CONTENTS

L. Foulds. Tumor Progression: Guest Editorial .................................................. 355
Frank Vellios and Juanita Griffin. The Pathogenesis of Dimethylbenzanthracene-induced Carcinoma of the Cervix of Rats .................................................. 364
L. H. Smith, T. Makinodan, and C. C. Congdon. Circulating Rat Platelets in Lethally X-radiated Mice Given Rat Bone Marrow .................................................. 367
L. L. Bennett, Jr., and Howard E. Skipper. Searches for Exploitable Biochemical Differences between Normal and Cancer Cells. III. Effects of Aminoimidazolecarboxamide on Purine Metabolism ............................................. 370
Horace Goldie, Matthew Walker, Alvin R. Graham, and Georgia B. Mitchell. Effect of Amino-teropterin and of ThioTEPA on Growth and Implantation of Free Tumor Cells from Ascites Tumors .................................................. 374
Z. Thaddeus Mankowski, Irene Corey Diller, and Mary E. Fisher. The Effect of Various Fungi on Mouse Tumors with Special Reference to Sarcoma 37 ........ 382
J. A. Miller, E. C. Miller, and G. C. Finger. Further Studies on the Carcinogenicity of Dyes Related to 4-Dimethylaminobenzene. The Requirement for an Unsubstituted 2-Position .................................................. 387
Charles Heidelberger, Kenneth C. Leibman, Eberhard Harbers, and P. M. Bhargava. The Comparative Utilization of Uracil-2-C14 by Liver, Intestinal Mucosa, and Flexner-Jobling Carcinoma in the Rat .................................................. 390
H. Ira Pilgrim. A Method of Evaluating Tumor Morbidity as Applied to the Effect of Ovariectomy at Different Ages on the Development of Mammary Tumors in C3H Mice .................................................. 405
Helene Wallace Toolan. Permanently Transplantable Human Tumors Maintained in Conditioned Heterologous Hosts: H. Chon. #1, H. Ep. #4, and H. Ad. #1 .................................................. 418


THE OFFICIAL ORGAN OF THE
AMERICAN ASSOCIATION FOR CANCER RESEARCH, INC.
Published by THE UNIVERSITY OF CHICAGO PRESS
SYMPOSIUM
SPONSORED BY THE AMERICAN CANCER SOCIETY

Role of Hormones in the Origin and Control of Abnormal and Neoplastic Growth

Program arranged by the
SCIENTIFIC REVIEW COMMITTEE OF THE AMERICAN CANCER SOCIETY

Held at the
WESTCHESTER COUNTRY CLUB, RYE, N.Y.
DECEMBER 13-14, 1956

PROGRAM

HARRY M. WEAVER. Foreword 422

ROY HERTZ. An Appraisal of the Concepts of Endocrine Influence on the Etiology, Pathogenesis, and Control of Abnormal and Neoplastic Growth 423

ARTHUR KIRSCHBAUM. The Role of Hormones in Cancer: Laboratory Animals 432

JACOB FURTH. Discussion of Problems Related to Hormonal Factors in Initiating and Maintaining Tumor Growth 454

PAUL E. STEINER. Discussion: Hormones in Carcinogenesis 464

F. DURAN-REYNALS. Comments on Hormones, Neoplasia, and Virus Infection 465

CHARLES HUGGINS. Control of Cancers of Man by Endocrinologic Methods 467

OLOF H. PEARSON. Discussion of Dr. Huggins’ Paper “Control of Cancers of Man by Endocrinological Methods” 473

PAUL E. STEINER. Discussion: Hormones in the Growth of Cancer 480

W. U. GARDNER. Summary of Informal Discussion of First Day 481

GERALD C. MUELLER. A Discussion of the Mechanism of Action of Steroid Hormones 490

CLAude A. VILLE. Effects of Estrogens and Anti-Estrogens in Vitro 507

O. HECHTER. Reflections about Hormone Action and Implications for the Cancer Problem 512

T. F. GALLAGHER. On Alterations in Adrenal Function, Especially with Adrenocortical Carcinoma 520

LEO T. SAMUELS. Discussion of Dr. Gallagher’s Paper 530

RALPH I. DORFMAN. Comments on the Metabolism of Steroid Hormones 535

A. LACASSAGNE. Thoughts on the Scientific Review Committee Meeting in Rye, New York, December 13 and 14, 1956 537

GUY F. MARRIAN. Summary of Informal Discussions of Second Day 539

Comment on Dr. Marrian’s Report 545