

The University of Chicago

G31

Department of Physiological Chemistry  
and Pharmacology

November 26, 1928

Mr. Frederic Woodward  
Office of the President  
Faculty Exchange

My dear Mr. Woodward:

It was a very great pleasure  
to me to be given the opportunity to  
report our work at the Institute of  
Chemistry last summer. I wish to thank  
you both for my husband and myself for  
your expression of interest in our ac-  
tivities.

Cordially yours,

*Elizabeth M. Koch*

EK:EM

Elizabeth Koch



November 17, 1928

My dear Mr. Whitmore:

Thank you very much for your letter of November 19 expressing appreciation of the service of Dr. A. L. Tatum and Dr. Elizabeth M. Koch at the Institute of Chemistry held last summer.

Yours cordially

FREDERIC WOODWARD

Acting President

Mr. Frank C. Whitmore  
National Research Council  
21st Street and G, NW  
Washington D.C.

November 11, 1958

Mr. Lester M. Milgram:

Thank you very much for your

letter to November 19 concerning application to file  
suit against Dr. Teller and Dr. Hirschberg. Now  
as the Institute of Cytology has just submitted

Yours sincerely

HERBERT GOODMAN

Yours sincerely

Mr. Lester M. Milgram  
National Research Council  
521 First Street NW  
Washington D.C.

November 17, 1928

My dear Mrs. Koch:

I am glad to tell you that I am  
in receipt of a letter from Mr. Frank C. Whitmore,  
expressing the deep appreciation of the American  
Chemical Society in its good fortune in having you  
as one of the speakers at the Institute of Chemistry  
last summer.

Yours cordially

FREDERIC WOODWARD

Acting President

Mrs. Elizabeth M. Koch  
1534 East 59th Street  
Chicago, Illinois

September 17, 1928

My dear Mrs. Hooper

As I said you will often see me I  
remembered to write to Mr. Frank C. Williams  
and to his wife who are very kind people  
and to his son who is a good boy and has  
been a member of our church for many years.  
I am sending him a copy of the book I  
have written.

Yours sincerely

FREDERIC WOODWARD

A. O. Smith

Montgomery, N.Y.

Sept. 17, 1928  
Dear Mr. Hooper,  
I am sending you a copy of my  
book "The Story of the First World War".



COMMITTEE IN CHARGE

C. E. KENNETH MEES  
Eastman Kodak Company  
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Northwestern University  
President Fred Woodworth,  
University of Chicago  
Chicago, Illinois.

SECOND SESSION  
JULY 23-AUGUST 18, 1928  
EVANSTON, ILLINOIS

G31

THE INSTITUTE OF CHEMISTRY  
OF  
THE AMERICAN CHEMICAL SOCIETY

November 19, 1928

Dear President Woodworth:

The second session of the Institute of Chemistry of the American Chemical Society which met last summer in Evanston is now a matter of history. It appears that it served a very useful function in arousing interest in American chemical research and related fields of activity.

The one thing which was more influential than anything else in making this Institute a success was the addresses given by the special lecturers who came to Evanston entirely without expense to the Institute. In other words, a very definite and most important contribution was made by each speaker and by the organization which he represented.

I want to take this occasion as Director of the Institute of Chemistry to express to you our appreciation of our good fortune in having had Drs. A. L. Tatum and Elizabeth M. Koch as speakers at the Institute.

Very truly yours,

Frank C. Whitmore

SECOND SESSION  
JULY 28-AUGUST 18, 1928  
NEWCASTLE, HAMPSHIRE

THE INSTITUTE OF CHEMISTRY

THE AMERICAN CHEMICAL SOCIETY

November 12, 1928

Dear Sirs:  
Please find enclosed Woodrow Wilson,  
Secretary to the President,  
Circular to Congress  
Copies, Please

Yours very truly,  
John C. Williams  
President  
The American Institute of Chemistry  
Newark, New Jersey

Dear Sirs:  
I am sending you a copy of the  
Circular to Congress, which  
was issued by the American Institute  
of Chemistry, Newark, New Jersey.  
It is a circular letter addressed to  
the members of the House and Senate  
and their staffs, asking them to support  
the bill introduced by Mr. John C. Williams  
and Mr. George W. Norris.

I enclose also a copy of the  
Circular to Congress, which  
was issued by the American Institute  
of Chemistry, Newark, New Jersey.  
It is a circular letter addressed to  
the members of the House and Senate  
and their staffs, asking them to support  
the bill introduced by Mr. John C. Williams  
and Mr. George W. Norris.

Very truly yours,

John C. Williams

*Board - May 12  
(Miscellaneous)*

COPY

F.C. Koch L.C. McGee

WHEREAS Doctors George Minot and Edwin Cohn appear to have discovered a ~~treatment of pernicious anaemia by the use of tissue, a~~ ~~physiologically active constituent in testicular~~ ~~liver, and the method of extracting the some effective substance from the liver for the purpose.~~

VOTED that with their consent the University apply for a patent, with the proviso that the University shall make no profit therefrom; that the commercial manufacturers shall ~~at such time as may be later determined,~~ be permitted to manufacture and sell the product freely under such supervision as will guarantee its purity, and that excessive profits shall not be charged to the public; it being understood also that the process may be used without restriction for all research and other scientific purposes.

The University hereby expresses the intention, if and as soon as this can be done, of depositing this patent and freely giving its privileges to some central national Governmental body, such as the United States Public Health Service, which will assume the administration of the rights and the protection of the public without profit to the holder of the patent.

---

*Handwritten notes*  
L.C. W.H.  
C.R.C.

COPY

WHICHES' before a general outline of  
the organization of the  
Government of the  
newly-formed State of  
which consists of the  
former Government of the  
State of Bihar and  
the Province of Orissa.

NOTED first with regard to the  
titles of offices and functions of  
the Government of the  
State of Bihar and  
the Province of Orissa  
that the  
titles of  
the  
offices  
and  
functions  
of  
the  
Government  
of  
the  
State  
of  
Bihar  
and  
the  
Province  
of  
Orissa  
will  
remain  
as  
now  
but  
the  
titles  
of  
the  
offices  
and  
functions  
of  
the  
Government  
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Bihar  
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Province  
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Orissa  
will  
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Government  
of  
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State  
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Bihar  
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Province  
of  
Orissa.

On the other hand, it may be  
desirable to change  
the titles of some  
offices and functions  
of the  
Government  
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State  
of  
Bihar  
and  
the  
Province  
of  
Orissa  
so  
as  
to  
make  
them  
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suitable  
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Government  
of  
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Bihar  
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the  
Province  
of  
Orissa.

The University of Chicago  
Department of Physiological Chemistry  
and Pharmacology

April 28, 1927

The Extraction of a Physiologically Active Substance from Ox Testicles.

Nature of the Problem.

Numerous attempts have been made to obtain from the testes a substance which when introduced into castrated animals would cause the development of certain secondary sex characters. From time to time very extravagant claims have been made as to the potency of such preparations, but until very recently no definite scientific evidence had actually been presented in support of such claims.

It was the need of such evidence which induced Squibb and Sons to place funds for a fellowship for one year in this department in January 1926. Mr. L. C. McGee was appointed as the fellow. The problem agreed upon was to try to obtain from testicle tissue a substance possessing some or all of the physiological properties referred to above. Neither the method of extraction nor the method of measuring the physiological activity were known.

Results Obtained.

Numerous methods of extraction were attempted and various modes of attack were undertaken in the hope of discovering a biological method of detecting and measuring the activity if actually present. We obtained some indications of partial success using certain extracts upon castrated guinea pigs and upon capons, but the results were not sufficiently satisfactory to warrant final conclusions either for or against the theories involved. It was not until January 1927 that we began to obtain clear results upon brown leghorn capons. These have been confirmed repeatedly and have been carefully compared with certain control experiments. The effects of the extract are very striking as shown by the attached photographs.

Program Arranged For.

The results are so striking and the applications thereof in sex studies so obvious that Professor Frank Lillie suggested to us the undertaking of a coöperative program with his group of workers on the sex problems. Mr. McGee and the writer heartily welcomed such a plan and as a result Professor Lillie has this week succeeded in obtaining funds from the National Research Council to support these coöperative investigations.

THE UNIVERSITY OF TORONTO  
LIBRARIES  
THE LIBRARY OF THE UNIVERSITY OF TORONTO

1911-1912

The University of Chicago  
Department of Physiological Chemistry  
and Pharmacology

-2-

Naturally work of this character when once published will attract considerable attention not only in scientific academic circles but it will also invite possible misuse of the methods and material by certain manufacturers. If manufacturers were left free to do as they pleased with the information it would probably lead to many abuses involving the general public as well as the University. To avoid this Dr. Ludvig Hektoen and Professor W. B. Cannon, both members of the National Research Council Committee for Research in Problems of Sex, urged the advisability of having the University of Chicago patent the method of extraction we have used. If the later work warrants it, and the University sees fit to do so, certain manufacturers can later be licensed to produce the material under the patent.

The same policy has been adopted in a number of cases involving similar dangers. Thus the University of Toronto patented the process for insulin extracted, Harvard University has patented the crude liver extract which is a good therapeutic agent in anemia and the Rockefeller Institute has done the same thing on several occasions.

*Hektoen*

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THE LIBRARY

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PROVIDES A WIDE RANGE OF SERVICES AND  
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COLLECTION OF OVER 10 MILLION VOLUMES,  
WHICH INCLUDES BOOKS, JOURNALS, AND  
OTHER MATERIALS. THE LIBRARY IS  
ALSO HOME TO THE UNIVERSITY'S  
ARCHIVES, SPECIAL COLLECTIONS, AND  
TECHNOLOGY DIVISIONS.

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LIBRARY BUILDING, 180 BLOOR STREET WEST,  
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ARCHIVES, SPECIAL COLLECTIONS, AND  
TECHNOLOGY DIVISIONS.

The University of Chicago  
Department of Physiological Chemistry  
and Pharmacology

Showing the atrophy after ceasing the injections and the return to growth on again injecting.



This capon had been injected from 2/1/27 to 2/10/27 with good growth of comb, measurements being:

2/1/27 ---- 4.2 x 7.7 cm.  
2/11/27 --- 5.7 x 9.7 cm.

From 2/11/27 to 3/18/27 the injections were discontinued with the results shown.

3/18/27 --- 3.4 x 6.7 cm.

The same capon received injections from 3/18/27 to 4/18/27. Comb measurements:

3/18/27 ---- 3.4 x 6.7 cm.  
4/18/27 ---- 7.2 x 11.8 cm.

John B. Bassell, A.B., D.Sc.

500.0000000000000

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COPY

HARVARD UNIVERSITY  
Medical School

April 27, 1927

Dear Professor Lillie:

Dr. Cannon has written me concerning his conversation with you regarding the discovery of the male sex hormone and the possibility of patenting it and asking me to send you the form of the patent application that we are putting in concerning the effective substance in the liver in the control of pernicious anemia. I do not have any copy of the patent application at hand, and I do not know whether the application has definitely been made or not. I do know, however, that it will follow the general form of the enclosed statement which is the resolution that the Corporation approved of and which President Lowell and I worked out together. You will note that the sole purpose of it is to protect the public against undue price and unsatisfactory production and it specifically makes the process and substance available without restrictions for all research and other scientific purposes. The University also expresses the intention of turning the patent over, if possible, to some central Governmental body. That seemed to me to cover adequately all the reasonable objections to a patent that I have ever heard of and, at the same time, to protect the public. I am temperamentally opposed to patenting for sentimental reasons, but have become quite convinced of the necessity of it through my work on the Council of Pharmacy, and other things, which showed me what constant outrages are perpetrated upon the public by using scientific discoveries of value in disease in a grasping and commercial manner; sometimes making for real hardship; sometimes impeding the progress of public health; and sometimes grossly exploiting the credulity of the public.

Very sincerely yours,

David L. Edsall, M.D., Dean

Professor Frank R. Lillie,  
Department of Zoölogy,  
University of Chicago, ILL.

DLE:D

COPY

Harvard University  
Medical School

April 24, 1954

Dear Professor Miller:

Dr. Cannon has written me concerning his  
conversations with you regarding the diagnosis of the male sex  
in our first year of life. He believes it is best to send  
to you the form of the question he is asking.  
Dear Dr. Cannon,  
I would like to ask you if you could give me some  
information concerning the best way to determine the sex of a  
newborn baby. I have heard of various methods such as  
genitalia, chromosomes, and blood tests, but I am not  
sure which is the best. I would appreciate any information  
you can give me. Thank you very much.

Very truly yours,

David P. Magill, M.D.,  
University of Chicago, IL  
Department of Surgery  
Professor Frank R. Miller

Dear Dr. Miller,  
I am enclosing a copy of my letter to Dr. Cannon.  
Thank you for your prompt response.

G28

January 15, 1927

My dear Professor Koch:

I am glad to approve the suggestion,  
contained in your note of January 6, that the  
Federal Chemical Laboratories be given the privi-  
lege of using some of our special equipment in the  
determination of hydrogen ion concentration.

Yours sincerely,

Frederic C. Woodward

Professor F. C. Koch  
Faculty Exchange

L

G-58

January 15, 1924

Mr. Dean Professor Koop:

Dear Professor Koop:  
I have just received your letter of January 8, 1924, and am sending you my  
report on the Leptothrix Chalcea paper which I have been working on.  
The results of my work are as follows:  
1. The Leptothrix Chalcea paper was found to contain a large amount of  
dead tissue which was removed by the action of the enzyme.  
2. The Leptothrix Chalcea paper was found to contain a large amount of  
dead tissue which was removed by the action of the enzyme.  
Yours sincerely,  
George C. Woodsworthy

Professor E. C. Koop  
Leontia Experiment

J

The University of Chicago  
Department of Physiological Chemistry  
and Pharmacology

January 8, 1927

Mr. F. C. Woodward  
Office of the Vice-President

My dear Mr. Woodward:

We have a request from the Federal Chemical Laboratories located here in Chicago expressing a desire to learn the use of some of our special equipment in the determination of hydrogen ion concentration as well as for using the equipment in connection with certain of their studies. This request is made by one of our former students and I recommend that we extend this courtesy to them without requiring the usual registration formalities.

*lot a  
Ph.D.*

Very truly yours,

*H. Koch*

F. C. Koch

*O.K.  
H.C.K.*

FCK:MH

*O.K.  
G.W.S.*

U.S. University of Chicago

Received by Department of Economics  
and Administration

700 S. Dearborn

Chicago, Ill., U.S.A.  
University of Chicago

1920-21

University Library  
University of Chicago  
is a collection of  
books and manuscripts  
on all subjects  
of interest to  
students and  
researchers  
in the field of  
economics.

University of Chicago

Dec. 1921



A copy of the list of researches  
in progress in Physiological  
Chemistry and Pharmacology  
as given to Dr. F. C. McLean  
to aid him in gaining the  
support of Mr. Flexner.

{c} Cocaine

(2) M. H. Seevers and A. L. Tatum

... 100-1000-00000  
Tribute to the First (a)  
and the last (a)

1936-7

G28

DEPARTMENT OF PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY.

(A) Researches in progress under the direction of Dr. A. L. Tatum.

(1) AL L. Tatum and K. H. Collins.

A Study of the Mechanism of Drug Addiction.

- (a) Morphine and codeine.
- (b) Chloral
- (c) Cocaine

(2) M. H. Seevers and A. L. Tatum

A Study of the Mechanism of Cocaine Poisoning.

(3) R. H. Whitehead

A Study of the Quantitative Variations of Active Principles in the Hypophysis Cerebri.

(B) Researches in progress under the direction of Martin E. Hanke.

I. The Chemistry of the Gastric Hydrochloric Acid Mechanism.

With Mr. G. F. Harsh.

The Purification and chemical nature of "Chlor-esterase", an acid-producing enzyme in Gastric Tissue. The distribution of this enzyme in different tissues, and in certain physiological conditions.

With Mr. C. B. Davis -

A comparative study of the amounts of acidity and chloride produced by the action of "chlor-esterase" of gastric and other tissues upon a variety of chloride esters.

With Mr. P. B. Donovan -

The fractional separation and chemical nature of the chlorides, especially organic chlorides, in gastric and other tissues.

II. The Application of the Electrometric Measurement of Oxidation-Reduction Potentials to Certain Biochemical Problems.

With Mr. J. A. Tuta -

(1) A study of oxidases by their effects on the oxidation-reduction potentials of various solutions.

1) The electrometric estimation of tyrosinase and laccase.

2) The mechanism of the action of tyrosinase and laccase.

III. With Mr. R. W. Bates -

The preparation and biochemical properties of various organic phosphates, especially glycerophosphates and hexose phosphates.

*Exhibit* F-101

DEPARTMENT OF PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY.

(A) Researches in diseases under the direction of Dr. L. T. Turner.

- (1) Dr. L. T. Turner and K. H. Coffins.  
A study of the mechanism of drug absorption.  
Monobutyric acid derivative (a)  
Citrates (d)  
Glycerine (e)

(2) Dr. K. H. Gevers and A. L. Turner.  
A study of the mechanism of cocaine toxicology.

(3) Dr. R. H. Wetherbee.  
A study of the quantitative variation of relative proportion in the hydrophobic cerebrum.

(B) Researches in diseases under the direction of Dr. L. E. Hanna.

I. The Chemistry of Gaseous Hydrocarbons and Medicaments.

With Mr. C. E. Davis.  
The physicochemical properties of "Cyclo-  
hexane" in various hydrocarbons. The  
difference between different tissues, and  
certain physiological conditions.

With Mr. C. E. Davis.  
A comparative study of the solubility and  
optokinetic reaction by the action of "cyclo-hexane"  
fixes and other tissues upon a variety of substances.

With Mr. E. B. Donavan.  
The toxicological absorption of the  
hydrocarbons of various organic  
matter.

II. The Application of the Microchemical Measurement to Oxidation.  
Reduction Potentials of certain biological systems.

With Mr. L. A. Turner.  
- which are not yet known to have a (1)  
relation to oxidation.  
I (2) The reduction potentials of the tissues  
and viruses.  
(2) The measurement of the reduction and  
oxidation.

III. With Mr. R. W. Deters.  
The preparation and properties of various organic  
compounds, especially hydrocarbons and ketones  
bases.

(C) Researches in progress under the direction of F. C. Koch.

- (1) F. W. Saunders -  
(a) Construction of a Colorimeter Involving the Use of the Photoelectric Cell.  
(b) Studies on Protein-dye Combinations.  
The Effect of the Chemical Composition of the Protein and of the pH of the Solutions upon the Dye Combinations.  
The Application of these Studies to Histological Staining.  
The Application of these Studies to the Estimation of Specific Groups and to the Structure of the Protein Molecule.
- (2) O. M. Helmer -  
(a) Methods of Estimating Trypsin.  
(b) Studies on the Purification of Trypsin.
- (3) G. V. Hallman -  
(a) Chemical changes brought about by Bacterial Action upon Meat Juices.  
(b) Factors Affecting this Bacterial Action.
- (4) H. G. Holck -  
(a) Improvements in the Benzidine Method for Sulphate  
(b) The Effect of Various Physiological States upon the Urinary Excretion of Sulphates, total phenols and Uric Acid.
- (5) L. C. McGee -  
Studies upon Physiologically Active Constituents of the Testicle.
- (6) Ruth K. Renter -  
Blood Changes in Experimental Rickets in Puppies.
- (7) Elizabeth M. Koch and Zella C. Sennewald -  
(a) The Effect of Gelatin, other "protective colloids" and various Acids upon the Peptic and Tryptic Digestion of Caseous Milk.  
(b) The Effect of such modified Milks upon Gastric Secretion in Pawlow Dogs.
- (8) G. F. Cartland -  
Studies on Organic Precursors of the Chromogen Mügety in Hemoglobin.
- (9) Zella Crews -  
The Effect of Glucose, Levulose and Invert Sugar on the Invertase Content of Yeast grown in Media containing these Carbohydrates.

(c) Researches in Progress under the direction of E. O. Hopper.

(1) W. M. Sundberg -

- (a) Contribution of a Geotriometer involving the use of the Protoplasmatic Cell.  
The Effect of the Chemical Composition of the Protoplasm on the Growth and the Action of the Hormones upon the Embryonic Compartments.  
The Application of these Studies of Histology to the Estimation of the Protein Metabolism.

(2) M. O. Hedges -

- (a) Studies on the Mechanism of Trapping.  
Mechanism of the Movement of Particles.

(3) G. A. Hartman -

- (a) Chemical changes brought about by Secretory Action upon Macerates.  
Secretory Action of this Digestive Action.

(4) H. G. Holter -

- (a) Inhibition in the Benzidine Method for Sulphur Uptake of Various Proteins upon the Maceration and Urinary Excretion of Substances, for the Measurement of Urine Acid.

(5) L. C. Megee -

- Studies upon Physiological Action of the Testicle.

(6) Ruth K. Renfro -

- Blood Changes in Experimental Ringers in Puppies.

(7) Misses M. Moor and Kellie G. Semenowsky -

- (a) The Effect of Gestation, or the "Proliferative Capacity" and various Actions upon the Body of the Embryo during the First Month of Life.  
(b) The Effect of some modifying factors upon gestative Succession in Puppies Dogs.

(8) G. E. Cattell -

- Studies on Organic Precursors of the Chromogen Problem in Hematology.

(9) Kellie Orton -

- The Effect of Glucose, Levulose and Invert Sugars on the Interphase Count in Yeast grown in Media containing the same Carbohydrates.

- (10) Dr. Harry Huber -  
The Fractionation of Pollen Extracts as related to  
Hay Fever.
- (11) W. R. Tweedy -  
(a) Improvements in the Kramer-Tisdall Blood Calcium  
Method.  
(b) Biochemical Studies on the Purification of the Para-  
thyroid Principle as Measured by Blood Calcium  
Changes.
- (12) Dr. Ida-Kraus-Ragins -  
(a) The Tryptophane Estimation <sup>in</sup> Proteins.  
(b) The Loss of Tryptophane in the Trypsin Digestion  
of Proteins or Mixtures of Certain Amino Acids.  
(c) The Electrolytic Separation of the Diamino Acids.
- (13) Dr. G. J. Rich and Kathryn Knowlton -  
The Relation of Saliva pH, Urinary Acidity and In-  
organic Urinary Phosphates to Various Psychological  
Observations.
- (14) Elizabeth M. Koch and M. Cahan - {In cooperation with the  
University of Illinois}  
Biochemical Studies on the Antirachitic Vitamine.  
(a) The Concentration and Differentiation of the  
active Fraction from Irradiated Cholesterol.  
(b) Changes in Blood Phosphate Concentration in  
Experimental Rickets in Rats.
- (15) N. L. Hoerr -  
Correlation of Histological Changes with Chemical  
Changes in the Suprarenal Glands.
- (16) E. Larson -  
Biochemical Studies on the Purification of the Oxy-  
tocic Principle of the Pituitary Gland.
- (17) B. E. L. French -  
Adsorption and Purification Studies upon Rennin.
- (18) With A. B. Luckhardt and M. M. Weaver  
The Separation of Pancreatic Secretin  
from the Vaso-dilatine.

(10) Dr. Herta Huber -  
The Histocompatibility of Boiled Extracts as Related to  
Hepatitis.

(11) W. R. Sweeley -  
(a) Immunoreactions in the Kinsler-Tietz's Blood Clotting  
Medium.  
(b) Biocompatibility Studies on the Multicellular Blood Clotting  
Tissue Bioprobe as Measured by Blood Clotting  
Changes.

(12) Dr. J. D. Hamer-Barlow -  
(a) The Thalidomide Retention in Man.  
(b) The Loss of Thalidomide in the Thalidomide Disease  
of Patients or Mixtures of Certain Amino Acids.  
(c) The Histocompatibility Studies with the Disease Amino Acids.

(13) Dr. G. L. Ried and Hartman Romm -  
The Relation of Stability Avidity and In-  
trinsic Unusual Properties of Various Biological  
Oxidations.

(14) Hislopell M. Moon and M. Gains -  
(In cooperation with the University of Illinois).  
Biocompatibility Studies on the Anticoagulative Action.  
(a) The Coagulation and Thrombolytic Action of the  
relative Inhibition from Interfered Oxygense.  
(b) Changes in Blood Properties Coagulation in  
Experiments in Rats.

(15) M. I. Hecht -  
Correlation of Histological Changes with Chemical  
Changes in the Substantia nigra.

(16) E. Larson -  
Biocompatibility Studies on the Multicellular  
Tissue Bioprobe of the Pituitary Gland.

(17) B. H. I. Henner -  
Absorption and Multicellular Studies from Human.

Received M. M. and accepted 8. 8. 1968 (18)  
with thanks to General Electric  
for the use of their facilities.