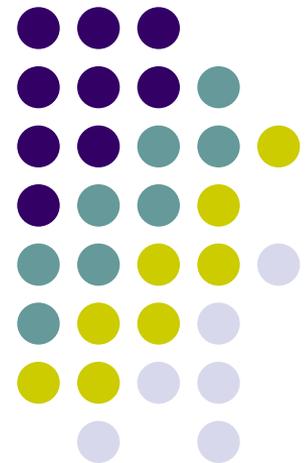


Update on CECBP Activities

Rupali Das, MD, MPH
California Department of Public Health

California Environmental Contaminant
Biomonitoring Program (CECBP)
Scientific Guidance Panel Meeting

October 6, 2009
Sacramento, California



Overview



- New staff
- State funding status
- CDC cooperative agreement
- Other program activities



New Staff

- Ngozi Erondu
 - CDC Public Health Prevention Specialist
- Robin Christensen
 - Project Coordinator
- Rebecca Chung
 - Field Investigation Coordinator

CECBP State Funding Status



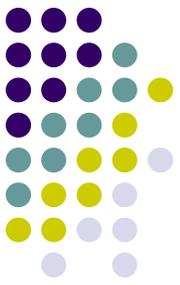
- Base level funding (\$1.9 million) for 3 departments
- Toxic Substances Control Account (TSCA)
 - Funding maintained for 2009—2010
- State funded positions: 13 FTE
- In-kind contributions
 - State staff ~4 FTE
 - Fellows:
 - Association of Public Health Laboratories
 - Council of State and Territorial Epidemiologists
 - CDC Public Health Prevention Specialist
- Workload adjustments due to mandatory furloughs



CDC Biomonitoring Cooperative Agreement

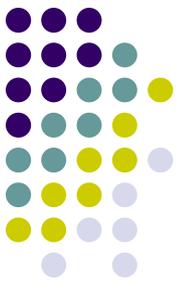
- Awards to California, New York, Washington
- 5-year cooperative agreement
- \$2.6 million to CA for first year
- September 1, 2009 start date
- Fiscal agent – Sequoia Foundation

CDC Cooperative Agreement: Objectives



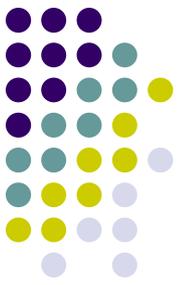
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- 5) Collaborate with stakeholders, communities

CDC Cooperative Agreement: Objectives



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CDC Cooperative Agreement: Laboratory Focus



- 7 laboratory staff to be hired
 - Staff Programmer Analyst
 - Quality Assurance Officer
 - Sample Management Officer
 - 4 Environmental Laboratory Scientists
- Purchase laboratory instruments, supplies
- CDC to provide training to lab staff
- Laboratory funding distribution
 - First year funding to CDPH laboratory
 - Subsequent funding to include DTSC laboratory

Chemicals – Environmental Health Laboratory (EHL-CDPH)



- Metals in blood and urine
- Perchlorate
- Organophosphate pesticides
- Pyrethroid pesticides
- Bisphenol A
- Phthalates
- Polycyclic Aromatic Hydrocarbons

Chemicals – Environmental Chemistry Laboratory (ECL-DTSC)

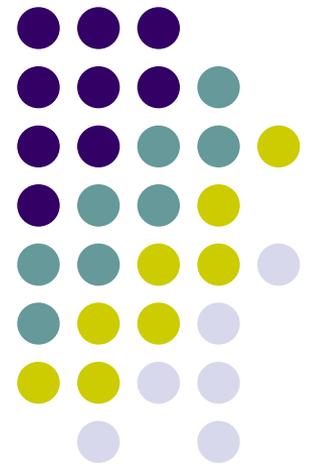


- Polybrominated diphenyl ethers (PBDEs)
 - Hydroxylated PBDEs*
- Other brominated/chlorinated flame retardants*
- Perfluorinated chemicals
- Cyclosiloxanes**
- New chemicals (to be determined)

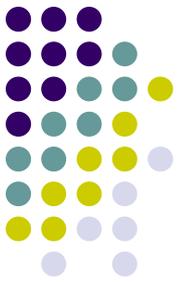
* New method being developed

**Method to be developed

**Questions or comments
about these specific
laboratory components
of the CDC
biomonitoring
cooperative agreement?**



CDC Cooperative Agreement: Objectives



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Lab Support for Targeted Studies

1. Environmental Health Tracking

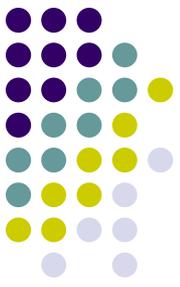


- Tulare - Organophosphate pesticides
 - Chlorpyrifos, to be determined**
- Imperial - Perchlorate and metals
 - Split urine samples with CDC labs
 - Methods validation with split samples*
- Additional collaborations to be defined

* Enhancement allowed by CDC cooperative agreement

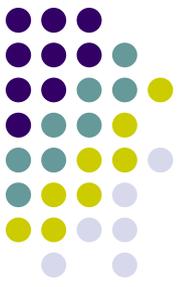
Lab Support for Targeted Studies

2. CYGNET



Cohort of Young Girls' Nutrition, Environment, and Transitions

- Environmental, genetic, other factors during onset of female puberty as breast cancer risks
- Baseline blood and urine collected in 2005 from > 400 girls (6-8 yrs)
- Proposed analytes of interest – organophosphate pesticides, metals in urine
- Assess levels of chemicals in urine over time

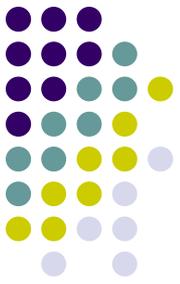


Support for targeted studies

3. Maternal and Infant Environmental Exposure Project (MIEEP)

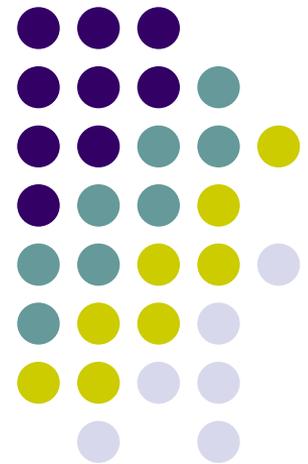
- Measure and compare levels of chemicals in pregnant women and their infants
 - Recruit pregnant women at San Francisco General Hospital
 - Collect blood and urine from ~100 pregnant women and fetal cord blood samples
 - Initial processing, specimen shipping to EHL
 - Analysis of selected chemicals by CECBP labs
 - Data analysis and report generation

MIEEP Items for SGP Input

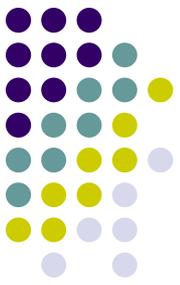


- Determine chemicals of interest
- Questionnaire development and testing

**Questions or comments
about exposure
investigations to be
supported by the CDC
biomonitoring
cooperative agreement?**

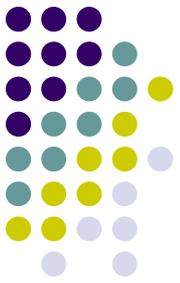


CDC Cooperative Agreement: Objectives



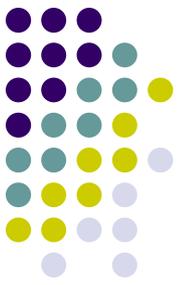
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- 5) Collaborate with stakeholders, communities

Lab Support to Assess Exposures in a Representative Group of Californians



- Feasibility of accessing stored biospecimens collected statewide or regionally
 - Utility of biospecimens for chemical analysis
 - Costs to obtain and analyze
 - Appropriate sampling strategies
- Genetics Disease Branch/CDPH
 - maternal serum, newborn screening blood spots
- Kaiser Biobank Repository

CDC Cooperative Agreement: Objectives



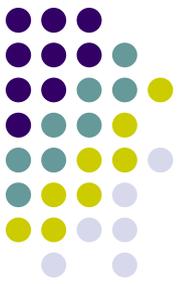
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Engage and Collaborate With Stakeholders and Communities



- Targeted biomonitoring investigations and results communication
- Biomonitoring primer brochure
- CECBP program website review

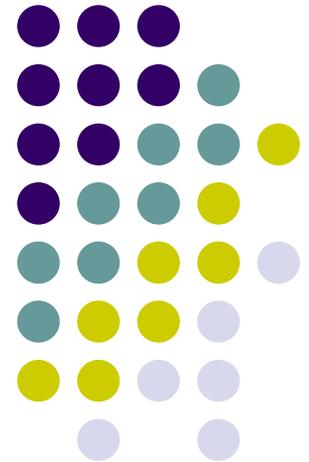
CDC Cooperative Agreement Summary



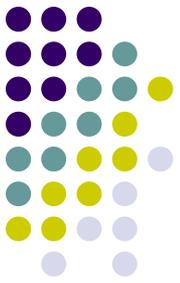
- Laboratory analysis of urine and blood
- Collaborations
 - Environmental Health Tracking Program
 - CYGNET
 - Archived biospecimens
 - MIEEP
- Develop biospecimen and field data collection instruments and protocols, outreach materials

Questions or comments about CDC

Biomonitoring Cooperative Agreement?



Ongoing Program Efforts



- Chemical selection
- Public participation plan
- Hire new staff
- Legislative report (due January 1, 2010)

Questions?

