



Carcinogen Interaction Data Bases - Inhibitor, Binary, and Promoter — (1) ICIDB, (2) BCIDB, and (3) PCIDB

The Carcinogen Interaction Data Bases are three separate user-friendly data retrieval and searching systems for toxicology information on carcinogenesis. The data bases provide information on inhibitors of carcinogenesis, binary carcinogen interactions, and promoters of carcinogen interactions. The data base management systems were developed by EPA/OTS and SAIC.

ICIDB

BCIDB

PCIDB

ISS



System Purpose:

To help evaluate possible combination effects of chemical:

- (1) inhibitor/carcinogen pairs; (2) carcinogen pairs; and (3) promoter/ carcinogen pairs.

The systems are used to manage and retrieve information and to assist in data analysis. The systems are menu-driven user-friendly search and retrieval systems which are convenient centralized sources of virtually all relevant available data on experimental animals. The data contained in the data bases provides a basis for the analysis and identification of possible consistent patterns of interactions among various classes of (1) chemical carcinogens and chemical inhibitors of carcinogenesis; (2) classes of chemical carcinogens; and (3) promoters and chemical carcinogens.

Content:

Type of Information - compiled and edited data of: (1) inhibitor/ carcinogen; (2) carcinogen pairs; and (3) promoter/carcinogen interaction publications, including information on chemical names, CAS numbers, dosage, routes of administration, species, target organs, resulting effects, publication reference, and additional data.

Source of Information - Published data derived from (1) "Database on Inhibitors of Chemical Carcinogenesis", Bagheri, D., et al., Environmental Carcinogenesis Reviews (Journal of Environmental Science and Health Pt. C), Vol C6, 261-414, 1988-1989; (2) "Database on Binary Combination Effects of Chemical

Carcinogens", Arcos, J.C., et al., Environmental Carcinogenesis Reviews (Journal of Environmental Science and Health Pt. C), Vol C6, 1-150, 1988; (3) "Database on Promoters of Chemical Carcinogenesis", Rao, V.R., et al., Environmental Carcinogenesis Reviews (Journal of Environmental Science and Health Pt. C), Vol C7, 145-386, 1989.

Number of Records - ICIDB - approximately 2,000 records; BCIDB - approximately 1,200 records; and PCIDB - approximately 1,500 records.

Applications:

Documented - toxicological literature search for academic and hazard evaluation purposes.

User Group(s): U.S. EPA and other government agencies and researchers.

Accessibility:

Hardware Requirements - IBM PC/AT or better with a hard disk and 640 KBytes memory. A color monitor is beneficial and reports can be sent to a dot-matrix or laser printer.

Software Requirements - MS-DOS or PC-DOS version 3.3 or higher.

Availability of User Documentation:

User documentation is available.

Point(s) of Contact:

Drs. Yin-Tak Woo,
U.S. EPA Office of Toxic Substances;
Gregg Polansky (703) 734-2525, SAIC.