#### CEG

Center for Environmental Genetics



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## Carol Rice, PhD receives Selikoff Award

CEG Emerita Dr. Carol Rice received the Irving J. Selikoff Award for contributions to the protection of worker's health and the environment at the International Conference on the Environment, Work and Health in the 21st Century, held in Bologna, Italy, late last year. Read more here.

### Top 10 Poster @ ToxExpo 2024

John Reichard, PhD, a CEG member, presented a Top 10 poster abstract on a framework approach for evaluation of potential degradation of active pharmaceutical ingredients for long-duration spaceflight. Read more here.

CEG Cohorts	
Cohort / PI / Collaborators / N /	Exposures / Tools / Experience
Inclusion	Exposures / Tools / Experience
CA cohort	
Yolton, Cecil, Ryan, Brunst	Air pollution
23% Black, 3% Hispanic	
CAAPS cohort	Land use regression model for
Ryan, Cecil, Yolton, Brunst	elemental carbon from traffic;
21% Black, 2.3% Hispanic	Metals; Hair\serum cotinine. Home
, , , , , , , , , , , , , , , , , , ,	assessment for exposures
Cincinnati Lead Study (CLS)	Whole blood Pb, Pb in deciduous
Cecil, Wright (MSSM), Bhattacharya	teeth,
80% Black Croatian Cohort	Bone Pb by K-XRF.
Deka	PFAS
DENU	Metals (especially uranium), radon,
Fernald Community Cohort (FCC)	PFAS. Exposure algorithm for U and
Pinney, Xie. Petrick (MSSM), Chen	metric calculation. Cistern use
(UPenn)	patterns
Pediatric Clinic Repository	Pets, Environmental Tobacco Smoke
(GCPCR) Hershey	Mold, Allergens
39% Black, 4% Hispanic	Traffic Pollution, Diesel Exhaust
HOME study solver	Q items on exposure; Drinking water
HOME study cohort Yolton, Cecil	Environmental sampling for metals,
29% Black	PBDE, PFAS, PCB, OPEs, phthalates,
2976 Black	phenols, pesticides, tobacco
BCERP Puberty cohort	Phthalates, phenols, PFCs, PBDEs,
Cincinnati: Biro, Pinney, Xie, Brunst	PCBs, metals; tracking drinking water
33% Black, 4% Hispanic	source; sunscreen recognition tool
Samoa GWAS Cohort	Dietary exposures
Deka	,,
Pediatric Respiratory & Enteric Virus	DEAS and matals
Acquisition & Immunogenesis Longitudinal (PREVAIL) Cohort	PFAS and, metals Luminex pathogen panel
Morrow, 45% Black, 2.4% Hispanic	Luminex patriogen paner
Global Exploration of Human Milk	
Morrow, 33.3% Hispanic	PFAS and metals
Influenza IMPRINT Birth Cohort	
Morrow, 24% Black, 4% Hispanic	PFAS and metals
Morrow, 2470 Black, 470 Hispanic	

### 1966-2024: A Long Legacy of Achievement

As we mark the end of the CEG's 2018–2023 cycle, we recall key milestones in the history of the CEG and its contributions to the study of gene-environment (GxE)interactions:

1966: Dr. Edward Radford, who was named 2nd director of the UC Department of Environmental Health, is awarded a \$6.5 million Center grant from the U.S. Public Health Service to establish the UC Center for Study of the Human Environment. Radford was known for his research on cigarettes in the 1960s, finding that radioactive polonium 210 was present in tobacco, made its way into the lungs of smokers, and could be a contributing factor in lung cancer.

1966: Paul Kotin, MD, is chosen as director of the newly established Division of Environmental Health Sciences (DEHS) within the National Institutes of Health, later to become NIEHS. DEHS leases space in Research Triangle Park, North Carolina, the home of NIEHS today,

**1969**: Dr. Raymond Suskind is named 3rd director of the UC Department of Environmental Health and serves through 1985. Suskind serves as PI of the Center grant until Dr. Roy Albert becomes chair in 1986.

**1992**: Daniel W. Nebert, MD wins NIEHS environmental health sciences center award P30 ES006096 and names the Center for Environmental Genetics (CEG). Under Nebert, investigators from additional university departments are incorporated into the grant, and Center pilot funding contributes substantially to capacity-building for environmental health science research at UC and Cincinnati Childrens Hospital Medical Center.

**1996**: Dr. Marshall Anderson becomes the 5th director of the Department (1996–2003). A new Center for Genome Information is established.

**2001**: Molecular Epidemiology in Children's Environmental Health (MECEH) T32 training program established

**2005**: Shuk-Mei Ho, PhD, becomes the 6th Department chair and renews & directs the CEG P30 award, 2005–2018.

2013: CEG NIEHS award renewed for \$8.7 million.

**2018**: CEG NIEHS award renewed, \$8 million, 2018–2023 (YRS 26–30). Dr. Susan Pinney is named CEG Director, having ultimate oversight of four Center cores and the CEG Pilot Projects Program, as well as **12 CEG cohorts**, each used to test multiple research questions. All of these cohorts, listed at right, bank biospecimens and have data-and biospecimen-sharing policies.

**2023**: Dr. Alex Lentsch is named Chair of the Department of Environmental and Public Health Sciences. The CEG celebrates 5 decades of GxE interactions research.