## THE INTERAGENCY COORDINATING COMMITTEE ON THE VALIDATION OF ALTERNATIVE METHODS (ICCVAM) PEER REVIEW PANEL EVALUATION OF THE REVISED UP-AND-DOWN PROCEDURE (UDP) FOR ACUTE ORAL TOXICITY

Blackard, BC<sup>1</sup>, Tice, RR<sup>1</sup>, Stokes, WS<sup>2</sup>, Hill, RN<sup>3</sup>

<sup>1</sup> Integrated Laboratory Systems, Inc., Durham, NC 27713; <sup>2</sup> National Toxicology Program (NTP) Interagency Center for the Evaluation of Toxicological Methods (NICEATM), National Institute of Environmental Health Sciences (NIEHS), RTP, NC 27709; <sup>3</sup>U.S. Environmental Protection Agency, Washington, DC

## **SUMMARY**

In 1999, the U.S. Environmental Protection Agency (EPA) asked ICCVAM to evaluate the validation status of the Revised UDP as a substitute for the conventional acute oral toxicity test (e.g., OECD Test Guideline [TG] 401). ICCVAM and NICEATM organized an independent scientific peer review evaluation of the Revised UDP by an international panel of expert scientists. On July 25, 2000, the Panel met in a public meeting to evaluate the extent to which the Revised UDP met ICCVAM validation and acceptance criteria and to develop conclusions regarding the usefulness and limitations of the Revised UDP. The Panel agreed that the UDP Primary and Limit Tests would perform as good as or better than the conventional LD50 test, and would also reduce and refine animal use. Based on the Panel's conclusions and recommendations, the EPA UDP Technical Task Force modified the UDP test guideline and added a computational procedure to calculate the LD50 confidence intervals (CI). The EPA also developed a software program to accompany the Revised UDP. A second meeting of the UDP Panel was convened via teleconference on August 21, 2001. The Panel endorsed the modifications to the Revised UDP, the CI calculation procedure, and the software program. Based on these conclusions, ICCVAM forwarded recommendations to Federal agencies supporting the use of the Revised UDP as a substitute test for the conventional LD50 test. Supported by NIEHS Contract N01-ES-85424.

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CONTACT: blackard@niehs.nih.gov