

US EPA ARCHIVE DOCUMENT

July 19, 2012
PPDC 21st Century Toxicology/New Integrated Testing Strategies Workgroup
Meeting Minutes
Time: 1:00 – 3:00 PM (EST)

Summary

PPDC 21st Century Toxicology Workgroup Meeting. On July 17, 2012, the PPDC 21st Century Toxicology / New Integrated Testing Strategies Workgroup met for the group's bi-monthly meeting. During the meeting the workgroup discussed two proposals presented by workgroup members, the OPP charge to the subgroups on biomonitoring and received a briefing on the current status of the ILSI TTC project for antimicrobial pesticides. The meeting began with a discussion on a proposal to revisit, augment and implement metrics for progress on *in vitro* testing in OPP by setting specific goals and measuring progress to achieve those goals in the context of acute studies. The second proposal focused on potential topics and speakers for a 2-day FACA meeting in Spring 2013, at the earliest, that will focus on Tox21 tools currently being utilized and/or considered by EPA and case studies on those tool. The workgroup also discussed the OPP charge to the biomonitoring subgroups, defined in response to the proposals presented to the PPDC in May 2012. The first action item of the now combined subgroups is to assemble an expert group, with the help of the agency, and develop a list of priority pesticides for biomarker development. Lastly, Richard Canady from International Life Sciences Institute Research Foundation (ILSI-RF) presented a briefing to the workgroup on the Antimicrobial Threshold of Toxicological Concern (TTC) Project. The goal of this project is to develop a framework for a TTC-based approach to aid in decision making and risk assessment for antimicrobial pesticides.

Attendees

Non-EPA: Patricia Bishop, Caroline Cox, Cheryl Cleveland, Erik Janus, Matthew Keifer, Tim Pastoor, Joel Paterson, Tom Moore, Virginia Ruiz, Kristie Sullivan, Catherine Willett

EPA: Jennifer McLain, Elaine Cohen-Hubal, Vicki Dellarco, Stephen Edwards, Niva Kramek, Tim McMahon, Rebecca von dem Hagen

Notable Issues/Actions/Commitments

- The ILSI Antimicrobial TTC Project briefing materials will be made available at <http://www.epa.gov/pesticides/ppdc/testing/index.html>
- OPP Charge to Subgroups on Biomonitoring:
 1. Develop priority list of candidate pesticides for developing human health pesticide biomarkers for research and clinical applications. Convene expert group and agree upon criteria for developing list.

- a. OPP will work with subgroup to identify and contact experts.
 - b. OPP will coordinate calls with expanded subgroup.
2. Create pesticide use case(s) for submission to DARPA as well as other research programs (e.g., NIEHS, EPA ORD) to encourage funding for research on rapid diagnostic methods for pesticides to enable clinical trials and point-of-need diagnostics.
 - a. OPP will work with subgroup to develop use case(s) i.e., pesticide exposure scenarios (background on the DARPA project attached below; see also email from Erik J 5/21/2012).
 - Consider priority exposure and clinical diagnostic scenarios associated with chemicals on the priority pesticide list.
3. Identify existing data relevant to diagnosing overexposure to pesticides
 - a. OPP will inquire with EU/EFSA regarding availability of biofluid analytical methods and criteria EU uses to determine when biofluid methods are necessary.
 - b. Subgroup will determine if information on existing biofluid analytical methods should be incorporated into pesticide use case(s).
 - c. Review WHO guidance “Triage and clinical management of patients with acute pesticide self-poisoning presenting to small rural hospitals”.
4. Subgroup will identify whether information on existing data relevant to diagnosing overexposure to pesticides and/or information from the WHO guidance should be included in future versions of Physician’s Handbook.

Next Meeting

The next workgroup meeting is scheduled for September 20, 2012 from 1:00 to 3:00 PM EST.