

UNIVERSITY OF SOUTHERN CALIFORNIA
SCHOOL OF MEDICINE
LOS ANGELES 33
CAPITOL 1-2637

716781

*John
E. ...*

DEPARTMENT OF MEDICINE
1200 NORTH STATE STREET
BOX 138

February 4, 1960

Paul C. Aebersold, Director
Office of Isotopes Development
Atomic Energy Commission
Washington 25, D. C.

Dear Paul:

I should like to sound you out informally on a research proposal which I should like to submit to the Atomic Energy Commission, Division of Biology and Medicine.

For the past two years we have been studying potassium shifts in patients with metabolic acidosis, using Rubidium 86 as a tracer. I am enclosing a manuscript which is in press in the proceedings of the Fourth International Symposium on Radioactive Isotopes in Clinical Medicine and Research, Bad Gastein, Austria, January, 1960. I shall also publish this work in American Literature. In addition to these studies we have evolved a method of measuring total exchangeable potassium using the saliva, and Rubidium 86 as indicator. This work is about to be submitted for publication.

The two methods - plasma and red cell concentration of Rubidium 86 and salivary determination of total exchangeable potassium will give us a tool to study therapeutic measures in patients with renal shutdown and other conditions in which potassium leaves the cells and piles up in the extracellular spaces and ultimately kills the patient by its depressive action on the heart. We plan to study patients at the Los Angeles County Hospital where we have an inordinately large number of such problems. I want to submit a proposal which will include a salary for a fulltime research fellow (physician M.D.) and a technician; funds for radioactive isotopes and a small amount for expendables, such as glass ware, would be all I would need. The instrumentation at my disposal is up-to-date and adequate. There is at this time no other financial support for this project.

I feel that the Atomic Energy Commission is the suitable agency to support this project and I hope that you can advise me. The total budget would amount to \$12,000.00 a year; if this sum is more than is customarily granted I might do with one-half technician which would bring

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the total amount to \$9,000.00.

I attended the Bad Gastein meeting at my own expense and I am glad that I went because the program was of the highest caliber and I learned a great many things that we in the United States have not be doing and should have been doing. I should warmly recommend to you to attend the next meeting in 1962. I should appreciate your returning the manuscript at your convenience.

Kindest regards,

Sincerely yours,

F. Bauer
Franz K. Bauer, M. D.
Associate Professor of Medicine
Coordinator of Radioisotopes

FKB:g

I should like to stress that there are two new methods which we want to put to use.

RECEIVED
U. S. Atomic Energy Commission
Office of Isotope Development

FEB 1960

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F. Bauer

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