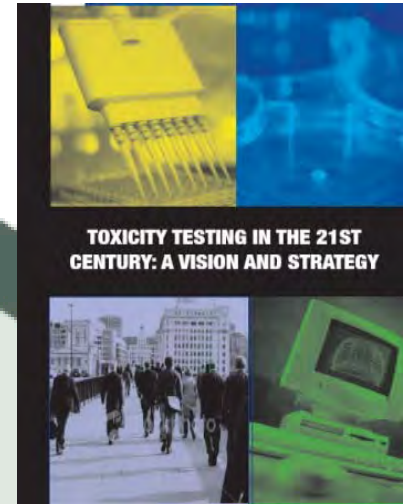
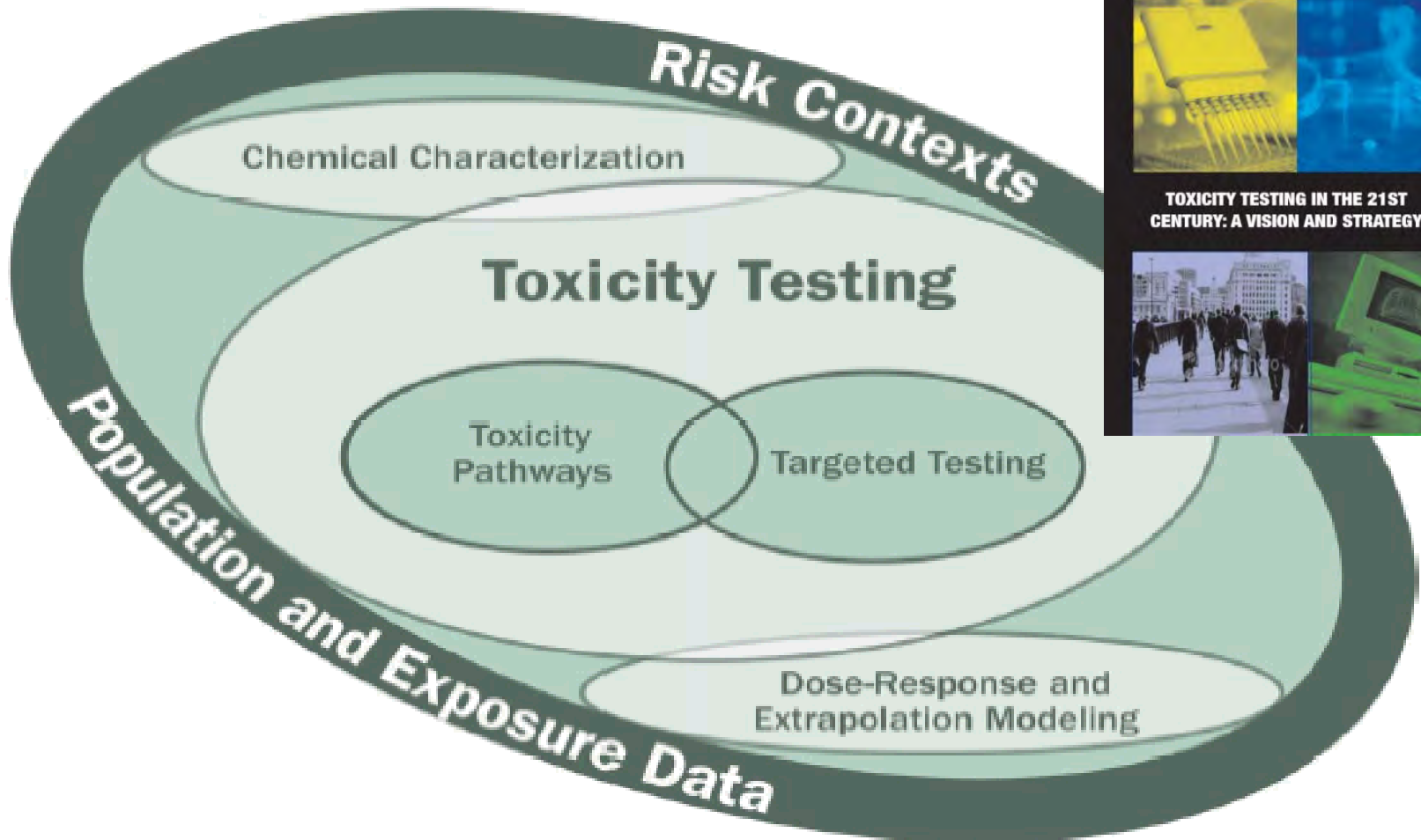


US EPA ARCHIVE DOCUMENT

2007 NRC Toxicity Testing in 21st Century: A Vision & Strategy



PPDC Workgroup: 21st Century Toxicology/New Integrated Testing Strategies (established 2008)

▶ Objective


- Focus on communication & transition issues as EPA phases in new molecular and computational tools

Key transition activities include: identifying other internal and external applications of this 'new' science (e.g., improving agency decision-making capability by harnessing new data streams and **developing new diagnostic tools and biomarkers**) and providing process recommendations to transition to the new testing paradigm.

PPDC 21st Century Workgroup

- ▶ FACA Stakeholder Workshops on Key Areas
 - December 13, 2010 – OPP’s Strategic Vision: Integrated Testing and Assessment Strategies: Transitioning Research to Regulatory Practice
- October 11, 2011 - Diagnostic Tools & Biomarkers in Pesticide Medical Management, Exposure Surveillance, and Epidemiologic Research
 - State-of-the-Science, Challenges, and Opportunities

October 11th Biomonitoring PPDC Workshop

- ▶ Scientific Program
 - Critical Scientific Issues For Tool Development and Interpretation
 - Need and Role - Biomarkers of Exposure For Pesticides
 - State of the Science
 - ▶ Panel Discussion
 - Challenges, opportunities, and next steps for solutions
- 

October 11th Biomonitoring PPDC Workshop

- ▶ Critical Scientific Issues for Tool Development and Interpretation of Monitoring Results
 - Pharmacokinetic considerations & evaluating exposure
- ▶ Tools for Diagnosis and Biomarkers of Pesticide Exposure: The Need and Role
 - Identification and Management of Pesticide Overexposure
 - Surveillance and Epidemiologic Research
 - Environmental Justice; Research on Vulnerable Populations
 - Case Study: Washington State Cholinesterase Monitoring

October 11th Biomonitoring PPDC Workshop

- ▶ The State of the Art
 - Medical Diagnostic Tools
 - Tools of Surveillance and Epidemiologic Research
 - Promising Analytical Tools

October 11th Biomonitoring PPDC Workshop

- ▶ Panel Discussion -- Advancing Diagnostic Tools & Biomarkers: Challenges, Opportunities, and Next Steps for Solutions
 - Carol J. Burns, PhD, MPH, The Dow Chemical Company
 - Suzanne C. Fitzpatrick, PhD, DABT, Senior Science Advisor, Office of the Commissioner, Office of FDA Chief Scientist, USFDA
 - Erik R. Janus, Technical & Regulatory Analyst, Steptoe & Johnson LLP
 - Matthew C. Keifer, MD, MPH, Dean Emanuel Endowed Chair, National Farm Medicine Center, Marshfield Clinic Research Foundation, and Co Director, Upper Midwest Agricultural health and Safety Center
 - Amy K. Liebman, MPA, Director of Environmental and Occupational Health, Migrant Clinicians Network
 - Marylou Verder-Carlos, PhD, DVM, MPVM Assistant Director, Department of Pesticide Regulation Sacramento, California

Next Steps as a Workgroup

- ▶ October 11th Workshop
 - Develop a Proposal to Advance the Issue of Biomarkers for PPDC Consideration & Input
 - Workshop Summary Report for OPP Website
 - Discuss other ideas for a Fall 2012 FACA Workshop
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