

PETER E. VOYTEK

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KEN WEST

#### EDUCATION

|      |                                                                    |
|------|--------------------------------------------------------------------|
| 1963 | B.A., Chemistry, University of Vermont                             |
| 1969 | PhD., Biochemistry, University of Vermont                          |
| 1980 | Program in Environmental Policy and Management, Harvard University |

#### POSITIONS AND AFFILIATIONS

Senior Science Advisor and Vice President, Clement International

Consultant to the Center for Environmental Health and Human Toxicology, affiliated with Georgetown and George Washington Universities

Guest research scientist, Laboratory of Molecular Microbiology, NIAID, NIH

Member of the Senior Executive Service, Acting Deputy Director of EPA's Office of Health and Environmental Assessment; Director of EPA's Reproductive Effects Assessment Group

Senior Toxicologist/Pharmacologist and Science Advisor to the Deputy Assistant Administrator for the Office of Toxic Substances, EPA

Senior Toxicologist in the Criteria and Standards Division, Water office, EPA

Senior Research Fellow at NIEHS, NCI, NIH

Research Associate/Instructor, Department of Pharmacology, Yale University

#### AWARDS

Selected into the Federal government senior executive service 1980, EPA.

Bonus for Outstanding Achievement, 1980.

NSF undergraduate summer grant for research in Physical Chemistry 1962.

RS147961

## EXAMPLES OF MANAGEMENT EXPERIENCE

- Was responsible for EPA's risk assessment program for Genetic, developmental and reproductive effects. This involved directing a group of senior scientists responsible for the development of Agency Guidelines and for conducting and overseeing all risk assessments related to mutagens and reproductive--developmental toxicants. These assessments were used to make policy decisions in regulating environmental toxicants.
- Forty six assessment documents were written by the group of which many were published in scientifically peer reviewed journals.
- Was responsible for initiating new health research directives for the Agency in cancer, mutagenicity, and reproductive research, and was assigned by the Assistant Administrator to develop an overall future health research strategy for the Agency.
- As director, dealt directly with other government agencies, special interest groups, and the public on risk assessment policy issues.
- Answered congressional inquiries for my own office, the EPA Assistant Administrator, Deputy Administrator, and Administrator dealing with health issues.
- Testified on health issues at congressional hearings and dealt with the press on issues regarding health risk assessments for genetic diseases and other reproductive effects matters.
- Interacted with other federal agencies (e.g., was the chairperson for the Interagency Regulatory Liaison Group which was made up of members from FDA, CPSC, USDA, EPA, and OSHA. Also, few other members were taken from non-regulatory agencies).
- Was the scientist of a five-member team in 1977 that was responsible for setting up the Premanufacture Review Division for assessing new chemical substances under Section 5 of TSCA.

## PROFESSIONAL SOCIETIES

Elected as a member of the American Society for Biochemistry and Molecular Biology in 1976.

R&S 147962

Chaired the planning committee for an international symposium on human and animal aneuploidy caused by chemical and physical agents. This symposium was published as a book, 1984.

#### PUBLISHED ARTICLES

Voytek, P., Gjessing, E.C.: Studies of an anionic trypsinogen and its active enzyme from porcine pancreas. *J. Biol. Chem.* 246:608-516

Voytek, P., Chang, P., and Prusoff, W.H.: Purification of Deoxythymidine Kinase by Preparative Disc Gel Electrophoresis and the Effects of Various Halogenated Nucleoside Triphosphates on Its Enzymatic Activity. *J. Biol. Chem.* 246:1432-1438, 1971

Voytek, P., Chang, P., and Prusoff, W.H.: Kinetic and photochemical studies of 2-N-methyl-5-iodo-2 deoxyuridine and other halogenated analogs of thymidine. *J. Biol. Chem.* 247:367-372, 1972

Voytek, P.: Conversion of an analytical polyacrylamide gel electrophoresis apparatus into a small preparative electrophoresis apparatus. *Anal. Biochem.* 47:629-635, 1972

Goz, B., and Voytek, P.: Arginyl-tRNA protein transferase in cultured mammalian cells: properties of the enzyme and characterization of endogenous acceptor proteins by analytical acrylamide gel electrophoresis. *J. Biol. Chem.* 247:5829-5897, 1972

Voytek, P., Cysck, R., and Prusoff, W.H.: Photopharmacology of halogenated deoxyribonucleosides. *Adv. Antimicrobial Antiplastic Chemotherapy.* 2:329-331, 1972

Weisberg, J., and Voytek, P.: Liver and red cell porphobilinogen synthetase in the adult and fetal guinea pig. *Biochem. Biophys. Acta* 364:304-319, 1974

Voytek, P.: Purification of thymidine phosphorylase and its photoinactivation in the presence of thymine and some halogenated analogs. *J. Biol. Chem.* 25:3660-3665, 1974

Ku, K., Moustafa, L., and Voytek, P.: Induced DNA repair synthesis by ultraviolet radiation in mature mouse oocytes arrested in metaphase II. *International Research Communications System.* 3:607, 1975

Clive, D., and Voytek, P.: Evidence for Chemically-Induced Structural Gene Mutations at the Thymidine Kinase Locus in Cultured Gene L5178Y Mouse Lymphoma Cells. *Mutation Research.* 44:269-278, 1977

Voytek, P., Beisler, J., Driscoll, J., and Wolpert-DeFilippes, M.K.: Studies on the cytotoxic action and metabolism of 5,6-dehydro-azacytidine and 5-azacytidine in L1210 mouse cells. *Cancer Res.* 37:2956-1977

Voytek, P.E. (1985). Introduction to Aneuploidy: Etiology and Mechanisms. Edited by Dellarò, V.L., Voytek, P.E., Hollaender, A. Pp. 1-7. In: Aneuploidy: Etiology and Mechanisms. Plenum, New York. 1985.

Clegg, E.D., Sakai, C.S., Voytek, P.E. 1985. Reproductive risk assessments. Biology of Reproductive 34:5-16. 1986.

Voytek, P., and Kozak, C. HoMuLV: A Novel Pathogenic Ecotropic Virus Isolated from the European Mouse, *Mus hortulanus*, Virology 165:469-475. 1988.

Kozak, C., Villar, C.J., and Voytek, P: Genetic Aspects of Viral Oncogenesis in Wild Mice. Critical Reviews in Oncogenesis 1:127-143, 1989.

Voytek, P., and Kozak. Molecular Characterization of a Novel Pathogenic Ecotropic virus Isolated from *Mus hortulanus*. Accepted for Publication in Virology. 1989.

Voytek, P., Anver, M. and Thorslund, T. Mechanisms of Asbestos Carcinogenicity. Accepted for publication in the "Journal of the American College of Toxicology." 1990.

Voytek, P. and Thorslund, T. Benzene Risk Assessment: Status of Quantifying the Leukemogenic Risk Associated with Low Dose Inhalation of Benzene. Accepted of publication in "Risk Analysis." 1990.

Ryer-Powder, J. and Voytek, P. Review of the Health Effects of Exposure to Chronic Levels of Ammonia. (in preparation), 1990.

#### RECENT ACTIVITIES (DOCUMENTS)

1. Quantitative re-evaluation of the human leukemia risk associated with inhalation exposure to benzene (final report-1989)
2. Summary of the workshop on the evaluation of empirical and biologically based dose response models for inhaled benzene induced leukemia (final report-1989)
3. Weight of evidence considerations for the carcinogenic potency of isophorone (final report-1989)
4. Use of the two stage model for estimating the carcinogenic risk of DEHP (draft reports-1989)
5. Derivation of improved relative potency estimates for PAHs (draft report-1989)
6. Health effects assessment of ammonia (draft report-1989)
7. Molecular aspects of asbestos carcinogenicity (final report, 1990)

## Toxicology.

Voytek, P. and Flamm, G.: Regulation Considerations of Mutagenicity Studies. Satellite Environmental Mutagen Society Meeting on Mutagenicity Studies: Three Areas of Industrial Concern. Sponsored by the University of Texas Medical Branch, Galveston. March 1-2, 1983.

Voytek, P.: Approaches for Regulatory Mutagenic Agents; Assessment of Reproductive and Genetic Monitoring in Occupational Settings. Symposium on "Reproduction The New Frontier in Occupational and Environmental Health Research." Sponsored by the University of Utah and NIOSH Sponsored Educational Resource Center. 4/5-4/8/83.

Voytek, P.: Invited speaker at the Summer Toxicology Forum for the Testing of Chemical Carcinogens/Mutagens, held 6/27-7/1/83.

Invited Symposium Speaker on Asbestos Carcinogenicity sponsored by the Risk Analysis Society, May, 1990.

Invited Speaker at the Conference on the "Scientific Basis for Carcinogenic Risk Assessment of Environmental Carcinogens" sponsored by the United States-Japan Cancer Program, March 14-15, 1991.

## SOME AREAS OF SCIENTIFIC INTEREST AND EXPERTISE

1. Protein purification (column purification procedures, isoelectric focusing, analytical and preparative electrophoresis, etc.)
2. Enzyme inhibition and kinetics.
3. Antimetabolite research.
4. DNA repair synthesis - mutation studies.
5. Interaction of chemical carcinogens and mutagens with DNA.
6. Studies on cell toxicity in tissue culture systems.
7. Synthesis, metabolism and identification of pyrimidine analogs using HPLC in cell systems - elucidation of the cytotoxic mechanisms of antimetabolites.
8. Influence of radiation on the function of macromolecules in the presence of sensitizers.
9. Effects of ionizing radiation and alkylating agents on mammalian embryonic processes.
10. Analysis of interspecies metabolic processes.
11. Determination of sensitive individuals to cancer.