Table B1 Center Members and Expertise v112020

Last Name	First Name	Degree	Title	Affiliation	Department	Areas of Expertise (as self-reported, 2019)
Full Members 25						
Abdel-Malek	Zalfa	PhD	Professor	UC - COM	Dermatology	Ultraviolet radiation, melanoma, Skin cancer, DNA repair, Oxidative stress
Bhattacharya	Amit	PhD	Professor	UC - COM	Environmental Health	Environmental exposures-heavy metals, neurotoxins, neuro-behavioral effects on motor and cognitive functions, wearable and ingestible sensors for first responders/ military, immune markers and microbiome, individualized prediction of heat stress, motor and cognitive functions
Brunst	Kelly	PhD	Assistant Professor	UC - COM	Environmental Health	Psychosocial stress, traffic pollution, mental health, epigenetics, mitochondrial function
Burns	Katherine	PhD	Assistant Professor	UC - COM	Environmental Health	Endometriosis, uterus, immunotoxicants/EDCs, inflammation, DOHaD
Cecil	Kim	PhD	Professor	CCHMC	Pediatrics\Radiology	Inflammatory response to air pollution, neurological disorders associated with environmental neurotoxicants, behavioral disorders associated with environmental neurotoxicants
Chougnet	Claire A.	PhD	Professor	CCHMC	Pediatrics	Fetal immune systems, chorioamnionitis, lung disease, regulatory T cells, inflammation, molecular immunology, Antigen-presenting-cells; cytokines
Deka	Ranjan	PhD	Professor	UC - COM	Environmental Health	Genetics, epigenetics, chronic disease, Cancer, Gene & Environment interaction
Dietrich	Kim	PhD	Professor Emeritus	UC - COM	Environmental Health	Developmental neurotoxicology, children's environmental health, metals, pharmaceutical and environmental treatments
Harley	John	MD	Professor & Director	CCHMC	Pediatrics / Autoimmune Genomics	Director, Center for Autoimmune Genomics and Etiology (CAGE)
Mahabee-Gittens	Melinda	PMD, MS, CTTS	Professor	CCHMC	Pediatrics / CCHMC Emergency Medicine	Biomarkers and clinical effects of secondhand and thirdhand smoke exposure, pediatric respiratory disease and neurodevelopment

Medvedovic	Mario	PhD	Professor	UC - COM	Environmental Health	
Meller	Jarek	PhD	Professor	UC - COM	Environmental Health	Computational toxicology, pharmacogenomics, exposure signatures, proteomics, brain disorders
Namekawa	Satoshi	PhD	Associate Professor	CCHMC	Peds / Reproductive Sciences	Epigenetics, sex Chromosomes, germ cells, spermatogenesis
Newman	Nicholas	DO, FAAP	Assistant Professor	CCHMC	Pediatrics / General & Community Pediatrics	Air pollution, asthma, lead, persistent organic compounds, neurodevelopment
Pinney	Susan	PhD, FACE	Professor	CCHMC	Environmental Health	PFAS, metals, reproductive health, cancer, genetic variants
Puga	Alvaro	PhD, AAS, ATS	Professor	UC - COM	Environmental Health	Birth defects from environmental exposure, mechanisms of metal toxicity, gene-environment interactions in congenital cardiac disease, Mechanisms of developmental toxicity, environmental epigenetics
Reponen	Tiina	PhD	Professor	UC - COM	Environmental Health	Microbiome, asthma, respiratory health
Rubinstein	Jack	MD	Associate Professor	UC - COM	Internal Medicine - Cardiology	Cardiovascular disease, EDCs, bisphenols, cardiomyocytes
Ryan	Patrick H.	PhD, MS	Professor	UC - COM	Pediatrics / Biostatistics & Epidemiology	
Vorhees	Chip	PhD	Professor	UC - COM	Pediatrics / Neurology	
Wang	Hong Sheng	PhD	Professor	CCHMC	Pharmacology and Cell Biology	Environmental chemicals, endocrine disruptor, cardiovascular, arrhythmias, hemostasis
Woo	Daniel	MD	Professor	UC - COM	Neurology	Neuroscience, Inflammation, RNA sequencing
Xie	Changchun	PhD	Professor	UC - COM	Environmental Health / Biostatistics	
Yadav	Jagjit	PhD	Professor	UC - COM	Environmental Health	Immunotoxicology and biomarkers of environmental exposures, Pulmonary toxicity mechanisms (GxE research, Role of Microbiome) and infection susceptibility, Focus on Particulate/fiber toxicants (C and metal Nanoparticles/ultrafine particles), Immunotoxicants (PFAS, PAHs, Mycotoxins); Pollutant detoxification/mitigation

Yolton	Kimberly	PhD	Professor	CCHMC	Pediatrics / General Pediatrics	Neurobehavior, exposure, assessment, children
Clinical Members 10						
Bernstein	David	MD	Professor	UC - COM	Internal Medicine - Immunology	
Bernstein	Jonathan	MD	Professor	UC - COM	Internal Medicine - Immunology	Environmental exposure, therapeutic outcomes, mechanisms (omics, immune mediated, neurogenic), respiratory, skin
Biro	Frank	MD	Professor	CCHMC	Pediatrics / Adolescent Medicine	
DeFranco	Emily	DO, MS	Professor	UC - COM	Obstetrics & Gynecology	Preterm birth, short cervix, infant mortality, air pollution influences on pregnancy complications, genetics of birth timing, racial differences in perinatal outcomes, social determinants of perinatal health, birth spacing, and markers of fetal maturation
Heubi	James	MD	Professor & Associate Dean	CCHMC	Pediatrics / Gastroenterology & Hepatology	Pediatric gastroenterology, hepatology and nutrition, liver, digestive diseases
Kissela	Brett M.	MD, MS	Professor & Chair	UC - COM	Neurology and Rehabilitation Medicine	
McCormack	Francis	MD	Professor	UC - COM	Internal Medicine—Pulmonary	
McCullumsmith	Robert	MD	Professor	UC - COM	Psychiatry & Behavioral Neuroscience	
Whitsett	Jeff	MD	Professor & Director	CCHMC	Pediatrics / Perinatal Pulmonary Biology	
Yu	Jane	PhD	Associate Professor	UC - COM	Pulmonary, Critical Care and Sleep Medicine	Endocrine factors and reproductive health, cystic lung diseases to environmental exposure, environmental health and lung metastasis, mechanisms of steroid hormone actions, environmental exposure and -omics
Associate Members 48						
Aronow	Bruce	PhD	Professor	CCHMC	Pediatrics / Bioinformatics	
Barski	Artem	PhD	Associate Professor	CCHMC	Pediatrics / Allergy, Immunology & Human Genetics	Director, Epigenomics Data Analysis Core; genetics/epigenetics of allergy &immunology/T-cell biology

Borchers	Michael	PhD	Associate Professor	UC - COM	Internal Medicine -- Pulmonary	Particulate exposure, immunology, pulmonary, neonate
Butsch Kovacic	Melinda	PhD, MPH	Professor & Assoc Dean of Research, CAHS; Assoc Prof, Pediatrics	UC CCHMC	Pediatrics | Allied Health Sciences	Smoking, second hand smoke, asthma/respiratory disease, cardiovascular disease, truck related air pollution
Choubey	Divaker	PhD	Professor	UC-COM CVAMC	Environmental Health	Inflammation, cancer, DNA-damage, signal transduction, cell cycle
Czyzyk-Krzeska	Maria	MD, PhD	Professor	UC - COM CVAMC	Cancer and Cell Biology	mechanistic studies of signaling pathways and regulatory molecular mechanisms in cancer cell regulations and tumor growth; autophagy, kidney/renal cancer
Du	Chunying	PhD	Associate Professor	UC	Cancer and Cell Biology	DEN (diehynitrosamine) exposure, DNA damage and repair, genome, instability and apoptosis, liver injury, oxidative stress and inflammation, liver tumorigenesis induced by DEN, Nonalcoholic steatohepatitis (NASH) and metabolism
Ehrlich	Shelly	MD, ScD, MPH	Assistant Professor	CCHMC	Pediatrics / Biostatistics & Epidemiology	
Genter	Mary Beth	PhD, DABT, ATS	Professor	UC – COM	Environmental Health	Neurotoxicology, olfaction, neurodegeneration, toxicology, respiratory toxicology
Greis	Kenneth	PhD	Professor and Associate Dean for Research	UC - COM	Cancer and Cell Biology	Mass Spectrometry, Proteomics, Core Management
Grinshpun	Sergey	PhD	Professor	UC - COM	Environmental Health	
Heineman	William	PhD	Distinguished Professor	UC - CEAS	Chemistry	
Huang	Shouxiong	PhD	Assistant Professor	UC - COM	Environmental Health	Inflammations, lipid profiles, air pollutants, infections, reproductive toxicity
Hui	David	PhD	Professor & Vice Chair of Research	UC - COM	Pathology and Laboratory Medicine	Lipid metabolism, Atherosclerosis, diabetes, obesity, vascular biology, genetic factors in regulation of cholesterol transport and in the maintenance of cell functions in the arterial wall. Murine models.
Jandarov	Roman	PhD	Assistant Professor	UC - COM	Environmental Health	

Kasper	Susan	PhD	Professor	UC - COM	Environmental Health	Mechanisms regulating metastasis, cancer stem cells (CSCs), Circulating tumor cells, matrisome, epithelial mesenchymal transition (EMT), androgen/flame retardant/androgen receptor-mediated activities
Khurana-Hershey	Gurjit	MD, PhD	Professor	CCHMC	Pediatrics / Allergy & Immunology	
Kim	Kyounghyun	PhD	Assistant Professor	UC - COM	Environmental Health	Fatty liver diseases and cancer, epigenetics, microbiome, PFOA, metals
Langevin	Scott	PhD	Associate Professor	UC - COM	Environmental Health	Cancer, epigenetics, extracellular vesicles, non-coding RNA, occupational exposures
Lewkowich	Ian	PhD	Assistant Professor	CCHMC	Pediatrics / Immunology	Inflammation/immunity, Allergen/pollution, multi/trans-generational influences (epigenetics), allergic disease, behavioral disorders
Lu	Mingming	PhD	Associate Professor	UC - CEAS	Biomed, Chemical & Environmental Engineering	Air pollutant characterization (*e.g.*, from traffic emissions and PAHs), characterization and reduction of POPs, such as PCBs and PFAS.
Mendy	Angelico	MD, MPH, PhD	Assistant Professor	UC	Epidemiology	Chronic lower respiratory diseases in relation to environmental exposures such as environmental endotoxins, ambient air pollution, and endocrine disrupting chemicals
Merianos	Ashley	PhD	Associate Professor	UC	Health Ed and Promotion	tobacco, pulmonary health, behavioral epidemiology, biomarkers
Merino	Edward	PhD	Associate Professor	UC	Chemistry	Biochemical mechanisms in cancer development and control, reactive oxygen species (ROS), antioxidants
Mersha	Tesfaye	PhD	Associate Professor	CCHMC	Peds / Asthma Research	Air pollution, allergens, asthma, omics, interaction
Miller	William	PhD	Professor	UC	Molecular Genetics	Microbiology, Immunology, Biochemistry of receptors, cytomegaloviruses, G-protein coupled receptor (GPCR) signaling
Morrow	Ardythe	PhD	Professor, DEH Div of Epidemiology Prof Emerita, Pediatrics	CCHMC	Pediatrics / Biostatistics & Epidemiology	Epidemiology, microbiome, human milk, oligosaccharides/glycans, infectious disease, immune response, genetic variants
Niu	Liang	PhD	Assistant Professor	UC - COM	Environmental Health	

Ouyang	Bin	MD	Research Scientist	UC - COM	Environmental Health	Environmental chemicals, endocrine disruptors, epigenetics, Cancer, immune and information response
Porollo	Alexey	PhD	Associate Professor	CCHMC	Pediatrics / Bioinformatics	Environmental exposure, epigenetic modification, adverse impact, signaling pathway, gene expression
Prows	Daniel	MD	Associate Professor	UC - COM	Pediatrics / Human Genetics	
Ray	Patrick A.	PhD	Assistant Professor	UC - CEAS	Chemical Engineering	Water systems modelling, risk assessment
Reichard	John	PhD, PharmD	Assistant Professor	UC	Industrial Hygiene	Applied toxicology, chemical risk analysis
Sadayappan	Sakthivel	PhD, MBA	Professsor	UC-COM	Cardiovascular Center	regulators of sacromere structure and function in cardiac and skeletal muscle
Schulz	Mark J.	PhD, PE	Professor	UC - CEAS	Mechanical Engineering	
Shanov	Vesselin	PhD	Professor	UC - CEAS	Chemistry & Environ Engineering	Design and fabricating of carbon nanotube and graphene materials for heavy metal sensors, energy storage devices and fluid filtration heatable membranes. Biodegradable medical implant devises based on magnesium
Son	Sang Young	PhD	Associate Professor	UC - CEAS	Mechanical & Materials Engineering	
Talaska	Glen	PhD	Professor & Interim Chair	UC	Industrial Hygiene/ Environmental Health	Biomarkers, Carcinogens, Exposure assessment
Tarapore	Pheruza	PhD	Assistant Professor	UC - COM	Environmental Health	
Tso	Patrick	PhD	Professor	UC - COM	Pathology and Lab Medicine	Director Cincinnati Mouse Metabolic Phenotyping Center, GI tract, lipid absorption, bile salts, apolipoproteins apo AI, apo AIV, apo B, and apo CI
Tu	Maobing	PhD	Associate Professor	UC - CEAS	Chemical & Env Engineering	chem & environ engineering, bioprocess engineering, yeast and bacterial metabolomics, microbiome analysis, biodegradation
Vest	Katherine	PhD	Assistant Professor	UC - COM	Molecular Genetics	molecular bio, RNA bio, skeletal muscle regeneration, trace element homeostasis, RNA binding proteins' regulation of gene expression in mitochondrial metabolism and MuSC function

Wang	Jun	PhD, PE, CIH, CSP	Assistant Professor	UC	Environmental Health / Industrial Hygiene	Air quality, inhalation exposures, metals
Xia	Ying	PhD	Professor	UC - COM	Environmental Health	Gene-environment interactions, developmental toxicity, epithelial biology, signal transduction
Yan	Bingfan	DVM, PhD	Professor & Assoc Dean	UC	Pharmacy	
Ying	Jun	PhD	Professor	UC - COM	Environmental Health	
Zhang	Peng	PhD	Associate Professor	UC - CEAS	Chemistry and Materials Science	Sensing, Biomarker
Zhang	Xiang	PhD	Associate Professor	UC - COM	Environmental Health / Environmental, Genetics and Sequencing Core	
Emeritus Members n=5						
Buncher	C. Ralph	ScD, MS	Professor Emeritus	UC - COM	Environmental Health	
LeMasters	Grace	PhD	Professor Emeritus	UC - COM	Environmental Health	Ultrafine particles, solvents, cognitive dysfunction, CNS effects, anxiety/depression
Lockey	James	MD	Professor Emeritus	UC - COM	Environmental Health	
Nebert	Daniel W.	MD, MS	Professor Emeritus		Environmental Health	
Rice	Carol	PhD	Professor Emerita	UC - COM	Environmental Health	Reconstruction of exposure for occupational / environmental epidemiology; worker training; emergency preparedness
UC, University of Cincinnati; COM, College of Medicine; CCHMC, Cincinnati Children's Hospital; CVAMC, Cincinnati Veterans Affairs Medical Center; CEAS, College of Engineering and Applied Science; COP, College of Pharmacy						
Full Member: Funded investigators who are principal investigators (PIs) of peer-reviewed multi-year NIEHS or other EHS grants equivalent to NIH R/U/P-type grants (e.g., R21, R00, R01, U01, P30, P42, P50), with research interests directly relevant to the GXE theme of the CEG. The investigator's research must have identified environmental agents and focus on genetics, genomics, epigenetics, proteomics and\or metabolomics of disease risk and outcome. Includes study of microbiota\microbiome.						
Clinical Member: Clinicians who are involved in EHS research or who would like to develop collaboration with a CEG full member to promote bi-directional translational research;						
Associate Member: Includes investigators with strong and directly relevant research interests in GXE research and/or technical expertise or resources of value to the CEG. They must have research work with identified environmental agents. Full members who are no longer NIH funded principal investigators due to loss of funding are included in this category. Category also includes New investigators in EHS-areas who are in the process of obtaining initial NIEHS funding.						

Emeritus Member: Distinguished GxE researchers and emeritus faculty formerly associated with CEG						
• **25 Full**						
– Funded investigators who are principal investigators (PIs) of peer-reviewed multi-year NIEHS or other EHS grants equivalent to NIH R/U/P-type grants (e.g., R21, R00, R01, U01, P30, P42, P50), with research interests directly relevant to the GXE theme of the CEG. The investigator's research must have identified environmental agents and focus on genetics, genomics, epigenetics, proteomics and\or metabolomics of disease risk and outcome. Includes study of microbiota\microbiome.						
• **10 Clinical**						
– Clinicians who are involved in environmental health-related research						
• **48 Associate**						
– Investigators not currently or recently funded in EHS, but with EHS interests and/or relevant technical expertise or resources.						
– New investigators with EHS research interests.						
• 5 **Emeritus**						
88 Total members						