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FOLDER NAME	Cyclotron 60" MISC. RESEARCH	
NOTES	1946	
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BERKELEY: DONNER LABORATORY

August 13, 1946

Dr. J. G. Hamilton
Crocker Laboratory
Campus

Dear Doctor Hamilton:

The research on circulatory factors in rheumatoid arthritis, supported by the Markle Foundation, was officially started on July first. As we foresee it, the need for radioactive materials for the next six months will include Na^{24} and Au^{197} . We would like to use sodium once a week and gold once in two or three weeks.

If these materials are to be prepared on the cyclotron, we would like to request a weekly ten microampere hour deuteron bombardment for sodium and 50-60 microampere hour deuteron bombardment of platinum for gold.

I understand that these materials may be available from the Clinton pile, too, and it may save work for the cyclotron to request them from there. Both of them would have to be transported by air due to short half-life. We would like very much to use some of the five-day xenon, too, whenever this becomes available from the pile.

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Dr. Lawrence is fully aware and supports all these requests. In addition, J. Bertrand, M. D., and C. Leventhal, on our project; and Dr. Hans Waine and Dr. Bertram Low-Beer, of the U. C. Hospital, will be participating in this work. I will appreciate your letting us know the prospects for getting this material. We reached encouraging results with the sodium and gold supplied in the past.

Sincerely yours,

C. A. Tobias
C. A. Tobias

CAT:BBH

cc: J. H. Lawrence, M. D.

University of California - Berkeley
The Bancroft Library
Dr. Ernest Lawrence

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