How Biomonitoring California Can Inform Green Chemistry

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Green Chemistry Through the Lens of Public Health

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BIOMONITORING CALIFORNIA

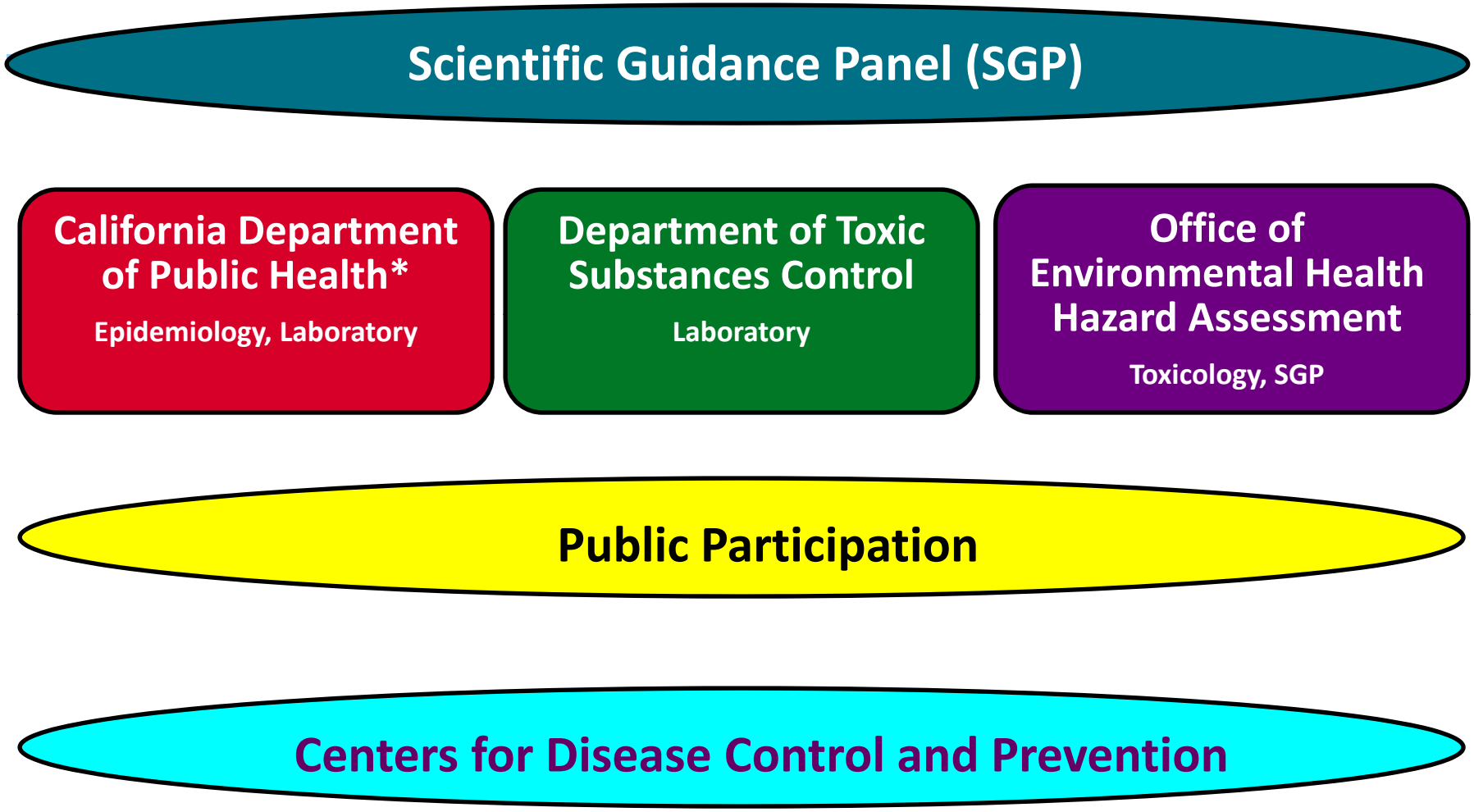
California Environmental Contaminant Biomonitoring Program
a.k.a. Biomonitoring California

- Determine levels of chemicals in Californians
- Establish trends in the levels over time
- Assess effectiveness of public health efforts and regulatory programs

CA Health and Safety Code, Article 8, Section 105440 et seq., 2006

www.biomonitoring.ca.gov

Biomonitoring California Structure



*Lead Agency

Biomonitoring And Public Health

Measure chemicals in people

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Understand the effect of chemicals on health

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Inform environmental and health policies

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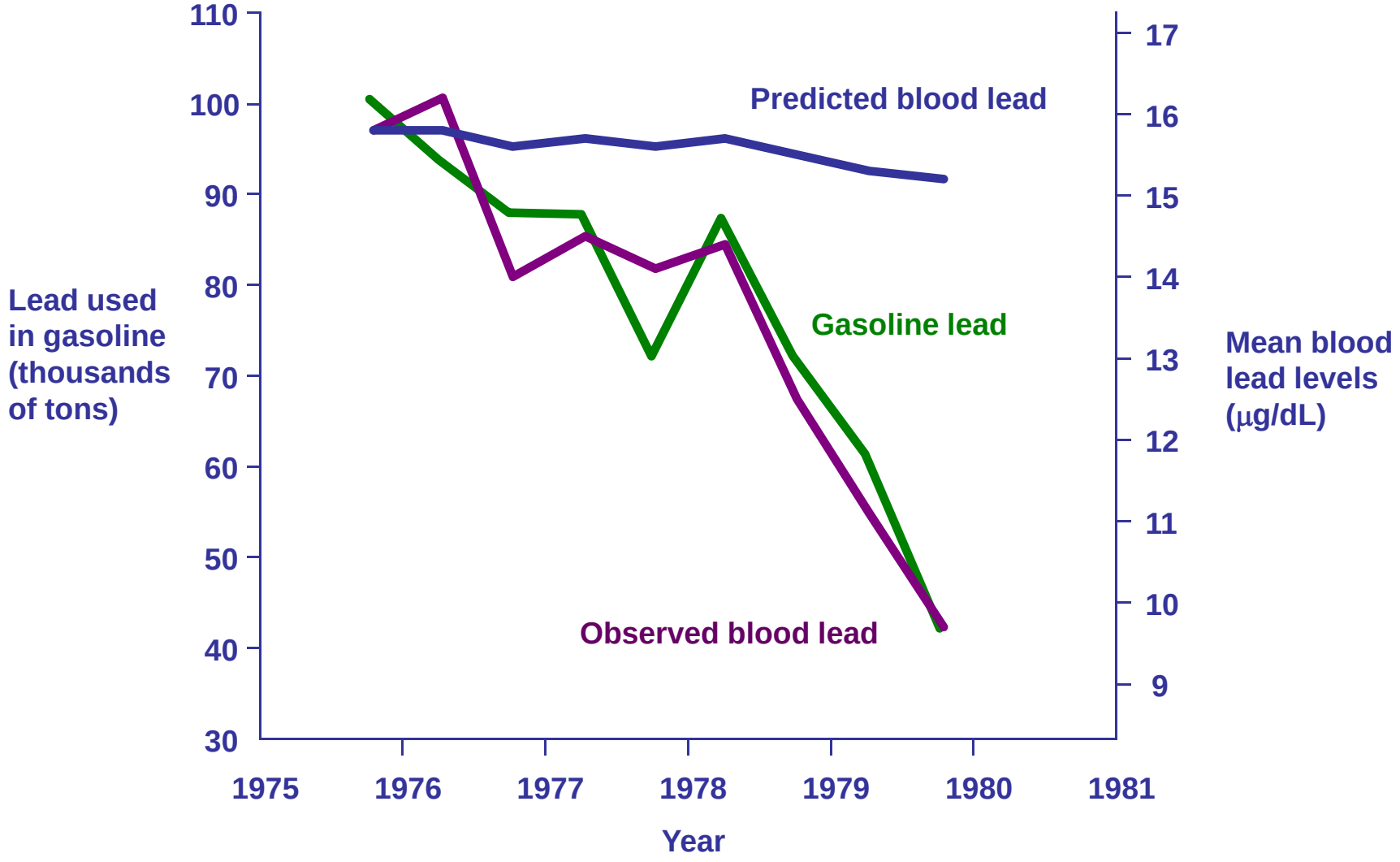
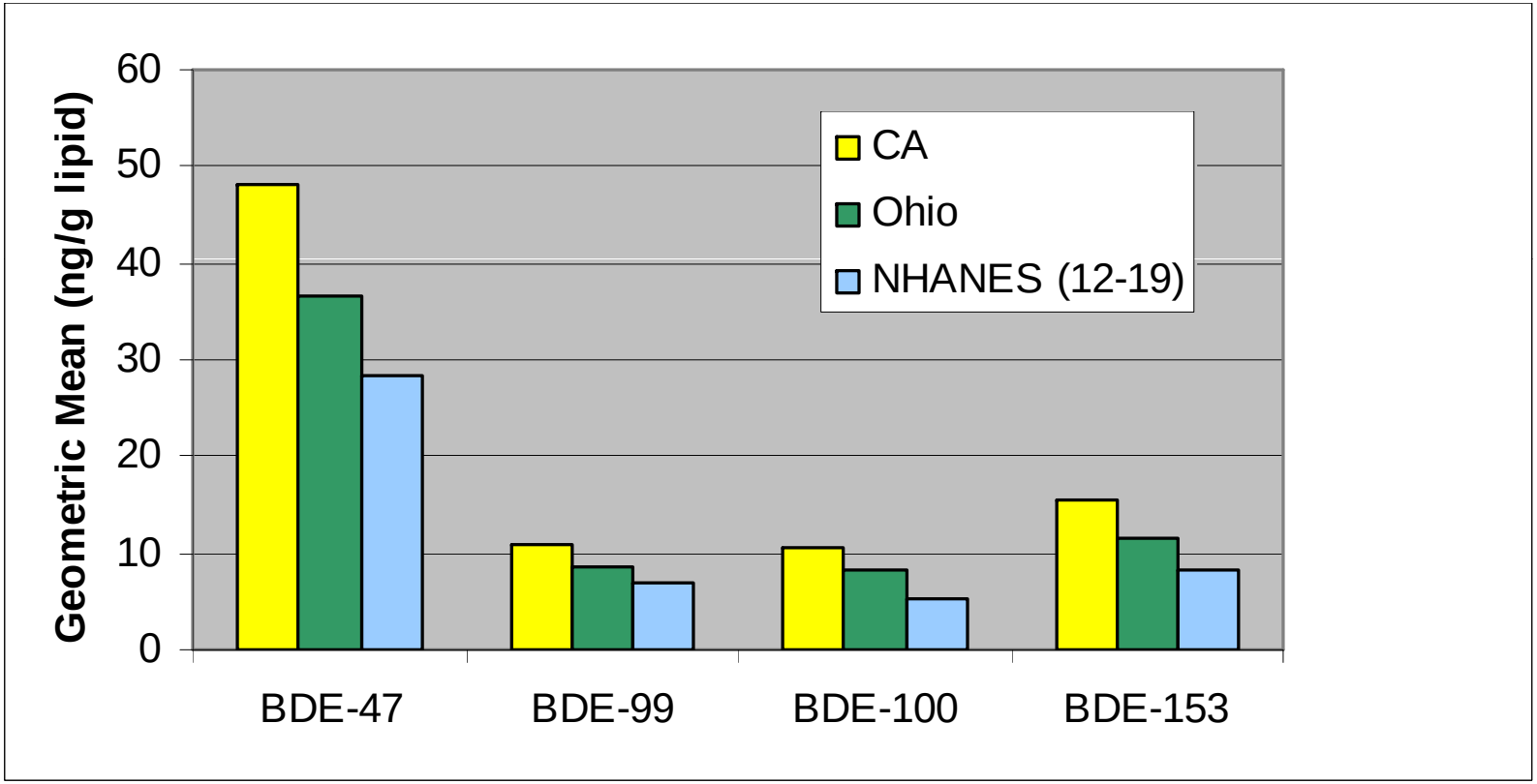
Healthier Californians

Blood Lead Levels : Biomonitoring Shows Public Health Success



Biomonitoring for Emerging Hazards:

Flame Retardant (PBDE) Levels In Young Girls Highest in California



National Health And Nutrition Examination Survey (NHANES) 2003-04

Windham. Environ Res 2010; 110:251-257.

Biomonitoring California and Green Chemistry

Common Elements

- Primary prevention
- Fill data gaps
- Inform public policy

Biomonitoring California and Green Chemistry

Areas for Collaboration

- Prioritization of chemicals
- Data unique to California
- Evaluate effects of regulations