

March 20, 1968

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Dr. C. Alvin Paulsen
Department of Medicine
University of Washington
School of Medicine
1131 14th Avenue, South
Seattle, Washington 98114

Dear Dr. Paulsen:

We have concluded our review of your research program and have arrived at several definite recommendations for you to consider in your renewal request for 1968-69.

X-irradiation experiments at five dose levels should be concluded at the earliest possible date that valid and reliable results can be obtained. The dose levels recommended were: 7.5-10r; 25r; 50r; 100r; and 400r.

Supportive histology should be carried out where information gained will lead to an explanation of the changes in seminal values.

Standardized methods for determining hormone titers in body fluids should be established and utilized throughout the study period. This recommendation does not preclude use of new methods that will result in more precise data; however, such methods should be supplemental to the existing studies.

It was recommended that the chromosome and chromatids studies be discontinued, and serious questions were raised regarding continuation of the ultrastructural and isoantibody studies.

It is anticipated that neutron irradiation exposures will be completed within two years and that techniques already established in the x-ray studies for determining alterations in testicular function will be used for evaluating the neutron effects.

Although RBE determinations were considered conceptually important, it was the general consensus that results of the RBE studies would be only gross estimates. Therefore, attempts to refine RBE data through more sophisticated methods that would lead to prolonging the research effort or increasing the cost significantly should be discouraged.

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It was further concluded that new projects proposed and expansions of the scope of the recommended studies will be considered as new research to be judged on the basis of their feasibility, state of the art of the field, budgetary limitations, and other priorities within the overall Division of Biology and Medicine program.

You should make a cost estimate of the recommended research effort. The costs of additional studies, increase in scope, and new studies proposed will then be evaluated in part against the basic costs of the approved research.

A new effort to coordinate your studies with those of Dr. Heller should be made. It would be expected that techniques and methodologies used by the two laboratories will be as nearly identical as possible.

If we can be of assistance in formulating your research plans for this coming year, do not hesitate to contact us.

Sincerely yours,

Elmer B. Harvey
Medical Research Branch
Division of Biology and Medicine

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