DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
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November 12, 1974

Renate D. Kimbrough, M.D.
Toxicology Section
Department of Health, Education & Welfare
Center for Disease Control
Atlanta, Georgia 30333

Dear Renate:

Enclosed is a tabulation of the rat tumors in the Aroclor studies. The final figures for the publication may vary slightly, depending upon further deliberations, special stains, etc., but these are quite accurate.

I have avoided the term hepatoma, since it has become too variable in its meaning and have instead provided descriptive terms for those lesions not having the classic appearance of liver carcinoma. However, considering the significance of the results, I define "discrete nodules" and "trabecular (basophilic) hyperplasia" as precancerous lesions and thus indicative of carcinogenic response. The few tumors you called mixed are hepatocellular with pseudoglandular formation.

You know of the Rat Liver Workshop I am having on this type of lesion on December 11-13th, and wish to thank you for the use of your material. No lesions will be identified with any specific compound, now or in the future. In fact, I selected the slides blindly to represent the spectrum of lesions and could not identify them with an agent myself.

I am inviting a limited number of guests, and would be pleased to have you attend, if you like. It is being held in the Sheraton Motor Hotel in Silver Spring, from 8:30 a.m., December 11 - 12:00 noon December 13th. I cannot pay any of your expenses, since you will not be an official participant.

Call me if you want to discuss anything further. I am sorry for the time on this Aroclor study, but my schedule and obligations have become quite overwhelming. As soon as the special stains are completed, I should be able to write the pathology descriptions and tabulations and send them to you for your consideration. We may also want to get together at that point.

Best regards.

Sincerely,

Robert A. Squire, D.V.M.,Ph.D.
Head, Tumor Pathology Section
Carcinogenesis, DCCP
National Cancer Institute

RAS:mg

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AROCLOR STUDY FINAL SUMMARY

	CONTROL	EXPERIMENTAL
Liver:		
Hepatocellular carcinoma	1/173	15/180
Diffuse hyperplasia	0/173	139/180
Discrete nodules	1/173	175/180
Vacuolar foci	20/173	50/180
Trabecular (basophilic) hyperplasia	1/173	44/180
Fibrosis	0/173	24/182
Adenofibrosis	0/173	5/180
Thyroid:		
Parafollicular hyperplasia	17/161	7/153
Parafollicular cell tumors	17/161	10/153
Adrenal:		
Nodular cortical hyperplasia	28/175	38/167
Hemorrhagic cortical cysts (ectasia)	39/175	17/167
Pituitary:		
Chromophobe adenoma	42/153	30/146
Uterus:		
Endometrial polyp	17/154	24/160
Sarcoma	3/154	7/160
Urinary bladder:		
Transitional cell papilloma	1/167	0/169
Mammary gland:		
Fibroadenoma	18/175	12/180
Adenocarcinoma	5/175	2/180

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