

March 2-3, 2009 Meeting of the Scientific Guidance Panel of the California Environmental Contaminant Biomonitoring Program

Panel Recommendations and Meeting Conclusions

The Scientific Guidance Panel (SGP) of the California Environmental Contaminant Biomonitoring Program (CECBP) met on March 2-3, 2009 in Sacramento. CECBP staff made presentations on a variety of issues and the public provided comments to the Panel. The SGP deliberated on and made recommendations regarding designated and priority chemicals. The Panel also provided comments on CECBP study design issues. The SGP's specific recommendations and suggested topics for the next meeting are summarized below.

Panel recommendations regarding designated¹ and priority chemicals:

1. The SGP recommended that the following chemical classes be added as designated chemicals for inclusion in the CECBP:
 - Antimicrobials approved for use in food animal production
 - Synthetic hormones approved for use in food animal production
 - Cyclosiloxanes
2. The SGP recommended that the following chemicals and chemical classes be added as priority chemicals for inclusion in the CECBP:
 - Cadmium
 - Lead
 - Mercury
 - Arsenic
 - Bisphenol A
 - 2,4,4'-Trichloro-2'-hydroxyphenyl ether (Triclosan)
 - Perchlorate
 - Diesel exhaust
 - Cotinine
 - Brominated and chlorinated organic compounds used as flame retardants
 - 3-Hydroxybenzo[a]pyrene
 - 6-Hydroxychrysene
 - 3-Hydroxyphenanthrene
 - Organophosphate insecticides already designated²
 - Polybrominated diphenyl ethers (PBDEs)³
 - Pyrethroid pesticides already designated²
 - Phthalates already designated²

1. For a complete list of the CECBP designated chemicals, visit <https://biomonitoring.ca.gov/chemicals/designated-chemicals>

2. Priority chemicals in this class include only those members that are already designated.

3. PBDEs are members of the priority class "brominated and chlorinated organic compounds used as flame retardants."

Panel input regarding CECBP study design:

1. The SGP encouraged the CECBP to consider emphasizing thyroid disruptors in the Maternal-Infant Environmental Contaminant Biomonitoring Project.
2. SGP members encouraged CECBP staff to include chemicals in the Maternal-Infant Environmental Contaminant Biomonitoring Project that are likely to be detected in the individuals tested.
3. SGP members support CECBP efforts to report results to individuals, to the larger communities from which these participants come, and to the medical community. SGP members offered to review and provide input on draft materials that would be used for results communication, once they become available.

Panel suggestions regarding discussion topics related to chemical selection for the next meeting:

1. The SGP identified pesticides as a priority for discussion at the next meeting. The Panel suggested discussing pesticides as potential designated or potential priority chemicals at the next meeting, including:
 - Pesticides that are of highest use in California and/or are used on pets or for other household purposes
 - Pesticides that are not on the CDC list⁴ to be considered as potential designated chemicals:
 - Classes of pesticides on the CDC list that are not fully designated (e.g., pyrethroids, organophosphates)
 - Specific pesticides of potential concern that are not on the CDC list and therefore not designated (e.g., fumigants, select organochlorines, select carbamates)
 - Pesticides on the CDC list to be considered as potential priority chemicals:
 - Carbamates already designated
 - Organochlorines already designated
2. SGP members would like to investigate the following types of chemicals and chemical classes as potential designated chemicals:
 - Plasticizers
 - Chloramine disinfection byproducts
 - Glycol ethers
 - Linear siloxanes
 - Chemical classes on the CDC list that are not fully designated:
 - Phthalates

4. The CDC list of chemicals can be found here:

<https://biomonitoring.ca.gov/sites/default/files/downloads/CDCChemicalsListHandout.pdf>

3. SGP members would like to consider the following chemicals and chemical classes as potential priority chemicals:
 - Perfluorinated chemicals on the CDC list and already designated
 - Cyclosiloxanes
 - Antimicrobials approved for use in food animal production
 - Synthetic hormones approved for use in food animal production
4. Additional topics the SGP would like to see discussed at the next meeting include:
 - Update on laboratory capacity relevant to designated and priority chemicals
 - Update on requesting methods development from manufacturers, or other sources, using AB 289 and other means.
 - Overview on portfolio of options by which the state can gather information on substances newly entering commerce and substances that are expected to increase in use



5. A copy of the enabling legislation, which includes the criteria for selecting designated and priority chemicals, can be found here: https://biomonitoring.ca.gov/sites/default/files/downloads/sb_1379_bill_20060929.pdf.