

ald J. Lisk USA
mond K. Locke
SA
Magee USA
ard J. Massaro
SA
er O. McClellan
SA
ph McLaughlin
SA
ard McNamara
SA
is J. Menn USA
iel Menzel USA
ert E. Menzer
SA
I. Munn USA
A. Pfizer USA
is Ramel Sweden
e Sanner Norway
L. Sidoranko USSR
L. Sinclair UK
el Somborg USA
i. Stoewand USA
mas R. Tephly
SA
edetto Terracini
SA
Thomas USA
ryk Urbanowicz
land
ald M. Valerino
SA
ies L. Wittliff USA
derick W. Wolff
SA
er Yeary USA

fee through the
nc., 21 Congress
copying beyond
7 and 108 of the
1978 articles the

responsibility for
ion expressed in
advertisements.
Environmental
by Hemisphere

OGY AND EN-
SSN 0098-4108)
\$67.50 per year
\$33.75 per year
blishing Corpora-
.W., Washington,
age paid at Wash-
mailing offices.
ss changes to
Y AND ENVIR-
Vermont Ave.,
n, D.C. 20005.

JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH

Volume 6
Numbers 5-6
Sept./Nov. 1980

CONTENTS

OCCUPATIONAL CANCER AND CARCINOGENESIS

- v INTRODUCTION. H. Vainio, M. Sorsa, and K. Hemminki, Guest Editors
- 921 HISTORICAL PERSPECTIVES OF OCCUPATIONAL CANCER. P. Bogovski
- Part One: Current Aspects of Cancer Etiology
- 941 IMPORTANCE OF ENVIRONMENTAL AND OCCUPATIONAL FACTORS IN CANCER. John Higginson
- 953 LIFE-STYLE IN OCCUPATIONAL CANCER. A. M. Adelstein
- 963 DIETARY COMPONENTS AND CANCER. Eino Hietanen
- 971 RADIATION CARCINOGENESIS. Jorma Rantanen
- 977 SOMATIC MUTATION THEORY. Marja Sorsa
- 983 HEREDITY OF CANCER. Juhani Rapola
- Part Two: Carcinogenesis at the Molecular Level
- 989 METABOLIC ACTIVATION AND INACTIVATION OF CHEMICAL CARCINOGENS. O. Pelkonen and K. Vähäkangas
- 1001 ALKYLATION OF DNA AND CARCINOGENICITY OF N-NITROSO COMPOUNDS. Ruggero Montesano, Anthony E. Pegg, and Geoffrey P. Margison
- 1009 BINDING OF POLYCYCLIC AROMATIC HYDROCARBONS TO DNA: COMPARISON WITH MUTAGENESIS AND TUMORIGENESIS. Olavi Pelkonen, Kirsi Vähäkangas, and Daniel W. Nebert
- 1021 ASBESTOS AND METALS AS CARCINOGENS. Tor Norseth
- Part Three: Detection of Chemical Carcinogens
- 1029 IDENTIFICATION AND DEFINITION OF CHEMICAL CARCINOGENS: REVIEW OF CRITERIA AND RESEARCH NEEDS. Umberto Saffiotti
- 1059 DNA REPLICATION, REPAIR, AND REPAIR TESTS. Bo Lambert
- 1065 SHORT-TERM MUTAGENICITY TESTS. Claes Ramel and Ulf Rannug

URL 05127

Contents (continued)

- 1077 CYTOGENETIC METHODS IN THE DETECTION OF CHEMICAL CARCINOGENS. Marja Sorsa
- 1081 NEW CONCEPTS OF DESIGN AND UTILITY OF LARGE-SCALE CARCINOGENICITY STUDIES. Lawrence Fishbein

Part Four: Epidemiologic Approaches in Carcinogen Detection

- 1101 TOXICITY OF VINYL CHLORIDE AND POLYVINYL CHLORIDE AS SEEN THROUGH EPIDEMIOLOGIC OBSERVATIONS. Joseph K. Wagoner, Peter F. Infante, and Rosanne B. Apfeldorf
- 1109 CANCER REGISTRIES IN THE EVALUATION OF OCCUPATIONAL CANCER. L. Teppo
- 1115 TRANSPLACENTAL CARCINOGENS AND MUTAGENS: CHILDHOOD CANCER, MALFORMATIONS, AND ABORTIONS AS RISK INDICATORS. K. Hemminki, I. Saloniemi, K. Luoma, T. Salonen, T. Partanen, H. Vainio, and E. Hemminki
- 1127 ASPECTS OF CONFOUNDING AND EFFECT MODIFICATION IN THE ASSESSMENT OF OCCUPATIONAL CANCER RISK. Olav Axelsson

Part Five: Risk Branches in Industry

- 1133 POTENTIAL CARCINOGENIC AND MUTAGENIC INDUSTRIAL CHEMICALS. I ALKYLATING AGENTS. Lawrence Fishbein
- 1179 CHEMICAL HAZARDS IN THE PLASTICS INDUSTRY. H. Vainio, P. Pfäffli, and A. Zitting
- 1187 POLYCYCLIC AROMATIC HYDROCARBONS IN FOUNDRIES. Rainer W. Schimberg, Pirkko Pfäffli, and Antti Tossavainen
- 1195 EPIDEMIOLOGY OF LUNG CANCER IN FOUNDRIES. Sakari Tola
- 1201 TOXICOLOGICAL ASPECTS OF CHEMICAL HAZARDS IN THE RUBBER INDUSTRY. Bo Holmberg and Birgitta Sjöström
- 1211 CANCER RISK AMONG RUBBER WORKERS. Matti Hakama and Iiro Kilpikari
- 1219 CANCER HAZARDS CAUSED BY NICKEL AND CHROMIUM EXPOSURE. Tor Norseth
- 1229 ARSENIC COMPOUNDS AND CANCER. Olav Axelsson
- 1237 SISTER CHROMATID EXCHANGE AND CHROMOSOME ABERRATIONS IN LYMPHOCYTES OF LABORATORY PERSONNEL. B. Lambert and A. Lindblad
- 1245 CHLORINATED HYDROCARBONS AND CANCER: EPIDEMIOLOGIC ASPECTS. Olav Axelsson
- 1253 OCCUPATIONAL CANCER OF THE URINARY BLADDER. Sakari Tola
- 1261 ASBESTOS AND CANCER IN FINLAND. Matti S. Huuskonen
- 1267 CANCER INCIDENCE AMONG PAINTERS AND SOME ALLIED TRADES. Anders Englund

Part Six: Risk Assessment

- 1275 OVERVIEW OF SOME ASPECTS OF QUANTITATIVE RISK ASSESSMENT. Lawrence Fishbein

UPL 05128

Contents (continued)

CARCINOGENS. Marja	1297	THE MORALS OF RISK ASSESSMENT. Ralph E. Yodaiken
CARCINOGENICITY	1303	WORKER INVOLVEMENT IN RISK ASSESSMENT. Bo Holmberg
AS SEEN THROUGH	1309	THE PROBLEM OF EXTRAPOLATING FROM OBSERVED CARCINOGENIC EFFECTS TO
fante, and Rosanne B.		ESTIMATES OF RISK FOR EXPOSED POPULATIONS. Umberto Saffiotti
CANCER. L. Teppo	1327	PANEL DISCUSSION: EXTRAPOLATION FROM ANIMAL EXPERIMENTS TO HUMANS.
MOD CANCER, MAL-		Pavel Bogovski, Larry Fishbein, Bo Holmberg, Peter Infante, Ruggero Montesano, Claes Ramel,
ninki, I. Saloniemi, K.		Umberto Saffiotti, and Marja Sorsa
HE ASSESSMENT OF		Following page 1335:
		TITLE PAGE TO VOLUME 6
		CONTENTS OF VOLUME 6
		AUTHOR INDEX TO VOLUME 6
		SUBJECT INDEX TO VOLUME 6
AL CHEMICALS. I.		
. Pfaffli, and A. Zitting		
Rainer W. Schimberg,		
3BER INDUSTRY. Bo		
Kilpikari		
URE. Tor Norseth		
ATIONS IN LYMPHO-		
d		
OGIC ASPECTS. Olav		
ola		
.DES. Anders Englund		
SESSMENT. Lawrence		

URL 05129

NOTICE

Because this volume is appearing as an issue of the *Journal of Toxicology and Environmental Health* as well as a hardbound book, it was necessary to use a numbering system that would incorporate both the continuous journal page numbers and the book page numbers. The pages are double-numbered as follows: page 1 of the book is equivalent to page 921 of the journal. The numbers appear on the pages as journal page number followed by book page number in brackets.

UPL 05130

Occupational Cancer & Carcinogenesis
Ed by Harri Vainio et al.

422p.

1980

\$49.50

ISBN-0-89116-193-7

Hemisphere Publ.