

TOPICS IN ENVIRONMENTAL PHYSIOLOGY AND MEDICINE

H.F. Stich and R.H.C. San

Short-Term Tests for Chemical Carcinogens



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Short Term Tests For Chemical Carcinogens

Karin Nielsen-Saines



Short Term Tests For Chemical Carcinogens:

Short-Term Tests for Chemical Carcinogens H.F. Stich, R.H.C. San, 2011-10-08 The recent surge of interest in designing validating and implementing short term tests for carcinogens has been spurred by the fairly convincing correlation between the carcinogenicity and mutagenicity of chemicals and physical agents and by the assumption that DNA alteration mutations and chromosome aberrations are somehow involved in neoplastic transformation Moreover it has been tacitly assumed that the mutagenic capacity alone of compounds would induce regulatory agencies to pass rules for their removal from the environment and would lead the public to avoid them The actual response however is quite different Governmental departments shy away from making any decisions on the basis of in vitro test systems The public at large is becoming irritated by daily announcements that many of their cherished habits could adversely affect their health Industry appears to feel threatened and may reduce its search for new beneficial chemicals The reluctance to accept wholeheartedly the mutagenicity tests for the detection of carcinogens is partly due to uncertainty about the involvement of mutations in neoplastic transformation partly due to the present difficulty of extrapolating results from various endpoints obtained on numerous organisms to man and partly due to a multitude of complex events that lead in vivo to the evolution of benign or malignant tumors

Short-Term Test Systems for Detecting Carcinogens K.H. Norpoth, 2012-12-06 The varying cancer incidence from country to country and region to region suggests that environmental factors play a considerable role in the aetiology of cancer Whether these factors in the environment moderate the effect of carcinogenic chemicals or whether they might themselves be carcinogenic is not known at the present time What is known is that there are various chemicals both naturally occurring and man made which can induce cancer in man In the Western world estimates vary as to how much cancer is occupational in origin the figures range from 1% to 40% It is our feeling that probably about 10% of cancer has a direct occupational origin Nevertheless this number is considerable and it behoves us therefore to identify those chemicals which are carcinogenic and to reduce human exposure Recent work on the mode of action of carcinogenic chemicals suggests that the majority exert their effect through an activation step to give electrophilic metabolites Such metabolites have as a common feature the ability to react with cellular nucleophiles to give covalently bound products Such reaction will occur after carcinogen treatment of animals with nucleic acids particularly in target organs It is reaction with nucleic acids that provides the basis of a number of short term tests for carcinogens since the basic composition of DNA is similar in micro organisms and in human cells

Chemical Carcinogens, 1984 *Interpretation and Extrapolation of Chemical and Biological Carcinogenicity Data to Establish Human Safety Standards* H.C. Grice, 2012-12-06 The International Life Sciences Institute ILSI is a scientific foundation which addresses critical health and safety issues of national and international concern ILSI promotes international cooperation by providing the mechanism for scientists from government industry and universities to work together on cooperative programs to generate and disseminate scientific data The members and trustees

of the Institute believe that questions regarding health and safety are best resolved when scientists can examine and discuss issues as an independent body separate from the political pressures of individual countries and the economic concerns of individual companies. Frequently meaningful assessment of the risk of a test substance is hindered by the inherent inconsistencies in the system. The development and refinement of methods and systems to evaluate the safety of chemicals have evolved in a rapid and largely unplanned fashion. Attempts to improve the system have largely been directed toward broad general concerns with little attention being given to specific problems or issues. A failure to resolve these problems has frequently resulted in increased testing costs and complications in the assessment and extrapolation of the results. Publicity surrounding toxicologic issues has created chronic public apprehension about the ability of science and government to deal effectively with these problems. In response to these difficulties, ILSI has assembled highly qualified and renowned scientists from research institutes, universities, government, and industry with relevant scientific knowledge and expertise regarding the issues that complicate risk assessment procedures.

The Efficacy of Short-term Tests for Certain Classes of Chemical Carcinogens Vincent R. Nathan, 1983

Carcinogenesis and Mutagenesis Testing J. F. Douglas, 2012-12-06

Cancer has become the most critical health problem in the United States. It is expected that 25% of the people will develop this dread disease and many of these will die from the malady. The causes of cancer are varied but the best estimate available is that 70-90% arise from environmental factors. These statistics have triggered widespread governmental action along two lines: 1. An effort to identify those chemicals and conditions that give rise to malignant processes has been mounted by the Carcinogenesis Testing Program, the National Cancer Program, and subsequently the National Toxicology Program. 2. Regulatory laws have been enacted that are administered by agencies such as TSCA, FIFRA, EPA, FDA, OSHA, and so on whose mission is to minimize public exposure to carcinogens. Since direct verification that specific chemicals induce cancer in humans is necessarily limited to known incidences, and is therefore rare, most chemicals are identified as carcinogens only by laboratory experiments. At present, the only accepted procedure is long-term animal bioassay, and not only are these studies expensive and time consuming but current worldwide resources permit the evaluation of only 300-400 chemicals per year, a minuscule amount compared to what is available in the commercial world: 30,000 existing chemicals with approximately 700 new such materials being introduced every year.

Short Term Tests for Chemical Carcinogens British Columbia Cancer Research Centre, Environmental Carcinogenesis Unit,

Chemical Carcinogenesis Claudio Nicolini, 2013-03-09

During October 18-30, 1981, the second course of the International School of Pure and Applied Biostructure, a NATO Advanced Study Institute, was held at the Ettore Majorana Center for Scientific Culture in Erice, Italy, co-sponsored by the International Union Against Cancer, the Italian League Against Cancer, the Italian Ministry of Public Education, the Italian Ministry of Scientific and Technological Research, the North Atlantic Treaty Organization, the Italian National Research Council, the Sicilian Regional Government, and two pharmaceutical companies, Zambelletti and Farmitalia.

The subject of the course was Chemical Carcinogenesis with participants selected world wide from 18 different countries. It is now eminently clear that the bulk of human cancers are related to one of several types of environmental exposure. Of the environmental hazards chemicals are among the best characterized carcinogens. However, how chemicals induce cancer is still poorly understood. Because of the magnitude of the problem and the obvious need for a much more critical scientific analysis of the process by which cancer is induced, carcinogenesis, it was highly desirable to expose a greater number of scientists with varying background to some of the latest thinking in chemical carcinogenesis. The course had this as its major objective and the resulting book does reflect it. *The international competitive implications of toxicological standards*

United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on International Scientific Cooperation, 1988. **Some Industrial Chemicals** IARC Working Group on the Evaluation of Carcinogenic Risks to Humans, 2000. This publication represents the views and expert opinion of an IARC Working Group which met in Lyon 15-22 February 2000. Carcinogenesis Abstracts, 1977. **Environmental Health Perspectives**, 1993. **Control of**

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Cancer-causing Food Additives, Time for a Change? United States. General Accounting Office, 1981. Discusses the Delaney clause of the Food, drug and cosmetic act. Cell Proliferation and Chemical Carcinogenesis, 1993. **Carcinogen Risk Assessment** Curtis C. Travis, 2013-11-11. Report of the NTP Ad Hoc Panel on Chemical Carcinogenesis [sic] Testing and Evaluation National Toxicology Program (U.S.). NTP Ad Hoc Panel on Chemical Carcinogenesis Testing and Evaluation, 1984. Application of Biological Markers to Carcinogen Testing Harry A. Milman, 2012-12-06

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