

703852

Research Project:

THE STUDY OF IRRADIATION EFFECTS ON THE HUMAN TESTIS:
INCLUDING HISTOLOGIC, CHROMOSOMAL AND HORMONAL ASPECTS

Request for Supplemental Funds

for

AEC Contract #AT(45-1)-1781

1967-1968

Submitted By

C. Alvin Paulsen, M. D.
Associate Professor of Medicine
University of Washington School of Medicine
Seattle, Washington

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Program Director

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Authorized Signature
University of Washington

SUPPLEMENT TO AEC CONTRACT #AT(45-1)-1781

AIM: To obtain the services of a biometrician.

NEED: As our radiation exposure program progresses with the accumulation of data, there is a real need for the services of a biometrician. Previously, we had the consultation services of Dr. Blair Bennett, but due to his academic tasks he is unable to give our project the necessary time required to handle our data and make the necessary recommendations for our research format.

PROPOSAL: We have arranged to hire a qualified mathematician, Dr. Kathleen O'Keefe, to work 50% time with our group. She will be available July 1 to assume this role. This is dependent on the approval of funds to support her services. She will retain the academic position of research associate in the Department of Mathematics while working with us.

SUPPORTING DATA: The attached curriculum vitae of Dr. O'Keefe documents her qualifications for this position.

BUDGET (Supplemental):

<u>Salaries, Professional</u>	
Kathleen O'Keefe, 50% time, 11 months	
<u>Fringe benefits</u>	
<u>Indirect costs</u>	18.5% of salaries
	Total

Approved: _____
Chairman, Department of Mathematics

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AEC Contract #AT(45-1)-1781
 Revised Budget
 Contract Year 1967-1968

SALARIES

a) <u>Professional</u>		
Research Associate, Kathleen O'Keefe, 50% time		
b) <u>Non-Professional</u>		
Technician III, Donald Moore, full-time		
Technician II, Jean Hueckel, full-time		
Technician I, Margaret Couture, full-time		
Statistical Assistant, Marian Ursic, 85% time		
Lab Helper, Lois Boyle, 60% time		
c) <u>Fringe Benefits</u>	3,416	3,416

SUPPLIES

a) <u>Laboratory</u>		
Glassware	600	
Reagents	800	
Tissue culture media and supplies	1,000	
Assay rats: 1800 immature female rats @\$1.10	1,980	
Supplies for Coulter counter (saponin, replacement tubes, etc.)	300	
Supplies for Dr. Gandy		
Acetic H ₃ anhydride, 1200 mc	745	
20 β hydroxy steroid dehydrogenase, 50 mg	300	
Supplies for Dr. Vilar		
Photographic supplies	500	
Grids, etc., for electron microscope	125	
Solvents, reagents, plastic, osmium tetroxide	1,200	
b) <u>Office</u>	250	7,800

EQUIPMENT

a) <u>Replacement items and maintenance of neutron generator</u>		
Targets	620	
Deuterium gas	100	
Miscellaneous parts and tools	250	
Ion pump, refurbishing	600	1,570

TRAVEL

a) Two people, 2 times monthly to Walla Walla	2,800	
b) Four members of research project to scientific meetings	1,600	4,400

VOLUNTEER STIPENDS

a) 100 inmate volunteers @\$10/month	12,000	
b) 80 biopsies/year @\$15	1,200	
c) 15 vasectomies @\$100/inmate and \$60 contract physician	2,400	15,600

MISCELLANEOUS

a) Shipping specimen containers to and from Walla Walla	800	
b) Photomicrographs, charts, illustrations	1,500	
c) Rental, G. E. Maximar	4,358	
d) Service contract for Coulter Counter	500	
e) Communications costs	600	-7,758

INDIRECT COSTS	18.5% of salaries	6,345	<u>6,345</u>
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TOTAL 81,188

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CURRICULUM VITAE

Name: Kathleen Baxter O'Keefe
Born: Lynn, Massachusetts

Education: University of California, Berkeley, A.B., 1946
" " " M.A., 1948
" " " Ph.D., 1959

Honors: Sigma Xi
American Association of University Women, Fellowship, 1963-

Societies: American Mathematical Society
Mathematical Association of America

Positions Held: Research Assistant, Statistical Laboratory, University of California, Berkeley, 1946-49
Research Assistant, Bureau of Labor Economics, University of Washington, Seattle, 1949-50
Statistical Assistant, Department of Poultry Husbandry, University of California, Berkeley, 1950-51
Research Assistant, Department of Statistics, University of California, Berkeley, 1951-54
Instructor in Mathematics, College of the Holy Names, Oakland, California, 1954-57
Lecturer in Mathematics, Hunter College, New York, 1957-59
Acting Instructor, Mathematics, University of Washington, Seattle, 1959-60
Assistant Professor, Mathematics, University of Washington, 1960-63, 1964-67

PUBLICATIONS

1. O'Keefe, K.B.: A property of the differential ideal $[y^p]$. Trans. Amer. Math. Soc. 94:483, 1960.
2. O'Keefe, K.B.: A symmetry theorem for the differential ideal $[uv]$. Proc. Amer. Math. Soc. 12:654, 1961.
3. O'Keefe, K.B.: On a problem of J. F. Ritt. Pac. J. Math. 17:149, 1966.
4. O'Keefe, K.B.: Unusual power products and the ideal $[y^2]$. Proc. Amer. Math. Soc. 17:757, 1966.
5. O'Keefe, K.B., and O'Keefe, E.S.: The differential ideal $[uv]$. Proc. Amer. Math. Soc. 17:750, 1966.
6. Hillman, A.P., Mead, D.G., O'Keefe, K.B., and O'Keefe, E.S.: Ideals generated by products. Proc. Amer. Math. Soc. 17:717, 1966.
7. Hillman, A.P., Mead, D.G., O'Keefe, K.B., and O'Keefe, E.S.: A dynamic programming generalization of xy to n variables. Proc. Amer. Math. Soc. 17:720, 1966.

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