



# Children's Environmental Health Research Roadmap – Annual Report

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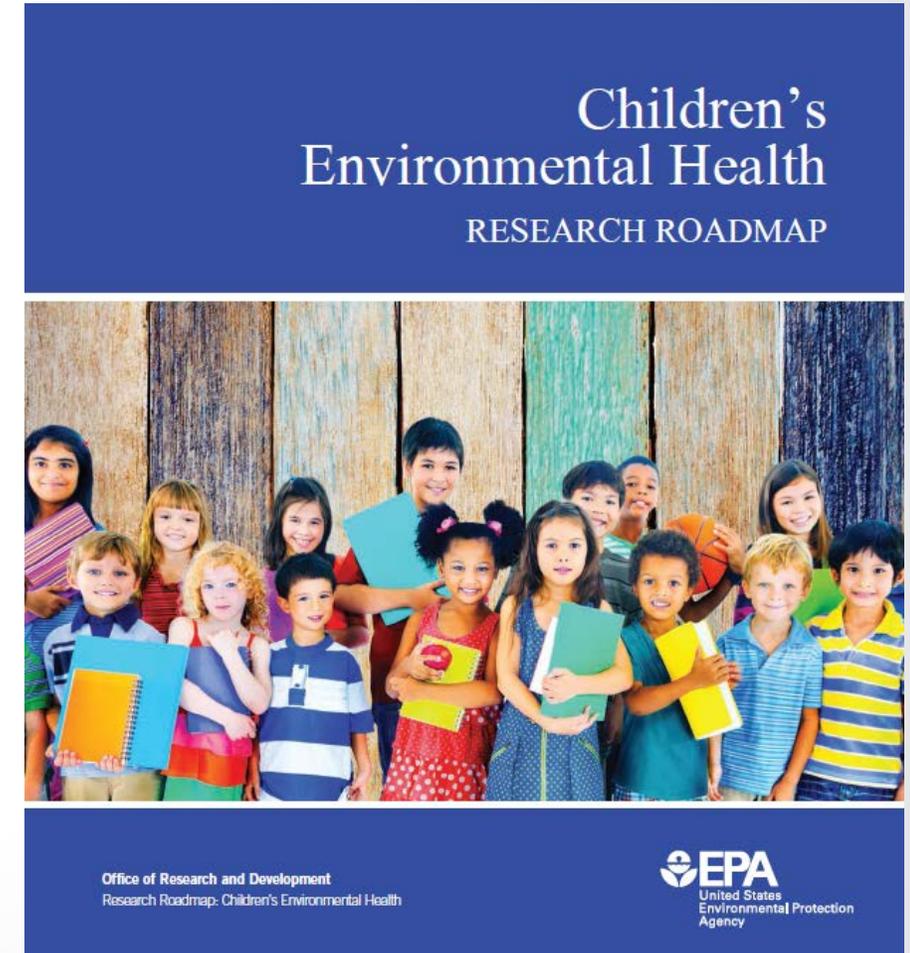
Chemical Safety for Sustainability Research Program



# CEH Research Roadmap

## Progress in FY16

- 60+ ORD publications on CEH in FY16
- Direct impacts on Agency decisions – pesticides, endocrine disruptors (EDSP)
- Research supporting key public health issues – safe drinking water, indoor air, Zika virus
- Funded 5 new Children’s Health Research centers – asthma, autism, leukemia, microbiome, nonchemical stressors
- Outreach to Program and Regional Partners through CEH Implementation Working Group





# Charge Question #1 - Integration and Implementation

## Impacts

- **Zika virus AOP**
- **Tire crumb evaluation**
- **Lead in drinking water**
- **EDSP pivot**
- **Certification of pesticide applicators**
- **Chlorpyrifos safety factor**
- **Perchlorate dose-response modeling**
- **Peer-reviewed publications**

## Innovation

- **Pathfinder Innovation Projects** – microbiome, epigenetics, brain-on-a-chip, fetal origins of disease
- **SmARTI Awards** – novel screening assays, consumer product chemical compositions
- **STAR Grants** – Children’s Centers and other CEH extramural grants

## Integration

- **Virtual Tissue Modeling Project** – intramural and extramural partnerships
- **Developmental Health** – ORD, Program and Regional Office collaborations
- **Safe Drinking Water/Indoor Air** – National Program collaborations

## Outreach

- **Scientific Advisory Boards** – low dose effects, microbiomes
- **Program Offices and Regions** – CEH Implementation Working Group
- **Public Outreach** – PEHSUs, CEH research website



# Charge Question #2 - Opportunities and Focal Points for FY17

## Opportunities

- **Chemical Safety in 21<sup>st</sup> Century Act (“new TSCA”)** – protection of potentially exposed or susceptible populations, exposure characterization, predictive capacity, mixtures, and chemical inventory reset

## FY17 Focus

- **Enhance integration of CEH Research within and across National Research Programs**
- **Integration opportunities with other Research Roadmaps – Environmental Justice, Climate**
- **Deliver research products informing EPA decisions and actions**
- **Science translation and dissemination of research products**

## Near term efforts

- **~40 peer reviewed publications in first half of FY17**
- **NRC report – Unraveling Low Dose**
- **Focus on Reproductive and Developmental health**
- **Children’s Center Meetings with NIEHS**
- **Organotypic Models meeting at SOT**



# Charge questions (extra slide)

In reviewing the cross-cutting Research Roadmap Annual Reports, please:

- Comment on areas of successful integration and implementation as articulated in the related Roadmap. This may include, but is not limited to, the following:
  - Levels of commitment to Roadmap recommendations as incorporated into the ORD StRAPs;
  - Coordination across ORD's six National Research Programs;
  - Communication and outreach to partners and stakeholders; and
  - Areas of innovation
- Provide suggestions for improving implementation of the roadmaps and research integration across the National Research Programs.
  - Are there additional opportunities for implementation or integration not highlighted in the annual report?
  - Does “The Year Ahead section” adequately describe the next steps and short-term research areas and commitment?