mentor Lucchini) | <i>Lipidomic study on Parkinsonian patients and controls with environmental exposure to metals</i> | Metals/PD |
| 04/11/24 | Adam Carrico Chair, FIU Department of Health Promotion and Disease Prevention | <i>Multi-level determinants of immune dysregulation in people with HIV</i> | HIV |
| | Jennifer Chavez (mentor Carrico) | <i>Neurobehavioral Consequences of Inflammation in people with HIV</i> | HIV |
| 04/18/24 | Arturo Barahona (mentor Richardson) | <i>Gene-environment interactions between the APOE genotype and manganese in neurodegenerative disease</i> | Manganese/ neuro |
| 04/25/24 | Sean Clouston Stony Brook University, NYC | <i>Neuroimaging and fluid biomarkers as outcomes of interest from 9/11 exposures</i> | WTC |
| 05/02/24 | Nicole Blum (mentor Tieu) | <i>Enhanced NLRP3-Mediated Inflammasome Activation in Primary Microglia Isolated from Humanized APOE-3 and -4 Mice.</i> | |
| 05/09/24 | Ritishka Kapoor (mentor Guilarte) | <i>Mechanistic studies using Slc39a14 knockout mice to understand the dystonia-parkinsonism associated with SLC39A14 mutations - potential therapeutic approach</i> | Parkinsonism |
| 05/16/24 | Ning Sun (mentor Dr. Bursac) | <i>Exploring Environmental Mixture Effect with Bayesian Kernel Machine Regression (BKMR)</i> | Mixed exposures |
| | Kazi Tanvir Hasan (mentor Dr. Bursac) | <i>The Sensitivity of Bayesian Kernel Machine Regression (BKMR) to Data Distribution: A Comprehensive Simulation Analysis</i> | Mixed exposures |
| 05/23/24 | Arlet Maria Acanda De La Rocha FIU Azzam's Lab | <i>Understanding the Role of Translocator Protein 18kDa (TSPO) in Glioblastoma stem-like Cells</i> | |
| 06/14/24 | Yenny Diaz [10:30am-11:30pm] (Dissertation defense - mentor Lucchini) | <i>An Eight Year Longitudinal Assessment of Non-Fatal and Fatal injuries in the US, and the effects of demographic covariates</i> | Occupational Injuries |
| 06/27/24 | Somaiyeh Azmoun [11:00am-12:00pm] (Dissertation defense - mentor Lucchini) | <i>Impact of manganese exposure on brain beta-amyloid deposition and ADRD biomarkers among ferroalloy workers</i> | Manganese/ neuro |


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Time: 11:30a-01:00p EAST

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|----------|--|---|---------------------------------------|
| 10/06/22 | Michael Anastario Assistant Professor Health Promotion & Disease Prevention Robert Stempel College of Public Health & Social Work | <i>Agrichemical exposures aquí y allá: cultural differences in work environments and health seeking behaviors relative to international migration among foreign-born Latino agricultural workers in South Florida</i> | Agrochemicals Climate/health |
| 10/20/22 | Naresh Kumar Professor of Environmental Health in the Department of Public Health Sciences University of Miami | <i>Climate, adaptation and health – national studies</i> | Climate/health |
| 12/15/22 | Muhammad Hossain Assistant Professor Department of Environmental Health Sciences Robert Stempel College of Public Health & Social Work | <i>Pyrethroid Exposure and Adult Neurogenesis: Interplay Between ER Stress and Neuroinflammation</i> | Pyrethroids/ neuro |
| 02/02/23 | Natalia Soares Quinete <i>Assistant Professor, Department of Chemistry & Biochemistry. Institute of Environment, Freshwater Resources FIU Biscayne Bay</i> | <i>Assessing forever chemicals in South Florida environments and potential environmental and human health risks: Should we be concerned?</i>  PFAS presentation_NSQ.pptx | PFASS/health |
| 02/23/23 | Elena Colicino , PhD, Assistant Professor, Department of Environmental Medicine and Public Health, Icahn School of Medicine at Mount Sinai, NYC | <i>Statistical approaches for Omics and environmental health data</i> Slides of the presentation | Metals, POPs/health |
| 03/02/23 | Diana Azzam Assistant Professor, Director of Doctoral Programs FIU Department of Environmental Health Sciences Robert Stempel College of Public Health & Social Work | <i>Overview of the Azzam Lab for Functional Precision Medicine and Cancer Stem Cells</i> | Cancer |
| 03/09/23 | Marcia Ratner , PhD, DABT Assistant Professor, Department of Pharmacology & Experimental Therapeutics, Boston University Chobanian & Avedisian School of Medicine | <i>Heavy metals and Parkinsonism</i> Slides of the presentation | Lead, Mercury, Manganese/ neuro |

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| 03/16/23 | CTS_CCF Symposium | <i>South Florida Translational Research Symposium Developing tomorrow's therapies today</i> https://cts.fiu.edu/news-events/symposium-2023/registration/ | / |
| 03/23/23 | Paulo Chaves, MD, PhD Associate Professor, Leon Medical Centers Chair in Geriatrics; Director, Benjamin Leon Family Center for Geriatric Research & Education. FIU Department of Translational Medicine; Division of Internal Medicine | <i>Premature Frailty in older adults</i> | Aging |
| 03/30/23 | Ferass Sammoura Robert Stempel College of Public Health & Social Work | <i>Persistent Metabolite of DDT, p,p'-DDE is a Potent Inducer of Amyloid Release and Pathology</i> | DDT/neuro |
| | Daniel Shoieb University of Brescia, Italy | <i>Prognostic characteristics of metabolomics in metal exposed PD patients from Brescia, Italy</i> | Metals/neuro |
| 04/13/23 | Said Salehe Robert Stempel College of Public Health & Social Work | <i>Age-related Alterations as the Risk Factor for Parkinson's Disease.</i> | Parkinson |
| | Diaaiden Alwadi Robert Stempel College of Public Health & Social Work | <i>Endocrine Disrupting Chemicals Influence Hub Genes Associated with Aggressive Prostate Cancer</i> | EDC |
| 04/20/23 | Cristina M. Andrade-Feraud Robert Stempel College of Public Health & Social Work | <i>Investigating Cell Type and Mechanism of Arsenic-Induced Cancer Stem Cell Formation</i> | Arsenic |
| | Ritishka Kapoor Robert Stempel College of Public Health & Social Work | <i>Mechanistic studies using Slc39a14 knockout mice to understand the dystonia-parkinsonism associated with SLC39A14 mutations in humans and potential therapeutic approach</i> | Parkinsonism |
| 04/27/23 | Daniel Martinez Robert Stempel College of Public Health & Social Work | <i>Age- and Sex- dependent changes in Translocator Protein 18 kDa (TSPO) expression, cellular sources, and association with Amyloid-β plaques in the 5XFAD murine model of AD.</i> | Alzheimer |
| | Nicole Blum Robert Stempel College of Public Health & Social Work | <i>Enhanced NLRP3-Mediated Inflammasome Activation in Primary Microglia Isolated from Humanized APOE-3 and -4 Mice.</i> | |
| 05/04/23 | Christian Perez Robert Stempel College of Public Health & Social Work | <i>Contribution of NRF1/ID3 Transcriptional Activity-Driven Molecular Gene Networks in Vascular Toxicity Response</i> | PAH/Vascular Lesions in CAA |
| | Sally Abboud Robert Stempel College of Public Health & Social Work | <i>What is the Origin of Ovarian Cancer?</i> | Cancer |

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| 05/11/23 | Yenny Diaz Robert Stempel College of Public Health & Social Work | <i>An Eight Year Longitudinal Assessment of Non-Fatal and Fatal injuries in the US, and the effects of demographics on the probabilities of injuries</i> | Occupational Injuries |
| | Somaiyeh Azmoun Robert Stempel College of Public Health & Social Work | <i>Investigation of prognostic characteristics of AD using metabolic analysis among Mn exposed ferroalloy workers</i> | Manganese |
| 05/18/23 | Freeman Lewis Robert Stempel College of Public Health & Social Work | <i>Stem Cell Transplantation in Spinal Cord Injury</i> | |
| | Sarah Hardin Robert Stempel College of Public Health & Social Work | <i>Environmental Justice, Lead Toxicity, and Alzheimer's Disease</i> | Lead/AD |
| 05/25/23 | Juan Morales Robert Stempel College of Public Health & Social Work | <i>Long-term monitoring of heavy metals using numerical modeling and molecular indices</i> | Metals/health |
| | Arturo Barahona Robert Stempel College of Public Health & Social Work | <i>Gene-environment interactions between the APOE genotype and manganese in neurodegenerative disease</i> | Manganese/ neuro |

