

NATIONAL RESEARCH COUNCIL
COMMITTEE FOR RESEARCH IN PROBLEMS OF SEX

PROGRAM AND ESTIMATED BUDGET

FOR A

FIVE-YEAR PERIOD

BEGINNING

JULY 1st, 1928.

ESTIMATED BUDGET FOR FIVE-YEAR PERIOD, Beginning July 1st, 1928

Based on Current Rate of Expenditures.

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
<u>General Biology</u>			
University of Chicago	\$20,300.	20,000.	100,000.
Directed by Dr. F. R. Lillie			
Problem: Investigation in the biology of sex, but more especially on the nature and mode of action of the sex hormones.			
State University of Iowa	5,000.	5,000.- 10,000.	25,000. - 50,000.
Directed by Dr. W. W. Swingle			
Problem: Studies in the biology of sex.			
<u>Physiology of Sex and Reproduction</u>			
University of California	15,880.	10,000.- 15,000.	50,000. - 75,000.
Directed by Dr. Herbert M. Evans			
Problem: Studies in the physiology of sex and reproduction, but more especially, (1) the relation of nutrition to fertility, and (2) endocrine relationships, particularly hypophyseal-gonadal.			
Columbia University, College of Physicians and Surgeons	1,000.	5,000.- 8,000.	25,000. - 40,000.
Directed by Dr. Philip E. Smith			
Problem: Investigation of hypophyseal-gonadal relationships.			

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
University of Missouri	2,000.	2,000. - 5,000.	10,000. - 25,000.
Directed by Dr. Edgar Allen			
Problem: Studies in the nature and mode of action of the ovarian follicular hormone.			

Cornell University Medical College	7,500.	5,000.	25,000.
Directed by Dr. C. R. Stockard			
Problem: Studies in the physiology of sex and reproduction to determine (1) the interrelationship of the gonads and uterine reaction in the female mammal; (2) the factors modifying the normal oestrous cycle; (3) the action of the gonads and hypophysis in the development of secondary sex characters in mammals and birds; (4) the relationship of age to gonadal action in guinea pigs.			

Psychobiology (Infrahuman)

Yale University	8,000.	8,000. - 10,000.	40,000. - 50,000.
Directed by Dr. R. M. Yerkes.			
Problem: Studies in infra-human psychobiology of sex, with particular reference to (1) the development of sexual behavior in apes; (2) the experimental conditioning of sexual behavior.			

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
<u>Human Studies</u>			
Yale University	2,500.	5,000.	25,000.
Directed by Dr. Clark Wissler			
Problem: Studies of the sexual behavior of primitive and semi-primitive peoples.			
Stanford University	12,000.	5,000.	25,000.
Directed by Professor Lewis M. Terman			
Problem: Investigation of sex differences in non-intellectual mental traits.			
New York City	25,000.	25,000.	125,000.
Directed by Dr. G. V. Hamilton			
Problem: Studies in psycho-sexual development, with particular reference to marriage.			
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<u>Miscellaneous Grants</u>			
Carnegie Institution of Washington, Station for Experimental Evolution, Cold Spring Harbor, N. Y.	1,500.		
Directed by Dr. Charles W. Metz			
Problem: Studies in sex determination in Sciara.			
University of Rochester	400.		
Directed by Dr. George W. Corner			
Problem: Study of the cyclic changes in the size of the individual fibers of the uterine and tubal muscle.			

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
University of Denver	1,500.		
Directed by Doctors Robert T. Frank and R. G. Gustavson			
Problem: The isolation and purification of the female sex hormone obtained from the ovarian follicle, the corpus luteum, and the placenta.			
University of Wisconsin	2,000.		
Directed by Professor Frederick L. Hisaw			
Problem: Study of the experimental relaxation of the pubic ligament of the guinea pig.			
University of Georgia	600.		
Directed by Dr. G. Lombard Kelly			
Problem: Investigation of problems in the physiology of reproduction.			

Directed by Mrs. Evelyn Howard Miller	500.		
Problem: Investigation of the relationship of the adrenal cortex and the gonads in monkeys.			
University of California	500.		
Directed by Professor Ruth Okey			
Problem: A study of menstrual variations in the inorganic constituents of the blood.			

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
Occidental College	300.		
Directed by Professor Raymond M. Selle			
Problem: Study of the effects of various endocrine glands on the development and function of the reproductive system of the female white rat.			
Johns Hopkins University	2,500.		
Directed by Dr. Knight Dunlap			
Problem: Investigation of copulatory behavior in the Albino rat.			
Stanford University	300.		
Directed by Dr. Calvin P. Stone			
Problem: The study of the effects of castration on the sexual behavior of female monkeys.			
Stanford University	2,500.		
Directed by Dr. James R. Slonaker			
Problem: Studies in the physiology of sex with particular reference to (1) the problem of pseudo-pregnancy, and (2) the measuring by means of growth and voluntary activity of induced sexual changes, such as gonadal transplants and injections, hysterectomy, ovariectomy, vasectomy, and castration.			
	12,600.	15,000.	75,000.

	<u>Current grant</u>	<u>Estimated per yr.</u>	<u>Total 5-yr. period</u>
<u>Administration and Promotion</u>	11,400.	15,000.	75,000.

Budget

Salaries	10,000.
Rent	1,500.
Conference and travel . . .	3,000.
Supplies	500.
	<u>15,000.</u>

SUMMARY

General Biology	25,300.	25,000. - 30,000.	125,000. - 150,000.
Physiology of Sex	26,380.	22,000. - 33,000.	110,000. - 165,000.
Psychobiology (Infrahuman)	8,000.	8,000. - 10,000.	40,000. - 50,000.
Human Studies	39,500.	35,000. - 35,000.	175,000. - 175,000.
Miscellaneous Grants	12,600.	15,000. - 15,000.	75,000. - 75,000.
Administration and Promotion	<u>11,400.</u>	<u>15,000. - 15,000.</u>	<u>75,000. - 75,000.</u>
	123,180.*	120,000. - 138,000.	600,000. - 690,000.
Contingency		<u>20,000. - 20,000.</u>	<u>100,000. - 100,000.</u>
		140,000. - 158,000.	700,000. - 790,000.

* This includes \$25,000 allotted by the Bureau of Social Hygiene for the support of Dr. Hamilton's studies in human psychosexual development.

I. Introductory Statement

The following formulations on program and budget for sex research will be more intelligible, perhaps, if they are prefaced by a brief restatement of objectives and general principles which have guided the Committee in its direction of this work.

From the beginning the central objective has been the promotion and coordination of research to the end that a better understanding of human sexuality may be obtained and that social, educational and medical needs may be met with an increasingly adequate body of fact. The Committee did not interpret this to mean that its efforts should be directed toward technological ends solely. The need for knowledge applicable to pressing social and medical problems was realized and it was agreed that whenever such problems could be studied under conditions that gave promise of yielding useful results, they should be undertaken. Serious consideration has been given to such problems during the past five years. The chief reason why more has not been accomplished in this direction is that qualified investigators have not been available. The Committee has not been content simply to add to the already considerable body of information on human sexuality, much of which has been obtained by doubtful methods, and which is open therefore to question. It believes that this policy has been justified by the initial results of Dr. Hamilton's exploratory research in marriage, and that if this type of investigation can be continued it will yield results of profound significance.

Modern science, particularly experimental medicine, has shown that the greatest benefits to mankind have come from fundamental researches, the implications of which could not be foreseen. The progress which has been made to-date lends support to the belief that in this field similar results may be expected.

For this reason the Committee believes that its program should be extensive and include the systematic study of those underlying factors, - biochemical, biological, physiological and psychological - which are basic to an understanding of sex in its human aspects.

In the development of its program, the Committee frankly has felt its way. Its policy has been to find interested and qualified investigators; to utilize existing research facilities wherever possible; and to influence young investigators of promise to shape their training for work in some phase of this field. It has also endeavored to centralize research on related problems in existing institutions. At present important centers have been formed in the University of Chicago, the University of California, Cornell University Medical College, Yale University, and Stanford University. There is prospect that conditions may be shaped during the next few years to warrant increasing these centers to include the State University of Iowa, the College of Physicians and Surgeons of Columbia University, the University of Rochester, and the University of Edinburgh, Scotland. The results of Dr. Hamilton's initial research in marriage have revealed a number of directions in which this phase of the work might profitably be developed. The nature of the problems is such, however, as to preclude the possibility of a University relationship, at least at present. The need of centralizing this type of research under the direction of a highly qualified person is clear, and it should be done as soon as such a person can be found and funds are available.

II. Program and Budget

The following is the program and budget for the current year, together with an estimate for a five-year period, beginning July 1st, 1928. A contingency item of \$100,000 for the five-year period is included to provide for the growth of existing centers, the development of additional ones as indicated above, and for the support of new work, if and when conditions warrant.