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Title	Principal Investigator	Institution	Grant Number
A Formaldehyde Dosimeter for Personal Exposure Assessment	nameni, gordon n	Platypus Technologies, Llc	R43ES026474
A Framework for Integrating Multiple Data Sources for Modeling and Forecasting of Infectious Diseases	nsoesie, elaine o.	University Of Washington	K01ES025438
A Systems Approach to Mapping the DNA Damage Response	ideker, trey	University Of California San Diego	R01ES014811
A Systems Approach to Understanding Effects of MCHM on Cellular Metabolism	gallagher, jennifer	West Virginia University	R15ES026811
A novel genotoxicity assay incorporating the toxicogenomics biomarker TGx-28.65 with a direct digital counting	george, jay	Trevigen, Inc.	R43ES026473
A screening assay for chemicals that affect the differentiation of human neural cells.	routree, michael	Nzumbe Epigenetics	R41ES026225
ASK signalosomes and environmental sensing	mclaughlin, bethann m	Vanderbilt University Medical Center	R01ES022936
Advanced Polymer-Based Micro-sensor for Radiation Detection and Measurement	hobson, stephen terrence	Seacoast Science, Inc.	R41ES027389
Advancing Outcome Metrics in Trauma Surgery Through Utilization of Big Data	callcut, rachael a	University Of California, San Francisco	K01ES026834
Advancing mechanism-based studies with cross-species chemical-phenotype data	mattingly, carolyn j	North Carolina State University Raleigh	R01ES023788
Aerosol Sampling and Microfluidic Analysis of Reactive Oxygen Species	zyuzin, alexei	Illionix, Llc	R42ES026532
Allergens and Induced Asthma: Eradicating Indoor Allergens from Dust Mites (Phase	quick, allan m.	Carbonix, Llc	R44ES019790
An Integrative Bioinformatics Approach to Study Single Cancer Cell Heterogeneity	garmire, lana x	University Of Hawaii At Manoa	K01ES025434
Anatomically derived airway models to facilitate computational toxicology in mice	beichel, reinhard r.	University Of Iowa	R01ES023863

Assessing Personal Exposure to Ultrafine PM Number and Respiratory Health	ryan, patrick h	Cincinnati Childrens Hosp Med Ctr	R21ES024713
Automation of a Liver Genotoxicity Assay	dertinger, stephen d	Litron Laboratories, Ltd.	R44ES026464
Big Data U: Empowering Modern Biomedicine via Personalized Training	van horn, john darrell	University Of Southern California	U24ES026465
Biomarker Matrix for Genotoxicity Mode of Action	dertinger, stephen d	Litron Laboratories, Ltd.	R44ES024039
Biomarkers of formaldehyde based on DNA-protein cross-links	lu, kun	University Of Georgia	R03ES024147
Causal Inference with Interference for Evaluating Air Quality Policies	zigler, corwin matthew	Harvard School Of Public Health	R01ES026217
CometChip: Development of a high throughput DNA damage assay in hepatocytes	recio, leslie	Integrated Laboratory Systems, Inc.	R44ES024698
Comprehensive Solution for Transcriptome Profiling of Archived Tissues	haynes, brian clifton	Asuragen, Inc.	R43ES024365
Comprehensive Translational Science Analytics Tools for the Global Health Agenda	spiegelman, donna l	Harvard School Of Public Health	DP1ES025459
Computational platform for Green Chemistry	myatt, glenn john	Leadscope, Inc.	R43ES022874
Connecting Single Cell Heterogeneity to Clinical Descriptors of Clonal Evolution in Acute Myeloid Leukemia	paguirigan, amy	Fred Hutchinson Cancer Research Center	K01ES026842
Correcting for Population Structure in Gene-by-Environment Interaction Studies	eskin, eleazar	University Of California Los Angeles	R01ES022282
CyanoMap: Mapping inland lake quality and Amyotrophic lateral sclerosis risk fact	torbick, nathan	Applied Geosolutions, Llc	R44ES022103
DEVELOPING THE UNTARGETED METABOLOMIC WORKFLOW FOR HIGH-THROUGHPUT ANALYSES	patti, gary joseph	Washington University	R01ES022181
Data integration for global population health through dynamic models	van panhuis, willem gijsbert	University Of Pittsburgh At Pittsburgh	K01ES026836
Data-Mining Clinical Decision Support from Electronic Health Records	chen, jonathan hailin	Stanford University	K01ES026837
Deep Learning and Streaming Analytics for Prediction of Adverse Events in the ICU	nemati, shamim	Emory University	K01ES025445
Development of a lab-on-a-chip for point-of-care biomonitoring of blood metals	papautsky, ian	University Of Cincinnati	R01ES022933
Development of integrative models for early liver toxicity assessment	wang, tao	Ut Southwestern Medical Center	R03ES026397

Effective Methods to Identify the Toxic Metal Proteome	petering, david harold	University Of Wisconsin Milwaukee	R21ES024509
Electrocatalytic Studies of Toxic Pollutant Activation	rusling, james f.	University Of Connecticut Storrs	R01ES003154
Epileptic biomarkers and big data: identifying brain regions to resect in patients with refractory epilepsy	gliske, stephen v	University Of Michigan	K01ES026839
Expressing bacterial bioluminescence in human cell lines: Engineering autobioluminescent reporter cells to screen for endocrine disruptor chemicals	morrison, dan	490 Biotech, Inc.	R44ES022567
From luc to GFP to lux: Evolving an improved zebrafish model for the screening of	ripp, steven a	University Of Tennessee Knoxville	R15ES023979
Genetics of Drug Induced Cardiotoxicity	choi, ted	Predictive Biology	R44ES025139
Genetics of arsenic metabolism: fine-mapping and rare variant analysis	pierce, brandon lee	University Of Chicago	R01ES023834
HashtagHealth: A Social Media Big Data Resource for Neighborhood Effects Research	nguyen, quynh	University Of Utah	K01ES025433
High Throughput Lipidomics Analysis by MALDI/Ion Mobility Mass Spectrometry	murphy, robert carl	University Of Colorado Denver	R01ES022172
Home Ozone Monitor Incorporating Low Cost High Performance Printed Gas Sensors	carter, michael t.	Kwj Engineering, Inc.	R44ES021676
INGOT: a family of statistical computing algorithms for hypothesis-driven imaging genomic and longitudinal neuroimaging analysis	schmitt, james e	University Of Pennsylvania	K01ES026840
Integrated Chemoselective and Informatic Platform for Large-Scale Metabolomics	fan, teresa whei-mei	University Of Kentucky	R01ES022191
Integrated In Vitro and Alternative Ocular (IIVAO) Irritation Testing Strategy	degeorge, george l.	Mb Research Laboratories, Inc.	R44ES024052
Integration of Genomic Biomarkers with the devTOX Human Embryonic Stem Cells Scre	recio, leslie	Integrated Laboratory Systems, Inc.	R44ES022114
Liquid Crystal Sensors for Volatile Organics	nameni, gordon n	Platypus Technologies, Llc	R43ES027364
Low-Cost Catalytic Biomass Cookstove for Improved Indoor Air Quality	yelvington, paul	Mainstream Engineering Corporation	R44ES022880
Low-Cost Versatile Sampler for Personal PM Exposure by Microenvironment	volckens, john	Colorado State University	R21ES024719

Mass Spectrometric Screening of the Effect of Chemical Toxicants on the Human Epitranscriptome during Stem Cell Differentiation	agris, paul f	Athghin Biotechnology, Inc.	R41ES026250
Measuring toxicant effects on cellular function in a microarray format	guignon, ernest fitch	Ciencia, Inc.	R41ES026245
Mechanistic Study of Developmental Neurotoxicity on 3D Cultured Stem Cell Microarrays	lee, moo-yeal	Cleveland State University	R01ES025779
Metabolomics Profiling of Biological Responses to Changes in Air Pollution Levels	mu, lina	State University Of New York At Buffalo	R21ES026429
Methods for modeling air pollution effects on exhaled biomarkers	eckel, sandrah proctor	University Of Southern California	K22ES022987
Microfluidic Chips for Biomonitoring	wang, daojing	Newomics, Inc	R44ES022360
Modeling Environmental Impacts on Bronchiolitis in the Presence of Spatial Uncertainty	heaton, matthew	Brigham Young University	R03ES025295
Molecular Analysis and Precision Medicine in Renal Cell Carcinoma	johnson, michael hiroshi	Johns Hopkins University	K01ES026838
Multi-scale data integration frameworks to improve cancer outcomes	itakura, haruka	Stanford University	K01ES026832
Multiparametric Prediction of Vasospasm after Subarachnoid Hemorrhage	park, soojin	Columbia University Health Sciences	K01ES026833
New Tools for the interpretation of Pathogen Genomic Data with a focus on Mycobacterium tuberculosis	farhat, maha	Massachusetts General Hospital	K01ES026835
Non-Animal Test Method To Determine The Ocular Safety Of Consumer Products and Chemicals	lebrun, stewart	Lebrun Labs, Llc	R43ES025501
Nonparametric Bayes Methods for Big Data in Neuroscience	pearson, john	Duke University	K01ES025442
Novel Methods to Identify Momentary Risk States for Stress & Physical Inactivity	coffman, donna lynn	Temple Univ Of The Commonwealth	K01ES025437
Novel Reagents and Methods for Rapid and High Throughput Detection of Aflatoxin C	wei, alan ai-ping	Agri-Analysis, Llc	R43ES024022
Optimized Metabolite Extraction, Separation, and Identification for Metabolomics	patterson, andrew	Pennsylvania State University-Univ Park	R01ES022186
Oxidative stress, Cr(VI) carcinogenesis, and prevention	shi, xianglin	University Of Kentucky	R01ES025515

Personal Envl Exposure Assmt using Wristbands for Epi Studies in Disadv Comm	anderson, kim a.	Oregon State University	R33ES024718
Personal Exposure Monitoring of the Air Pollutants as a K-12 Educational Tool	birks, john w	2b Technologies, Inc.	R44ES024031
Platform Providing Increased Throughput, Sensitivity and Specificity for Metabolo	baker, erin s	Battelle Pacific Northwest Laboratories	R01ES022190
Portable nanofluidic aptamer-SERS instrument for measurement of chemical exposure	jackson, george w	Biotex, Inc.	R44ES022303
Potential Inhaled Dose of Particulates, Biking and Cardiovascular Indicators	chillrud, steven n.	Columbia Univ New York Morningside	R21ES024734
Predictive Computational Acute Toxicity Modeling by Profiling Chemicals With Publ	zhu, hao	Rutgers The State Univ Of Nj Camden	R15ES023148
Rapid Biomonitoring of Volatile Toxins in Human Samples (BIO-VOTO)	lue, lormen	Chromologic, Llc	R43ES025526
Rapid and On-site Monitoring of Urinary Arsenic Metabolites	dweik, badawi m	Giner, Inc.	R44ES022313
Rapid response toxicology prediction platform	myatt, glenn john	Leadscope, Inc.	R43ES026909
Semiparametric Methods for Gene-environment Interaction	tchetgen tchetgen, eric joel	Harvard School Of Public Health	R01ES020337
Slow-MAS NMR Metabolomics	hu, jian zhi	Battelle Pacific Northwest Laboratories	R01ES022176
Space-time Modeling for Linking Climate Change, Pollutant Exposure, Built Environm	fuentes, montserrat	North Carolina State University Raleigh	R01ES014843
Statistical Methods for Complex Environmental Health Data	peng, roger	Johns Hopkins University	R01ES019560
Statistical Methods for Outcome-Dependent Sampling	zhou, haibo	Univ Of North Carolina Chapel Hill	R01ES021900
Statistical Methods to Assess Early Life Environmental Exposures on Child Health	song, peter xuekun	University Of Michigan	R01ES024732
The Comparative Toxicogenomics Database (CTD)	mattingly, carolyn j	North Carolina State University Raleigh	R01ES014065
The Development of a High-Throughput Assay to Screen Chemical Compounds in Human Pluripotent Stem Cell Derived Neural Cells	boles, nathan c	Athghin Biotechnology, Inc.	R41ES026224

The Role of MTF-1 as a Mediator of Ocular Toxicity	jenny, matthew j.	University Of Alabama In Tuscaloosa	R21ES026310
The role of epigenetic heterogeneity in CLL evolution	landau, dan	Weill Medical Coll Of Cornell Univ	K01ES025431
Theory and methods for interaction	vanderweele, tyler	Harvard School Of Public Health	R56ES017876
Traffic pollution, brain structure and cognitive function	wilker, elissa	Beth Israel Deaconess Medical Center	R00ES022243
Translational mixed-factor benchmark-dose risk assessment	piegorsch, walter w	University Of Arizona	R03ES027394
Using a Sequence-to-Structure-to-Function Approach to Functionally Characterize Protein Coding Missense Mutations in the Human and Rat Genomes	prokop, jeremy william	Hudson-Alpha Institute For Biotechnology	K01ES025435
VALIDATION OF AN IN VITRO ASSAY FOR ANDROGENIC ACTIVITY	yang, cathy z	Certichem, Inc.	R44ES026470
Validation and Demonstration of Point-of-Care Sensor for Multi-Metal Exposure Assessment	papautsky, ian	University Of Cincinnati	R21ES024717
Validation and application of portable particulate device in the UW Twin Registry	seto, edmund	University Of Washington	R21ES024715
Validation of Portable XRF for In Vivo Measurement of Heavy Metal Exposures	weuve, jennifer	Boston University Medical Campus	R21ES024700
Wearable Microsystem Array for Acute Pollutant Exposure Assessment	mason, andrew j	Michigan State University	R01ES022302
Wearable Ultralow Power Personal Exposure Monitor for Atmospheric Pollutants	carter, michael t.	Kwj Engineering, Inc.	R41ES024054