

## MCULTRA

Sub-Project 47

Description	Date:	Obligations	Expenditures	Balance
	1955			
August 11	7/21/55	1500000		1500000
Same " 1	8/21/55		1750400	41600
" 2	19 SEP 1955		4600	-
same " 2	280310			
	11 6512			
	11600 - 17 85			
	5065526 " 54			

*Completed*

RELEASED 28 OCT 1980

Project MULTRA, Subproject 47

PFRIFFER

Date Initiated: 24 March 1955

Date Expires: 1 June 1962

Funds-current year: \$30,740

Purpose: Pharmacological and clinical testing in animals and volunteers of chemicals and biochemicals which alter behavior. Provides consultation on special problems of TSD interest.

Status: Study completed on threshold doses of LSD-25; a method for exploring antagonism of this drug by other agents. Work has been initiated to evaluate compound producing amnesia and having an alcohol like effect on behavior will be started. Evaluation of effects of combination of drugs of interest to TSD is 1/4 complete.

~~Administrative~~





475

Date 5 September 1963

Branch BB Category BEHAVIORAL ACTIVITIES SUPPORT Behavioral Control Materials (VIA) (formerly IIB)

Project Title N.A. Item Classification N.A.

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer [REDACTED]

Contractor Dr. C. C. Pfeiffer

Contract No. Subproject 47 Task No. N.A.

Type of Contract MKULTRA Date Initiated March 1955

Cost \$25,000.00 Completion Date Continuing (renewed April 1962)

Purpose: For pharmacological and clinical testing in animals and human volunteers of drugs altering behavior.

Status: Clinical testing programs involving evaluation of specialized materials are proceeding according to plan.

Requirement: Internally generated in TSD.

SECRET

Date 31 October 1963

Branch BB Category BEHAVIORAL ACTIVITIES SUPPORT  
Behavioral Control Materials (Via)  
 (formerly I1b)

Project Title N.A. Item Classification N.A.

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No N.A. Project Engineer A

Contractor Dr. C. C. Pfeiffer

Contract No. Subproject 47 Task No. N.A.

Type of Contract MKULTRA Date Initiated March 1955

Cost \$25,000.00 Completion Date Continuing (renewed April 1962)

Purpose: For pharmacological and clinical testing in animals and human volunteers of drugs altering behavior.

Status: Satisfactorily terminated. Contract replaced by MKULTRA 144

Requirement: Internally generated in TSD.

~~SECRET~~

~~SECRET~~



INSTRUCTIONS

1. If funds, in the form of other than U.S. Dollars were on hand, received, or disbursed during the accounting period, all pertinent data, i.e., date, method of acquisition, etc., must be shown. If advances have been made to third parties, enter the total of such advances outstanding at the beginning of the accounting period on line 1a.
2. If more space is required to explain receipts, prepare receipt form, number and attach hereto. In every case, completely identify the source of receipts.
3. Attach a voucher for each expenditure and assign a number thereto in numerical sequence. The voucher may be the receipt obtained from the payee. When a receipt is not obtained, prepare a certificate and attach as a voucher. When space on form is not sufficient to list all vouchers, prepare a listing on a separate sheet and enter the total under item 3. If advances to third parties are outstanding at the close of the accounting period, attach an itemized list and enter the total on line 3a.
4. Final credit will not be given for disbursements which are advances to be accounted for. When accounting for advances are obtained, list as expenditures or refund of cash, as appropriate.
5. Total receipts entered on the line "Total to Account For" must agree with the total disbursements entered on the line following "Total Accounted For."

## CERTIFICATE

I have received in payment of a part of invoice 47  
for invoice 13, in the amount of \$25,000.00 the as-  
set being transferred to the office of the State of  
to be received by the Certifying Officer's request.

I further certify that under no circumstances permitted  
by the certifying laws have received and that to be  
only and helps the funds of the State of the State  
of the State of the State of the State of the State.

25 July 1963



47-6

State of New Jersey

BUREAU OF RESEARCH IN NEUROLOGY AND PSYCHIATRY  
C/O NEW JERSEY NEURO PSYCHIATRIC INSTITUTE  
BOX 1000  
PRINCETON, NEW JERSEY

May 24, 1963

Dr. 

Dear Dr. 

I have been informed that your granting committee has again agreed to support our research for a one year period beginning June 1, 1963 and extending until May 31, 1964. On behalf of the New Jersey Mental Health Research & Development Fund, Inc. and my co-workers we wish to thank you for this expressed confidence in our originality and productivity.

Attached you will find a succinct summary of our expenditures on the 1962-63 grant. Exact detailed expenditures are available in the office of the Fund.

Best regards.

Yours sincerely,

Handwritten signature of Carl C. Pfeiffer in cursive.

Carl C. Pfeiffer, M.D.

Head, Section on Neuropharmacology

CCP:tt

FINANCIAL REPORT

B



June 1, 1962 to May 31, 1963

Annual Grant to N.J. Mental Health Research & Development Fund, Inc.  
Research Project of Carl C. Pfeiffer, Ph.D., M.D.

Receipts \$25,000.00

Expenditures

Salaries	\$19,635.54
Wages	3,546.49
Expt'l Subjects	878.00
Travel	<u>939.97</u>

Total \$25,000.00

*Carl C. Pfeiffer*  
Carl C. Pfeiffer, Ph.D., M.D.

*Henry P. David*  
Henry P. David, Ph.D.  
Secretary-Treasurer  
N.J. Mental Health Research  
and Development Fund, Inc.

I certify that services or materials have been satisfactorily rendered and the expenditures were incurred on official business.

A

Dates: 25 JUL 1963

Date 21 February 1963

Branch EE Category Behavior Control ( II<sup>B</sup> )

Project Title N.A. Item Classification N.A.

Project Crypto NEUTRA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer [Redacted] <sup>A</sup>

Contractor Dr. C. C. Pfeiffer

Contract No. Subproject # 47 Task No. N.A.

Type of Contract NEUTRA Date Initiated March 1955

Cost \$25,000.00 Completion Date Continuing (renewed April 1962)

Purpose: For pharmacological and clinical testing in animals and human volunteers of drugs altering behavior.

Status: Clinical testing programs involving evaluation of specialized materials are proceeding according to plan.

REQUIREMENT SOURCE: Internally generated in TSD.

~~SECRET~~

~~SECRET~~

SECRET

47-10

Date 23 July 1962

Branch BB Category Behavior Control (11b)

Project Title N.A. Item Classification N.A.

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer. [REDACTED] <sup>R</sup>

Contractor Dr. C. C. Pfeiffer, New Jersey Neuro - Psychiatric Institute,  
Princeton, New Jersey

Contract No. Subproject 147 Task No. N.A.

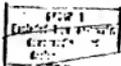
Type of Contract MKULTRA Date Initiated March 1955

Cost \$25,000 Completion Date Continuing (renewed April '62)

Purpose: For pharmacological and clinical testing in animals and human volunteers of drugs altering behavior.

Status: Work scheduled for FY 62 has been completed and a satisfactory final report has been submitted.

SECRET





~~SECRET~~

INVOICE

For Services

\$26,606.00

~~SECRET~~

CERTIFICATIONS

(1) It is hereby certified that this is Invoice <sup>13</sup> applying to Sub-project No. \_\_\_\_\_ of KNUATRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/ES, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Biological Branch

Date: 23 April 1962

(2) It is hereby certified that this invoice applies to Subproject \_\_\_\_\_ of KNUATRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director  
XXXXXXXXXXXXXXXXXXXX

Chief, TSD

Date: \_\_\_\_\_

~~SECRET~~

RECEIPT

Receipt is acknowledged of Treasurer's Check No. 190924, dated

May 3, 1962, drawn on the [REDACTED] E

[REDACTED] in the amount of \$25,000.00, payable to [REDACTED] B  
[REDACTED]

Receipt is also acknowledged of Treasurer's Check No. Y400026,

dated May 3, 1962, drawn on the [REDACTED] E

[REDACTED] in the amount of \$1,000.00, payable to [REDACTED] B  
[REDACTED]

A [REDACTED] Secretary  
DATE: May 8, 1962

23 April 1962

MEMORANDUM FOR: Chief, Finance Division

VIA: TSD/Budget Officer

SUBJECT: MKULTRA, Subproject 47, Invoice No. 13  
Allotment No. 2125-1390-3902

1. Invoice No. 13 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$25,000.00  
drawn on a ~~bank~~ bank.

Cashier's check in the amount of \$1,000.00 drawn  
on a ~~bank~~ bank.

Checks should be made payable to the ~~bank~~

2. Please forward the checks to Chief, TSD/Biological Branch  
through TSD/Budget Officer by 15 May 1962.

3. This is a final invoice. However, since it is anticipated  
that additional funds will be obligated for this project, the files should  
not be closed.

190924 - \$23,000.00  
Y400026 - 1,000.00

2 CHECKS IN THE AMOUNT OF \$  
RECEIVED.

~~\_\_\_\_\_~~ A

~~\_\_\_\_\_~~ A  
Chief,  
TSD/Biological Branch

Attached:  
Invoice & Certifications

Distribution:  
Orig. & 2 - Addressee  
1 - TSD/FASS  
2 - TSD/BB  
TSD/BB: A

24 APR 1962

1 CHECK TIME RANGES ARE AVAILABLE  
ORGANIZATION NUMBER 117  
CHECK TO ALLOTMENT NO. 2125-1390-3902

ADMINISTRATIVE OFFICE

~~\_\_\_\_\_~~

~~SECRET~~Date: 12 April 1964

MEMORANDUM FOR: The Comptroller  
 ATTENTION : Finance Division  
 SUBJECT : MEMORAA, Subproject 47

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 47 has been approved and \$26,000.00 of the over-all Project MEMORAA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3904

A  
~~SECRET~~  
 Chief,  
 TSP/Biological Branch

APPROVED FOR OBLIGATION  
 OF FUNDS:

~~XXXXXXXXXXXXXX~~  
 Chief, TSD

Date: \_\_\_\_\_

Distribution:  
 Original & 2 - Addressee  
 ✓ 1 - TSD/FASS  
 1 - TSD/BB

1 COPY THAT FUNDS ARE AVAILABLE  
 OBLIGATED THROUGH THE 117  
 OFFICE TO ACCOUNT NO. 2125-1390-3904

AUTHORIZING OFFICER

DRAFT  
12 April 1962

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA Subproject 47

1. The purpose of this subproject 47 is to provide funds to continue a research program being carried out by Carl C. Pfeiffer, MD.
2. The nature of the investigations to be carried out under the direction of Dr. Pfeiffer encompasses pharmacological and clinical testing in animals and human volunteers of chemicals and biochemicals which alter behavior. Certain phases of other problems of interest to TSD will be investigated.
3. Dr. Pfeiffer is located at the New Jersey Neuro-Psychiatric Institute in the Bureau of Research in Neurology and Psychiatry, Princeton, New Jersey.
4. The funds for this project will be transferred using the ~~██████████~~ <sup>B</sup> ~~██████████~~ as a cut-out.
5. The cost of this program for a period of one year beginning 1 June 1962 will not exceed \$25,000.00. To this sum must be added \$1,000.00 representing a 4% service charge to the ~~██████████~~ <sup>B</sup> ~~██████████~~, making the total amount \$26,000.00. Charges should be made against Allotment No. 2125-1390-3902.
6. The New Jersey Mental Health Research and Development Fund Inc., who administer the grant have agreed to provide the ~~██████████~~ <sup>3</sup>

with a summary accounting on an annual basis of all monies received from the [redacted] B. They have also agreed to return any unexpended funds to the [redacted] B as soon as possible upon the close of the grant year.

7. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

8. Title to any permanent equipment purchased by funds granted the New Jersey Neuro-Psychiatric Institute shall be retained by the Institute in lieu of high overhead rates.

9. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the New Jersey Mental Health Research and Development Fund, Inc.

10. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

11. Dr. Pfeiffer has signed the Memorandum of Agreement and holds a TOP SECRET Agency Security Approval.

A [redacted]  
Chief,  
TSD/Biological Branch

APPROVED FOR  
OBLIGATION OF FUNDS:

[redacted] A  
Chief, TSD

Date: 23 APR 1962

Distribution:  
Original only  
Attachment: Proposal & Budget

Downloaded to [redacted]  
by authority of: [redacted]  
Date: June 1977  
E2 IMPDET CL BY 187475

B

RESEARCH PROJECT APPLICATION

Grant Period June 1, 1962 through May 31, 1963

PROPOSAL: The testing in animals and humans of chemicals and biochemicals which alter behavior.PLACE: Section on Pharmacology  
Bureau of Research in Neurology and Psychiatry  
New Jersey Neuro Psychiatric Institute  
Box 1000  
Princeton, New JerseyPRINCIPAL INVESTIGATOR: Carl C. Pfeiffer, Ph.D., M.D.CO-PRINCIPAL INVESTIGATOR: [REDACTED] M.D.GRANT ADMINISTRATOR: New Jersey Mental Health Research and Development  
Fund, Inc.  
1 Jill Lane, Trenton 8, New Jersey  
Henry P. David, Ph.D., Secretary-TreasurerINTRODUCTION:

Our research efforts have received local attention and approbation during the past year so that we now have excellent rapport with the staffs of both the Institute and the Bordentown Reformatory. We now have 10 volunteers per week from the latter, and we have a Clinical Investigative Unit which will house 80 schizophrenics (present census 45 patients).

Current Status of the Pharmacology Unit

The laboratory is still undergoing minor construction, but material progress has been made in the past year. The section for animal screening and conditioning is complete. The sections for animal neuropharmacology and clinical pharmacology have been constructed and put into operation, and an electronic workshop has been set up. All these units are actively at work in human and animal experiments as outlined below. The facilities

WARNING NOTICESENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

of the clinical unit---experimental ward---are nearing completion, and are already in partial use. Still in varying stages of construction are the biochemical pharmacology and medicinal chemistry units.

Personnel: Since the last report, the section has been joined by Drs. ~~\_\_\_\_\_~~ and ~~\_\_\_\_\_~~ as planned. It is anticipated that two to three more investigators at the doctoral level will be needed, probably one more clinical pharmacologist, a medicinal chemist, and a biochemical pharmacologist. Two engineers have been employed for design and construction of new equipment and six lab assistants are now fully trained to their various jobs.

Human subjects: Liaison with ~~New Jersey State Reformatory~~ --- Bordentown has been excellent, and a full complement of volunteers from that institution has been freely available. This group may be a better group for this kind of research, since they may be closer to the normal population than were the Atlanta prisoners, the latter being recidivists and older than the Bordentown group. In addition, other human volunteers have been recruited, including female subjects, so that the population of "normal" subjects available is now much more nearly representative of the population at large. In addition, it has been possible already to begin explorations with the psychotic patients from the experimental ward, and some interesting results are already forthcoming (see below).

Equipment: Since the last report, the section has obtained a stereotaxic apparatus, a Grass Model III EEG, and a Sanborn 2000 magnetic tape Data Recorder. In addition, we have constructed two new integrators for quantitative EEG; these are modeled after the Drohocki Integrator; but due to some circuit changes are more linear, and have the advantage of using all USA-made parts, so that maintenance is simplified. Two more integrators are under construction which will allow simultaneous



[REDACTED]

[REDACTED] and Pfeiffer, C.C. Use of normal subjects for testing drugs (Upjohn Conference), Clin. Pharmacol & Therap.

At the Federation meetings in [REDACTED] this month, [REDACTED] will report on, [REDACTED] and [REDACTED] and Pfeiffer will report on,

Quantitative electroencephalographic analysis of the effects of lysergic acid diethylamide (ISD-25 and d-amphetamine in man. At [REDACTED]

[REDACTED] and in Munich Dr. Pfeiffer is giving a paper on, Further Quantitative electroencephalographic studies of the stimulant effects of deanol and d-amphetamine in man.

Abstracts of these four papers are enclosed.

In addition to the above, which are ready for formal presentation, the following are under way: A number of tryptamine derivatives are being explored for psychotomimetic and other effects; 4-hydroxy- $\alpha$ -methyl tryptamine, 4-methyl- $\alpha$ -methyl tryptamine, 6-hydroxy-N,N-dimethyltryptamine (The di-methyl analogue of Szara's compound), prolyltryptamine, psilocin, and acetyl tryptamine. Results will be reported as they accrue. The central actions of  $\gamma$ -aminobutyric acid are being indirectly explored by investigating  $\gamma$ -butyrolactone and  $\gamma$ -hydroxybutyric acid. Unlike GABA, these compounds readily cross the blood-brain barrier, and the latter is a potent hypnotic agent and about as active and positive as is chloral hydrate.

[REDACTED] has reported an abnormal EEG response to intravenous thiobarbiturate in schizophrenics. Our quantitative method shows no difference as yet in response between normals and schizophrenics. to the intravenous injection of thiopental.

WARNING  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

Research Proposals

In the light of the above, the following are planned for the coming year:

1. Screening of tryptamine compounds in animals and man for hallucinogenic action.
2. Completion of the study of the use of riboflavin as a trace chemical to prove the ingestion of medication in a clinical setting.
3. Further studies on the use of phenoxybenzamine and other adrenergic blocking compounds as antidotes to LSD-25.
4. Further refinement of the use of quantitative brain wave studies to diagnose schizophrenia and to determine the action of hallucinogens.
5. Selection of one or more of a series of stimulant diamines for chronic toxicity studies in animals so that they can be tested in normal human volunteers for possible stimulant action.
6. A search in brain extracts of rabbits treated with Tofranil (imipramine) to determine if any stimulant amine accumulates as a result of degradation of the drug molecule in the body.
7. Determination of the anti-cholinesterase and aminoxidase inhibitory effect of the stimulant diamines.
8. Assay of acetylcholine content of various portions of the brain after prolonged administration of deanol.
9. The assay in man of an intravenous analgesic solution composed of morphine and choline or morphine and carnitine wherein the pharmacologically neutral quaternary compound prevents the engagement of peripheral receptors by the morphine.

10. The use of stimulants to prevent the blocking of conditioned behavior.
11. The use of parasympathetic stimulants and methylatropine to interrupt trained behavior.
12. A study of practical drug antidotes to atropine-like compounds.
13. Careful study in normal man of
  - A. ~~synthesized~~ synthesized compounds . . . . . B
  - B. Compounds supplied by the ~~synthesized~~
  - C. Biochemicals purchased

Note: For elaboration of methods see the 1961-1962 proposal.

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

B  
 [REDACTED]  
 Research Project Application - Pfeiffer and [REDACTED] C

Requested Budget  
 June 1, 1962 through May 31, 1963

	<u>Time</u>	<u>Amount</u>
Principal Investigator, Carl C. Pfeiffer, Ph.D., M.D.	25%	\$ 4,000.00
Co-principal Investigator, [REDACTED] Ph.D.	25%	3,000.00
Senior Research Scientist, [REDACTED] H.S.	25%	None
Neuropharmacologist, [REDACTED] Ph.D.	50%	7,000.00
Technician	100%	4,800.00
Secretary, [REDACTED]	25%	1,300.00
Stipends, Human Volunteers, 50 x 10 x \$3.50/wk		1,750.00
Equipment		850.00
Consumable Supplies		1,900.00
Travel to Scientific Meetings & Conferences		950.00
	<b>TOTAL</b>	<b>\$25,550.00</b>

In lieu of overhead, the New Jersey Mental Health Research and Development Fund, Inc. will retain title to any equipment which may be purchased under said grant.

WARNING NOTICE  
 SENSITIVE INTELLIGENCE  
 SOURCES AND METHODS INVOLVED



47-17

State of New Jersey

BUREAU OF RESEARCH IN NEUROLOGY AND PSYCHIATRY  
C/O NEW JERSEY NEURO-PSYCHIATRIC INSTITUTE  
BOX 1000  
PRINCETON, NEW JERSEY

JOSEPH M. TOBIN, M.D.  
DIRECTOR

March 2, 1962

Dr. 

B Dear 

Attached you will find <sup>C</sup> interim report of our expenditures from the ~~period~~ from the period beginning June 1, 1961 and ending May 31, 1962.

This brings to mind your promised trip to see our laboratory and the progress in our research efforts. We hope that the month of March will afford you time for such a visit since we now have much to show you.

With best regards,

Yours sincerely,



Carl C. Pfeiffer, M.D.  
Head, Section on Pharmacology

CCP:mc

Att. (1)

B

Period Ending March 1, 1962

<u>Personnel Salaries and Wages</u>	<u>Travel</u>	<u>Permanent Equipment</u>	<u>Consumable Supplies</u>	<u>Other</u>
\$1,148.40	\$ 12.47	\$1,182.44	\$ 447.30	\$ 45.35
1,070.80	65.09	3,418.78	205.55	4.00
665.40	102.94	1,259.65	147.71	56.39
3,492.00	304.61	773.83	157.71	35.05
130.37	621.13	1,095.82	654.93	123.94
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
\$6,506.97	\$1,095.24	\$7,730.52	\$1,613.20	\$264.73

Receipts	\$30,740.00
Expenditures	17,210.66
Balance	13,529.34



47-17

State of New Jersey

BUREAU OF RESEARCH IN NEUROLOGY AND PSYCHIATRY  
C/O NEW JERSEY NEURO-PSYCHIATRIC INSTITUTE  
BOX 1000  
PRINCETON, NEW JERSEY

JOSEPH M. TOBIN, M.D.  
DIRECTOR

March 2, 1962

Dr. 

Dear  B

Attached you will find interim report of our expenditures from the ~~1961~~ grant from the period beginning June 1, 1961 and ending May 31, 1962.

This brings to mind your promised trip to see our laboratory and the progress in our research efforts. We hope that the month of March will afford you time for such a visit since we now have much to show you.

With best regards,

Yours sincerely,



Carl C. Pfeiffer, M.D.  
Head, Section on Pharmacology

CCP:mc

Att. (1)

B

Period Ending March 1, 1962

<u>Personnel Salaries and Wages</u>	<u>Travel</u>	<u>Permanent Equipment</u>	<u>Consumable Supplies</u>	<u>Other</u>
\$1,148.40	\$ 1.47	\$1,182.44	\$ 447.30	\$ 45.35
1,070.80	65.09	3,418.78	205.55	4.00
665.40	102.94	1,259.65	147.71	56.39
3,492.00	304.61	773.83	157.71	35.05
130.37	621.13	1,095.82	654.93	123.94
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
\$6,506.97	\$1,095.24	\$7,730.52	\$1,613.20	\$264.73
Receipts	\$30,740.00			
Expenditures	17,210.66			
Balance	13,529.34			

447  
47-18

NEW JERSEY MENTAL HEALTH  
RESEARCH AND DEVELOPMENT FUND, INC.

*Trustees*

JOSEPH M. TOBIN, M.D., *Chairman* • PAUL HAUN, M.D., *Vice Chairman* • HENRY P. DAVID, Ph.D., *Secretary Treasurer*  
V. TERRELL DAVIS, M.D. • MAURICE G. KOIT, Ph.D. • DOUGLAS H. MACNEIL • LLOYD W. McCORKLE, Ph.D.

*Address Correspondence to:*  
Henry P. David, Ph.D.  
Secretary Treasurer  
1 Jill Lane  
Trenton 8, N. J.

October 21, 1961

B  
C  
Dr. [REDACTED]

Dear Dr. [REDACTED] C

It is with pleasure that I acknowledge your recent contribution of \$15,370.00 as the first payment on the new grant under Dr. Carl Pfeiffer.

Yours sincerely,

H. P. David

Henry P. David, Ph.D.  
Secretary Treasurer

HPD:cf

cc: Dr. Carl Pfeiffer

47-19

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Treasurer's Check No. 184354, dated July 26, 1961, drawn on the [redacted] in the amount of \$1,229.60, payable to the [redacted] <sup>E</sup> <sub>B</sub>

Treasurer's Check No. 267969, dated July 26, 1961, drawn on the [redacted] in the amount of \$30,740.00, payable to the [redacted] <sup>E</sup> <sub>B</sub>

[redacted] <sup>C</sup>

Date: 9-7-61

30740  
\$1229.60  
-----  
\$31969.60

~~██████████~~ <sup>B</sup> ~~██████████~~ <sup>Grant</sup> to Carl C. Pfeiffer, Ph.D., M.D.  
 June 1, 1960 to May 31, 1961  
 with New Jersey Mental Health Research and Development Fund as the Recipient

## Receipts

September	1960	\$24,749.00
January	1961	12,374.50
May	1961	12,374.50
Total receipts		\$49,498.00

## Expenditures

Laboratory equipment and supplies	\$38,632.64
Office equipment and supplies	6,018.57
Salaries and wages	2,888.86
Travel	1,555.38
Books	1,025.55
Total expenditures	\$49,498.00

~~██████████~~ <sup>C</sup>

cc. Joseph M. Tobin, Director, Bureau of Research  
 David Henry, Sec. Treas., New Jersey Mental Health Research and Development Fund

I have examined the above  
 expenditure

A

~~██████████~~

Carl C. Pfeiffer, Ph.D.

Date: 8/30/61

26-28

47-21

NEW JERSEY MENTAL HEALTH  
RESEARCH AND DEVELOPMENT FUND, INC.

Trustees

JOSEPH M. TOBIN, M.D., *Chairman* • PAUL HAUN, M.D., *Vice Chairman* • HENRY P. DAVID, Ph.D., *Secretary Treasurer*  
V. TERRELL DAVIS, M.D. • MAURICE G. KOTT, Ph.D. • DOUGLAS H. MACNEIL • LLOYD W. McCORKLE, Ph.D.

Address Correspondence to:  
Henry P. David, Ph.D.  
Secretary Treasurer  
1 Jill Lane  
Trenton 8, N. J.

May 12, 1961

Dr. [REDACTED]  
Director  
[REDACTED] B

Dear Dr. [REDACTED]

It is a pleasure to acknowledge receipt of your check in the amount of twelve thousand three hundred seventy four dollars and fifty cents (\$12,374.50), representing the fourth quarterly payment supporting the research program of Dr. Carl C. Pfeiffer.

Yours sincerely,

H. P. David

Henry P. David, Ph.D.  
Secretary-Treasurer

HPD/lm  
CC: Dr. Carl C. Pfeiffer  
Dr. Joseph Tobin

47-1  
12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA TSD/Budget Officer

SUBJECT MKULTRA, Subproject 47, Invoice No. 12  
Allotment 2125-1390-3902

1. Invoice No. 12 covering the above subproject is attached.  
Payment should be made as follows:

(A) Cashier's check in the amount of \$30,740.00 drawn on a  
[redacted], bank.

(A) Cashier's check in the amount of \$1,229.60 drawn on a  
[redacted], bank.

(B) Checks should be made payable to the  
[redacted]

2. Please forward the checks to Chief, TSD/Research Branch  
through TSD/Budget Officer by 24 July 1961.

3. This is a final invoice. However, since it is anticipated  
that additional funds will be obligated for this project, the files  
should not be closed.

(A)  
[redacted]  
Chief  
TSD/Research Branch

Attached:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

1 - TSD/FASS  
2 - TSD/RB

TSD/RB: (A)  
[redacted]

~~SECRET~~

INVOICE

For Services

\$31,969.69

## CERTIFICATIONS

(1) It is hereby certified that this is Invoice 12 applying to sub-project No. 47 of MEXULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to SubProject 47 of MEXULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date: \_\_\_\_\_

~~SECRET~~





PROPOSAL

SUBJECT: The Testing in Animals and Human Volunteers of Chemicals and Blochemicals Which Alter Behavior.

PLACE: The New Jersey Neuro-Psychiatric Institute  
The Bureau of Research in Neurology and Psychiatry  
Princeton, New Jersey (P. O. Box 1,000)

PRINCIPAL INVESTIGATOR: Carl C. Pfeiffer, Ph.D., M.D.

GRANT ADMINISTRATORS: New Jersey Mental Health Research and Development Fund, Inc.  
1 Jill Lane, Trenton 8, New Jersey  
Henry P. David, Ph.D., Secretary-Treasurer

It is proposed to conduct screening and range finding tests on volunteers with chemical compounds of known behavioral activity. Studies will be conducted on derivatives of selected biologically active compounds to determine their action on the central nervous system of man.

In addition to these investigations, the following work will be undertaken:

1. Pharmacological testing will be conducted on animals utilizing candidate hallucinogenic chemicals.
2. Studies will be conducted on compounds of relatively simple configuration to assess their ability to inhibit trained behavior in animals utilizing the condition avoidance responses.
3. Studies will be conducted of compounds in normal human volunteers for possible behavioral changes utilizing compounds provided by the sponsor.
4. Quantitative studies of the EEG in animals and man to determine stimulant or depressant effects of candidate materials.



12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 47, Invoice No. 12  
Allotment 2125-1390-3902

1. Invoice No. 12 covering the above subproject is attached. Payment should be made as follows:

E Cashier's check in the amount of \$30,740.00 drawn on a [redacted], bank.

E Cashier's check in the amount of \$1,229.60 drawn on a [redacted] bank.

Checks should be made payable to the [redacted] B

2. Please forward the checks to Chief, TSD/Research Branch through TSD/Budget Officer by 24 July 1961.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

A  
[redacted]  
Chief  
TSD/Research Branch

Attached:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

[Handwritten signature]



~~SECRET~~

26 April 1961

MEMORANDUM FOR: Chief, Finance Division

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 60, Invoice No. 7  
Allotment 2125-1390-3902

1. Invoice No. 7 in the amount of \$18,500 is attached. However, due to refunds of \$5,582.12 from this and one other project (as per attachments) payment should be made as follows:

Cashier's Check in the amount of \$12,917.88, drawn on a local bank, payable to the Society for the Investigation of Human Ecology, Inc.

2. The checks should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Monday, 8-May 1961.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

A ~~\_\_\_\_\_~~  
Chief  
TSD/Research Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

~~SECRET~~

PROPOSAL

SUBJECT: The Testing in Animals and Human Volunteers of Chemicals and Biochemicals Which Alter Behavior.

PLACE: The New Jersey Neuro-Psychiatric Institute  
The Bureau of Research in Neurology and Psychiatry  
Princeton, New Jersey (P.O. Box 1,000)

PRINCIPAL INVESTIGATOR: Carl C. Pfeiffer, Ph.D., M.D.

GRANT ADMINISTRATORS: New Jersey Mental Health Research and  
Development Fund, Inc.  
1-Jill Lane, Trenton 3, New Jersey  
Henry P. David, Ph.D., Secretary-Treasurer

It is proposed to conduct screening and range finding tests on volunteers with chemical compounds of known behavioral activity. Studies will be conducted on derivatives of selected biologically active compounds to determine their action on the central nervous system of man.

In addition to these investigations, the following work will be undertaken:

1. Pharmacological testing will be conducted on animals utilizing candidate hallucinogenic chemicals.
2. Studies will be conducted on compounds of relatively simple configuration to assess their ability to inhibit trained behavior in animals utilizing the condition avoidance responses.
3. Studies will be conducted of compounds in normal human volunteers for possible behavioral changes utilizing compounds provided by the sponsor.
4. Quantitative studies of the EEG in animals and man to determine stimulant or depressant effects of candidate materials.

~~TOP SECRET~~  
~~CONFIDENTIAL~~

DRAFT  
1 June 1961

47-31

MEMORANDUM FOR: THE RECORD  
SUBJECT : MKULTRA Subproject 47

1. The purpose of this subproject 47 is to provide funds to continue a research program being carried out by Carl C. Pfeiffer, MD.
2. The nature of the investigations to be carried out under the direction of Dr. Pfeiffer encompasses pharmacological and clinical testing in animals and human volunteers of chemicals and biochemicals which alter behavior. Certain phases of other problems of interest to TSD will be investigated.
3. Dr. Pfeiffer is located at the New Jersey Neuro-Psychiatric Institute in the Bureau of Research in Neurology and Psychiatry, Princeton, New Jersey.
4. The funds for this project will be transferred using the ~~██████████~~ <sup>B</sup> as a cut-out.
5. The cost of this program for a period of one year beginning 1 June 1961 will not exceed \$30,740.00. To this sum must be added \$1,229.60 representing a 4% service charge to the ~~██████████~~ <sup>B</sup> making the total amount \$31,969.60. Charges should be made against Allotment #2125-1390-3902.
6. The New Jersey Mental Health Research and Development Fund Inc., who administer the grant have agreed to provide the ~~██████████~~ <sup>B</sup>

with a summary accounting on an annual basis of all monies received

~~TOP SECRET~~  
~~CONFIDENTIAL~~

from the [redacted] They have also agreed to return any unexpended funds to the [redacted] as soon as possible upon the close of the grant year.

7. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

8. Title to any permanent equipment purchased by funds granted the New Jersey Neuro-Psychiatric Institute shall be retained by the Institute in lieu of high overhead rates.)

9. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the New Jersey Mental Health Research and Development Fund Inc.

10. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

11. Dr. Pfeiffer has signed the Memorandum of Agreement and holds a TOP SECRET Agency Security Approval.

[redacted] A

Chief,  
TSD/Research Branch

APPROVED FOR  
OBLIGATION OF FUNDS:

[redacted] A

Research Director

Date: \_\_\_\_\_

Attachments:  
Proposal & Budget

Distribution:  
Original Only

## PROPOSAL

SUBJECT: The Testing in Animals and Human Volunteers of Chemicals and Biochemicals Which Alter Behavior.

PLACE: The New Jersey Neuro-Psychiatric Institute  
The Bureau of Research in Neurology and Psychiatry  
Princeton, New Jersey (P.O. Box 1, 000)

PRINCIPAL INVESTIGATOR: Carl C. Pfeiffer, Ph.D., M.D.

GRANT ADMINISTRATORS: New Jersey Mental Health Research and  
Development Fund, Inc.  
1 Jill Lane, Trenton 8, New Jersey  
Henry P. David, Ph.D., Secretary-Treasurer

It is proposed to conduct screening and range finding tests on volunteers with chemical compounds of known behavioral activity. Studies will be conducted on derivatives of selected biologically active compounds to determine their action on the central nervous system of man.

In addition to these investigations, the following work will be undertaken:

1. Pharmacological testing will be conducted on animals utilizing candidate hallucinogenic chemicals.
2. Studies will be conducted on compounds of relatively simple configuration to assess their ability to inhibit trained behavior in animals utilizing the condition avoidance responses.
3. Studies will be conducted of compounds in normal human volunteers for possible behavioral changes utilizing compounds provided by the sponsor.
4. Quantitative studies of the EEG in animals and man to determine stimulant or depressant effects of candidate materials.

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

Requested Budget  
June 1, 1961 thru May 31, 1962

<u>TITLE</u>	<u>TIME</u>	<u>AMOUNT</u>
Principal Investigator Carl C. Pfeiffer, Ph.D., M.D.	25%	\$ 4,000.00
Senior Research Scientist, [REDACTED], M.S. Paid by State of New Jersey	25%	None
Clinical Pharmacologist, [REDACTED], M.D. C	75%	10,000.00
Neuropharmacologist, [REDACTED], Ph.D.	50%	6,000.00
Technician & Animal Man, [REDACTED]	100%	4,160.00
Secretary, [REDACTED]	35%	1,280.00
Stipends - Human Volunteers		1,500.00
Equipment		None
Consumable Supplies: Animals, Animal Food, Biochemicals, Paper for ESO		3,400.00
Travel to Scientific Meetings & Conferences		400.00
TOTAL		\$30,740.00

In lieu of overhead, the New Jersey Mental Health Research & Development Fund will retain title to any equipment which may be purchased under said grant.

## RECEIPT

Receipt is hereby acknowledged of the following two checks:

E Official Check No. G42787, dated July 7, 1960, drawn on  
[REDACTED] in the amount of  
\$49,498.00, payable to the [REDACTED] B

E Official Check No. G42786, dated July 7, 1960, drawn on  
[REDACTED], in the amount of  
\$1,979.92, payable to the [REDACTED] B

C [REDACTED]  
Date: 13 July '60  
J.T.

29 June 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKUI. TRA, Subproject 47, Invoice #11  
Allotment 0525-1009-4902

1. Invoice #11 covering the above subproject is attached.  
Payment should be made as follows:

E Cashier's check in the amount of \$49,498.00, drawn  
on a ~~XXXXXXXXXX~~.

E Cashier's check in the amount of \$1,979.92, drawn  
on a ~~XXXXXXXXXX~~.

Each check should be made payable to the ~~XXXXXXXXXX~~

2. Please forward the checks to Chief, TSD/Research Branch  
through TSD/Budget Officer by 13 July 1960.

3. This is a final invoice. However, since it is anticipated  
that additional funds will be obligated for this project, the files  
should not be closed.

A ~~XXXXXXXXXX~~  
Chief  
TSD/Research Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

- 1 - TSD/FASS
- 2 - TSD/QB

~~SECRET~~

47-39

INVOICE

For Services

\$51,477.92

B



CERTIFICATIONS

(1) It is hereby certified that this is Invoice #11 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSD/Research Branch

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject No. 47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

~~SECRET~~

Authority of: 187475  
1 June 1977  
INDEXED BY 187475

44-39

DRAFT  
20 May 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 47

1. The purpose of this subproject is to provide funds to continue a research program being carried out by Carl C. Pfeiffer, M.D.
2. The nature of the investigations to be carried out under the direction of Dr. Pfeiffer encompasses pharmacological and clinical testing in animals and human volunteers of chemicals and biochemicals which alter behavior as outlined in the attached proposal.
3. Dr. Pfeiffer was previously located at the Emory University, Atlanta, Georgia. He is now located at the New Jersey Neuro-Psychiatric Institute in the Bureau of Research in Neurology and Psychiatry, Princeton, New Jersey. This change in position will not in any way interfere with the Agency sponsored work, in fact, Dr. Pfeiffer will have access to more and better equipment and personnel for his research.
4. The funds for this project will be transferred using the ~~\_\_\_\_\_~~, as a cut-out.
5. The cost of this program for a period of one year beginning 1 June 1960 will not exceed \$49,498.00. To this sum must be added \$1,979.92 representing a 4% service charge to the ~~\_\_\_\_\_~~ B

B

B

Exempted to: EC/50/CH/114  
Authority of: 187475  
1 June 1977  
INDEXED BY 187475

~~TOP SECRET~~

Authority of: 187475  
Date: June 1977  
3 INSET OF BY 187475

~~\_\_\_\_\_~~ making the total amount \$51,477.92. Charges should be made against Allotment 0525-1009-4902.

6. The ~~\_\_\_\_\_~~<sup>B</sup> has requested The New Jersey Mental Health Research and Development Fund, Inc., who administer the grant, to submit to them a summary accounting on an annual basis of all monies received from the Fund. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

7. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

8. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of high overhead rates.

9. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

10. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

Approved for CONFIDENTIAL  
Authority of: 187475  
Date: June 1977  
INSET OF BY 187475

CONFIDENTIAL

ii. Dr. Pfeiffer has signed the Memorandum of Agreement

and holds a TOP SECRET Agency Security Approval.

A

  
Chief  
TSD/Chemical Branch

APPROVED FOR OBLIGATION  
OF FUNDS:

 A  
Research Director

Date:

6/15/60

Attachment:

Proposal & Budget

Distribution:

Original only.



RESEARCH PROJECT APPLICATION

PROPOSAL: The testing in animals and human volunteers of chemicals and biochemicals which alter behavior.

PLACE: The New Jersey Neuro-Psychiatric Institute  
The Bureau of Research in Neurology and Psychiatry  
Princeton, New Jersey (P. O. Box 1,000)

PRINCIPAL INVESTIGATOR: Carl C. Pfeiffer, Ph.D., M.D.

GRANT ADMINISTRATORS: New Jersey Mental Health Research and Development Fund, Inc.  
1 Jill Lane, Trenton 8, New Jersey  
Henry P. David, Ph.D., Secretary-Treasurer

INTRODUCTION: The [redacted] has aided the research studies of the principal investigator for more than ten years, during which time many notable advances have been accomplished.

At present the [redacted] supports the search for new hallucinogens (chemically simpler than LSD-25). These are synthesized by [redacted] tested in animals and in vitro systems and then cautiously tested in man. [redacted] is taking a leave of absence next year and will work in 1951 as head of medicinal chemistry in the

[redacted]. His synthetic work will continue in 1951, and in 1950-1951 we will test the backlog of compounds already synthesized. The grant to Emory will terminate as of May 31, 1950, which is the close of the present grant year. Other funds are available at Emory to continue the testing of the [redacted] compounds at the Atlanta Federal Penitentiary under the direction of

[redacted], M.D. from the period June 1, to December 31, 1950. By this time the human testing will be organized and progressing in New Jersey under the direction of the principal investigator. On July 1, 1951 [redacted] will have completed his last six months of a split internship and will join the research team in the New Jersey location.

RESEARCH PROPOSALS:

- A. Pharmacological testing in animals of candidate hallucinogenic chemicals.
- B. Study of simple compounds which may inhibit trained behavior such as the conditioned avoidance response.
- C. Careful study of compounds in normal human volunteers for possible behavioral changes:
  - 1) [redacted] synthesized compounds
  - 2) Compounds supplied by [redacted]
  - 3) Biochemicals purchased

WARNING NOTICE

SENSITIVE INTELLIGENCE

SOURCES AND METHODS INVOLVED

D. Quantitative studies of the EEG in animals and man to determine stimulant or depressant effects.

E. Annual conference on the neuro-biology of psychoses.

Proposals A, B, and C are a continuation of the work now in progress which is familiar to the officers of the ~~\_\_\_\_\_~~ from our annual and semi-annual reports. Under C the source of human volunteers will be the 100 reformatory inmates (ages 18 to 28) who are stationed on the grounds of the Institute. If 16 volunteers, aged 21 to 28, are not obtained from this group for a weekly session of drug testing, we will have one session of eight subjects at the Institute and one session at the New Jersey State Prison in Trenton. Commissioner Braimberg has given his permission.

Under D we now have perfected and plan to use at the New Jersey Laboratory a quantitative integrator for drug studies in both man and animals.

Adult unanesthetized, trained animals are used. Under anesthesia small gold-plated wood screws are used as dural electrodes. These are lightly engaged in the calvarium and held firmly in place with methacrylate with the permanent lead attached. The recording leads are bi-polar from the left and right frontoparietal lobes of the brain. The animals are in a sound attenuating box and sit quietly for the entire 1 to 2 hour session after a few training periods.

A Orohockl integrator is attached to one lead. This device rectifies the brain waves and by a chopping process, counts the area under the rectified curve. A signal is made at a pre-set degree of sensitivity. The number of signals per unit time is a measure of the degree of electrical activity or "electrogenesis." The number of pulses or signals is directly correlatable with the area under the curve. The constancy of the electrogenesis with elapsed time can be calculated and treated by the usual statistical methods. In this type of analysis, periods as long as five minutes can be used as a baseline or control and thus transient artefacts are eliminated. The action of drugs is usually measured at 1-5 minute intervals after intravenous injection and the drug action is expressed as change in percentage electrogenesis from the control preinjection period. Arousal or stimulant drug effects are recorded as a decrease while sleep (sine waves) produce an increase in electrogenesis.

E. Annual conference on neurobiology of psychoses. Most previous conferences of this type have been poorly planned, and the group has been too large and unieldy. Money spent on verbatim recording and publishing is wasted, and this process further inhibits the participants.

The participants will be limited to 12 or 15. The record will be in the form of the individual's own notes and the notes of a scientifically trained secretary. The summarizing secretary will change with each three-hour session. In a two-day conference we would have five sessions of three hours each.

The conference would be held in ~~\_\_\_\_\_~~ just before or after the ~~\_\_\_\_\_~~ Only ~~\_\_\_\_\_~~ scientists with a biological approach to mental disease would be invited. The various basic disciplines would be represented. Some of the participants might be ~~\_\_\_\_\_~~

WARNING NOTICE

SENSITIVE INTELLIGENCE

SOURCES AND METHODS INVOLVED

B  
 Research Project Application - Pfeiffer

Prior to the meeting a questionnaire on possible biological factors in mental disease would be circulated to the participants, and their response to these possible etiological factors listed would determine the agenda and the priority of the factors discussed.

Possible biological factors which will be included in the questionnaire are for:

A. The Schizophrenias (assuming a heterogeneous clinical entity)

- 1) Defective keto-acid utilization
- 2) Defective carbohydrate utilization
- 3) Decreased level of blood glutathione
- 4) Therapeutic effect of intravenous glutathione
- 5) Increased ascorbic acid requirement
- 6) Increased ceruloplasmin in acute schizophrenia
- 7) Therapeutic effect of ceruloplasmin
- 8) The effect and role of Taraxein
- 9) Increased adrenal cortical and medullary activity
- 10) Increased urinary catechol amine excretion
- 11) Increased urinary indole excretion
- 12) Epinephrine metabolism
- 13) Serotonin
- 14) Thyroid function
- 15) Estrogen-androgen function (more common in female?)
- 16) Liver function tests
- 17) Co-enzyme activity (hippuric acid synthesis) Co-enzyme A
- 18) Effect of growth hormone
  - a) Occurs when somatic growth stops
  - b) Post-partum psychosis
  - c) ACTH psychoses
- 19) Childhood autism and the adult schizophrenics
- 20) Pineal gland extracts
- 21) The schizophrenias in the blind
- 22) Sensory deprivations and psychosis
- 23) EEG abnormalities
  - a) Heath's septal spikes
  - b) 14 and 6 disorder
  - c) Goldman's fast activity after pentothal
- 24) Biology of electroconvulsive therapy (change in cholesterol esters)
- 25) Biology of insulin coma therapy
- 26) Specific effects of nicotinic acid therapy
- 27) Specific effects of phenothiazines
- 28) Specific effects of reserpine
- 29) Specific effects of deanol
- 30) Porphyrin metabolism
- 31) Thiocetic acid
- 32) Funkenstein tests
- 33) Response to histamine and allergies
- 34) Overdosage of amine oxidase inhibitors
- 35) Influence of tuberculosis, influenza, etc.
- 36) Somatotypes

WARNING NOTICE

SENSITIVE INTELLIGENCE

SOURCES AND METHODS INVOLVED

B  
Research Project Application - Pfeiffer

47-31

B. Depressive psychoses

- 1) Amine oxidase inhibition
- 2) Action of electroconvulsive therapy or insulin
- 3) Deanol therapy
- 4) Blood butane-2, 3-diol levels
- 5) Sonatypes

C. Manic psychoses

- 1) Effect of lithium
- 2) Metabolism of uric acid
- 3) Hyperthyroid mania
- 4) Neuraminic acid
- 5) Catechol amine excretion
- 6) Indole excretion
- 7) Bloodacetoin levels
- 8) Effect of phenothiazines
- 9) Sonatypes

BUDGET

	<u>Time</u>	
Principal Investigator, Carl C. Pfeiffer, Ph.D., M.D.	25%	4,000.00
Research Psychopharmacologist, [REDACTED], M.S.	100%	7,500.00
Clinical Investigator (M.D.)	100%	12,000.00
Stipends, Human volunteers		4,000.00
Technician	100%	4,500.00
Secretary	50%	2,000.00
Animal Man	50%	1,500.00
O.A.S.I.		648.00

Equipment

2 Electrified conditioning cages for animals @ \$250.00	500.00
1 Constant intravenous infusion pump	350.00
1 Polygraph Grass 4 channel with stimulator and transducers	4,800.00

Consumable Supplies

Animals, animal food, biochemicals, paper for EEG	4,000.00
Travel - To scientific meetings and locally to Trenton State Prison and Hospital	1,500.00
Miscellaneous - Photographs and reprints	200.00
Conference on neurobiology of psychosis	2,000.00
	\$49,498.00

In lieu of overhead the New Jersey Mental Health Research and Development Fund will retain title to all permanent equipment purchased under said grant.

The above grant is requested for the period June 1, 1960 through May 31, 1961.

**WARNING NOTICE**  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED





MOBY UNIVERSITY

B



Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

PERSONNEL

<u>Employee</u>	<u>Position</u>	<u>Amount</u>
	Research Assistant	\$ 2242.00
	Research Assistant	3630.00
	Instructor	300.00
	Assistant Professor	300.00
	Assistant Professor	6916.58
	Associate Professor	900.00
	Research Assistant	1040.00
	Research Technician	2240.44
	Assistant	13.95
	Research Technician	1075.00
	Technician	99.96
	Research Technician	1050.00
	Animal Attendant	390.00
	Assistant	669.00
		14.68
Annuity--	Social Security	477.58
		<u>\$ 23359.39</u>

C

FELLOWSHIPS

	Fellow	\$ 600.00
	Fellow	600.00
	Fellow	300.00
	Fellow	300.00
	Fellow	2500.00
	Fellow	3000.00
		<u>\$ 7300.00</u>

C



Human Subjects

\$ 3310.00



MDRY UNIVERSITY



Department of Pharmacology

EQUIPMENT

<u>ITEMS</u>	<u>VO. NO.</u>	<u>AMOUNT</u>
Film badge service	SJ-7-49	\$ 52.75
Refund of customs	56,030	(43.09)
Parts for typewriter & film editor	85143	68.95
Freight	85723	4.92
Chair	85119	23.25
Dynamometer	85584	91.39
Auto calculator	92866	1,009.40
Battery booster	92975	11.31
Spectrophotometer	94485	1,000.00
Vacuum cleaner	94505	35.02
Electroencephalographic		
Instrumentation aids	99829	1,750.77
	Total---	\$ 4,005.68

Department of Pharmacology  
 Dr. Carl C. Pfeiffer, Director

SUPPLIES

<u>ITEM</u>	<u>VO. NO.</u>	<u>AMOUNT</u>
Services rendered	76391	\$ 18.00
Reprints	76733	57.88
Needles	767377	3.71
Reprints	76923	68.60
Pharmaceutical supplies	SJ-6-70	7.32
Preparing infrared absorption spectra	77681	6.00
Book	78670	5.41
Statistical tables	78689	4.39
Book	79170	8.93
Medical illustrations	JE 781	59.50
Photocopy	SJ-7-50	1.00
Misc. supplies	79354	7.12
Scws, saw sharpened	80177	11.64
Reprints	80709	33.90
Hold release	80745	5.84
Office supplies	SJ-8-65	8.80
Multilith service	SJ-8-71	33.63
Multilith service	SJ-8-71	82.25
Pipe	SJ-8-104	2.42
Book	81761	5.34
Pharmaceutical supplies	SJ-9-26	20.34
Electrodes, potassium hydroxide	82487	37.29
Reprints	82828	10.40
Chemicals	82853	15.60
Graph sheets	83304	9.57
Book	83425	20.39
Freight	83986	9.94
Medical illustrations	JE-10-82	6.00
Books	84372	13.91
Chemicals	84941	13.92
Filter pump, Condenser and fittings	U55575	52.53
Medical illustrations	JE-11-52	9.00
Medical illustrations	JE-12-43	18.00
Glutamine	87086	19.57
Cleaning supplies	SJ-12-79	17.51
Misc. supplies	87516	3.62
Long distance telephone	SJ-12-74	2.30
Electrodes	88111	46.30
Remolets	88170	12.36

(continued on page 2)

<u>ITEM</u>	<u>VO. NO.</u>	<u>AMOUNT</u>
Reprints	68860	32.09
Pharmaceutical supplies	SJ-1-82	18.20
Misc. supplies	91227	1.85
Reprints	91531	10.67
Copper tubing	SJ-2-84	6.73
Medical illustrations	JE-2-43	76.50
Two chimpanzees	SJ-2-42	300.00
Pharmaceutical supplies	SJ-2-79	53.75
Long distance telephone	SJ-2-48	1.90
Misc. supplies	92323	10.50
Misc. supplies	92914	39.82
Plugs, receptacles	92939	64.40
Flasks, chemicals	92989	22.25
Rabbits	93105	51.50
Ice	93217	19.78
Photo supplies	93592	73.93
Medical illustrations	JE-3-43	77.25
Long distance telephone	SJ-3-62	14.45
Pharmaceutical supplies	SJ-3-64	63.21
Misc. supplies	93919	24.15
Drugs, chemicals	94055	63.91
Rabbits	94076	77.25
Heparin NA	94132	13.57
Keyort cards	94384	13.34
Ice	94394	20.62
Chemicals	94402	176.58
Bar	94448	5.57
Chromosorb	94449	8.61
Needles	94504	7.67
Chemicals	94559	15.06
Graph paper	95033	9.89
Flexiglos	95045	18.99
Publication	95169	2.49
Misc. supplies	95187	6.00
Rabbit pellets	95201	34.18
Rabbits	95217	25.75
Animal food	95381	29.36
Publication	95437	5.39
Misc. supplies	SJ-4-61	4.72
Animal feeders	SJ-4-67	38.47
Long distance telephone	SJ-4-54	4.65
Pharmaceutical supplies	SJ-4-69	7.42
Ice	95837	24.91
Syringes	95876	10.30
Knife blades	95923	4.24
Misc. supplies	95992	3.00
Drying jar	96000	20.19

<u>ITEM</u>	<u>YO. NO.</u>	<u>AMOUNT</u>
Cylinders, beakers	95013	\$ 71.18
Mice	95488	101.17
Magazine bound	95637	34.76
Animal food	95700	78.28
Formica, glue, nails	95778	22.97
Ice	95883	10.07
Ice	97302	10.29
Ice	SJ-5-78	7.64
Animal feeders	95253	1.92
Needles	95012	19.50
Overhauling typewriter	99308	9.59
Needles	99476	20.05
Dry ice	SJ-580	1.08
Animal feeders		\$ <u>2,173.99</u>
	Total	

47-37-64

EMORY UNIVERSITY  
ATLANTA 22, GEORGIA

DIVISION OF BASIC HEALTH SCIENCES

March 28, 1950

OFFICE OF THE DIRECTOR

A  
B  
[REDACTED]

A Dear [REDACTED]

Attached you will find our research proposal for the year 1950-1951. We hope your reviewing board will look favorably on this application.

If the grant can be activated as of June 1, 1950, we shall be able to order certain items of equipment and thus decrease the delay which may result in changing our laboratories. I shall begin work in New Jersey as of July 1, 1950. If you or the officers of the [REDACTED] B have any questions, I shall be glad to appear before your group to explain or justify any of the budgetary items or expand on the details of the proposed research.

A  
We are proceeding with the testing of the compounds which [REDACTED] has submitted.

Yours sincerely,

*Carl C. Pfeiffer*  
Carl C. Pfeiffer, M.D.

CCP:cw

EMORY UNIVERSITY  
EMORY UNIVERSITY, GEORGIA

47-38

DIVISION OF BASIC HEALTH SCIENCES

November 20, 1959

OFFICE OF THE DIRECTOR

A

B

A

Dear [REDACTED]

Attached you will find a copy of our budget report prepared on November 18, 1959 with encumbrances projected for the grant until June 1, 1960. From the report you will note that the grant from the [REDACTED] is being spent according to schedule and will be used up as of June 1, 1960. B

Payments are complete as of the present date, but a quarterly payment will be due Emory University on December 1, 1959.

Enclosed you will find [REDACTED] report for the first six months. Our report of drug testing at the Atlanta Penitentiary will be sent to you early in December. C

Yours sincerely,

*Carl C. Pfeiffer*  
Carl C. Pfeiffer, M.D.

CCP:cw

cc: [REDACTED] C

## BUDGET REPORT

47-38

AS OF: November 18, 1959

ACCOUNT	TOTAL AMOUNT	PAYMENTS	BALANCE	OUTSTANDING ENCUMBRANCES	UNENCUMBERED BALANCE
	\$	\$(Total Encumbrance)	\$	\$	\$
9129-03 PERSONNEL	22,000.	20,994.	1,006.		1,006.
9129-11 FELLOWSHIPS	5,250.	5,500.	250.		250.
9129-15 VOLUNTEER	4,500.	1,691.	2,809.		2,809.
9129-24 TRAVEL	1,200.	874.	326.		326.
9129-25 EQUIPMENT	8,590.	67.	8,523.	1,611.	6,912.
9129-31 SUPPLIES	2,000.	400.	1,600.		1,600.
	\$43,540.	\$29,526.	\$14,014.	\$1,611.	\$12,403.

EMORY UNIVERSITY  
EMORY UNIVERSITY, GEORGIA

47-39

OFFICE OF THE CONTROLLER

October 5, 1959

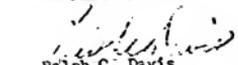


Gentlemen:

We enclose the original and one copy of our report of receipts and expenditures in connection with the grant to Emory University, under the direction of Dr. Carl C. Pfeiffer for the period June 1, 1958 through May 31, 1959.

Kindly inform us if this report is not satisfactory.

Very truly yours,



Ralph C. Davis  
Chief Accountant

RCD:dp

Encls:

cc: Dr. C. C. Pfeiffer



## EMORY UNIVERSITY

B

  
Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

PERSONNEL

<u>Employee</u>	<u>Position</u>	<u>Amount</u>
	Research Professor	\$ 2,400.00
	Secretary	875.00
	Research Assistant	3,975.00
	Assistant Professor	7,916.00
	Instructor	300.00
	Technician Specialist	75.00
	Research Assistant	1,200.00
	Research Technician	600.00
	Assistant Professor	225.00
	Consultant	2,025.00
	Visiting Associate Professor	2,100.00
	Student Assistant	526.50
	Student Assistant	1,497.75
	Student Assistant	765.85
	Social Security	387.26
	Annuity-Dr. 	11.16
	Total Personnel	<u>\$24,880.12</u>

FELLOWSHIPS

	Fellow	\$ 300.00
	Fellow	300.00
	Fellow	3,300.00
	Fellow	3,300.00
	Total Fellowships	<u>\$ 7,200.00</u>

Human Subjects

\$2,476.00

I have examined and approved the submitted expenditures.

A Chief  
TSS/Chemical Division

Date: 15 December 1959

47-39

EMORY UNIVERSITY

B

[REDACTED]

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

TRAVEL

<u>Date</u>	<u>Individual</u>	<u>Destination</u>	<u>CK.No.</u>	<u>Amount</u>
9/16-18/58	Dr. Carl C. Pfeiffer	Princeton, N. J.	62077	\$ 130.84
12/2-3/58	[REDACTED]	[REDACTED]	66569	77.20
4/12-17/59	[REDACTED]	[REDACTED]	73910	176.32
4/14-17/59	[REDACTED]	[REDACTED]	73912	180.00
4/12-18/59	[REDACTED]	[REDACTED]	SJ-4-22	142.65
Total Travel				<u>\$ 707.01</u>

I have examined and approved the submitted expenditures.

A

[REDACTED]

CCS/Chemical Division

Date: 15 December 1958

## EMDRY UNIVERSITY

47 - 39

B

Department of PharmacologyDr. Carl C. Pfeiffer, DirectorEQUIPMENT

<u>ITEM</u>	<u>AMOUNT</u>
Freight	\$ 5.73
Hot Plates	61.80
Electric Clock	10.82
Freight	5.43
Dynamometer recorder	776.78
Carton Office Machinery	29.10
Freight	20.50
Aerograph with accessories	827.86
Freight	29.43
Freight	16.54
Electroencephalograph with accessories	6,242.83
Metal Cabinet	4.19
Service charge	25.00
Semimicro polarimeter tube	30.90
Thermistemp Telethermometer	91.67
Integrateur Electronique, Scientific Apparatus	312.39
Integrator for Electronephalograph	1,208.77
Freight	3.65
Total Equipment	\$ <u>9,703.39</u>

I have examined and approved the submitted expenditures.

A

Chief  
TSS/Chemical Division

Dated 15 December 1959

EMDRY UNIVERSITY

47-39

**Department of Pharmacology**  
**Dr. Carl C. Pfeiffer, Director**

B

ITEM	AMOUNT	ITEM	AMOUNT
Chemicals	\$ 11.33	Chemicals	62.71
Photo lab. work	7.65	Wire	11.80
Freight	6.09	Bulbs	9.27
Cats	6.00	Dry ice	8.32
Dogs	18.00	Chemicals	15.20
Freight	5.27	Office supplies	8.26
Chemicals	10.14	Housekeeping supplies	1.38
Filter strips, pipettes	33.17	Cats & Postage	9.66
Celite	7.73	Misc. supplies	37.91
Animal food	39.14	Chemicals	25.39
Chemicals	20.19	Chemicals	10.30
Telephone bill	2.48	Dry ice	22.54
Misc. lab. supplies	10.42	Cats	10.50
Tubes	62.30	Bulbs	6.18
Maintenance supplies	20.38	Rabbits	24.72
Telephone bill	6.33	Chart paper	247.20
Misc. lab. supplies	18.38	Wire	40.14
Misc. lab. supplies	8.50	Maintenance supplies	4.52
Electrodes & wire	41.94	Dogs	36.00
Yeast	4.04	Pharmaceutical supplies	.48
Hydrogen sulfide	3.33	Radiiodinated albumin	18.44
Chemicals	21.16	Electric supplies	14.94
Infrared spectras	9.00	Book	11.59
Cats	37.00	Dry ice	15.33
Binding of Journals	31.05	Infrared spectras	9.00
Mice	36.78	Hearing aid cares	8.14
Pharmaceutical supplies	7.00	Tubing & ware	17.37
Cats	10.00	Book	35.06
Tubes	12.11	Book	4.78
Chemicals	55.86	Cats	36.50
Reprints	24.10	Telegram	3.00
Chemicals	37.56	Publiching costs	33.60
Dry ice	25.40	Chemicals	8.29
Cats	16.00	Book	7.61
Animal food	68.50	Dry ice	33.98
Chemicals	12.91	Dogs	27.00
Dry ice	20.49	Pharmaceutical supplies	1.41
Cats	25.00	Rabbits	41.20
Telephone bill	4.62	Reprints	19.32
Book	14.84	Needle value	14.79
Tape dispensers	6.86	Wais	21.63
Cats & Misc. lab. supplies	26.54	Misc. supplies	5.25
Chemicals	3.76	Chemicals	26.43
Book	5.39	Slide rule	6.13
Book	17.32	La-p & connectors	28.17
Mice	63.72	Thermometers	13.63

I have examined and  
 Continued next column.

Continued to page 2

A

Date: 15 9 1953  
 SEC/Chemical Division

RYORY UNIVERSITY

B 47-39

~~██~~  
 Department of Pharmacology  
 Dr. Carl C. Pfeiffer, Director

<u>ITEM</u>	<u>AMOUNT</u>
Dade transaminase	\$ 25.75
Misc. lab. supplies	8.36
Reprints	35.48
Dry ice	16.42
Chemicals; tubing	16.32
Pharmaceutical supplies	12.96
Books	37.28
Chemicals	6.59
Misc. supplies	.06
Want-ad charges	5.40
Reprints	26.47
Book	13.17
Electron tubes	31.13
Animal food	10.18
Photographic service	36.00
Telephone bill	4.70
Chemicals	36.81
Photographic service	3.50
Total	<u>\$2,318.30</u>

I have examined and approved the submitted expenditures.

A

~~██~~

125/Chemical Division

Dates 15 December 1959

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Official Check No. G35572, dated 3 September 1959, drawn on  
[REDACTED], in the amount of  
\$48,378.00, payable to the [REDACTED] B

Cashier's Check No. UT 5486, dated 3 September 1959, drawn on  
[REDACTED] in the amount of  
\$1,935.12, payable to the [REDACTED] B

[REDACTED] C

Date: 10 Sept 59

~~SECRET~~

47-41

24 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 47, Invoice #10  
Allotment 9-2502-75-902

1. Invoice #10 covering the above subproject is attached.  
Payment should be made as follows:

- E Cashier's check in the amount of \$48,378.00, drawn on a [REDACTED]
- E Cashier's check in the amount of \$1,935.12, drawn on a [REDACTED]

Each check should be made payable to the [REDACTED] B

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by 4 September 1959.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

A [REDACTED]  
Chief  
TSS/Chemical Division

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

1 - TSS/FASB  
2 - TSS/CD  
TSS/CD/[REDACTED] A

~~SECRET~~

~~SECRET~~

47 - 41

INVOICE

For Services

\$50,313.12

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #10 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject No. 47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date: \_\_\_\_\_

~~SECRET~~

17-1  
12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA TSD/Budget Officer

SUBJECT MIKULTRA, Subproject 47, Invoice No. 12  
Allotment 2125-1390-3902

1. Invoice No. 12 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$30,740.00 drawn on a [REDACTED]

Cashier's check in the amount of \$1,229.60 drawn on a [REDACTED]

Checks should be made payable to [REDACTED]

2. Please forward the checks to Chief, TSD/Research Branch  
through TSD/Budget Officer by 24 July 1961.

3. This is a final invoice. However, since it is anticipated  
that additional funds will be obligated for this project, the files  
should not be closed.

[REDACTED] A  
Chief  
TSD/Research Branch

Attached:  
Invoice & Certifications

CHECK # 24789 AMOUNT OF \$31,969.60 RECEIVED

Distributions:  
Only 2 - Addressee

1 - TSD/FASS  
2 - TSD/RB

TSD/RB [REDACTED] A

CHECK # 11257 AMOUNT OF \$1,229.60 RECEIVED

47-43

RECEIPT

Receipt is hereby acknowledged of the following:

Official Check No. G 33737, dated 2 July 1959, drawn on the [redacted] in the amount of \$32,134.67, payable to the [redacted] - B

Official Check No. G 33736, dated 2 July 1959, drawn on the [redacted] in the amount of \$1,265.39, payable to the [redacted] - B

[redacted]

Date: 7/13/59 c

29 June 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 47, Invoice #11  
Allotment 0525-1009-4902

1. Invoice #11 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$49,498.00, drawn  
on [REDACTED]

Cashier's check in the amount of \$1,979.92, drawn  
on [REDACTED]

Each check should be made payable to the [REDACTED]

2. Please forward the checks to Chief, TSD/Research Branch  
through TSD/Budget Officer by 13 July 1960.

3. This is a final invoice. However, since it is anticipated  
that additional funds will be obligated for this project, the files  
should not be closed.

CHECKS IN THE AMOUNT OF \$1979.92  
RECEIVED 12 JUL 1960

[REDACTED] A  
Chief  
TSD/Research Branch

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

I CERTIFY THAT FUNDS ARE AVAILABLE  
FOR THE PAYMENT OF THIS INVOICE  
UNDER THE ALLIANCE PROGRAM  
0525-1009-4902

1 - TSD/FASS  
1 - TSD/RB  
CHECKS IN THE AMOUNT OF \$49,498.00  
RECEIVED 12 JUL 1960

Authorizing Officer

[Handwritten signature]





47-47

25 June 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 47, Additional Authorization No. 7

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 47 has been approved and \$50,313.12 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 9-2502-75-902.

A   
 Chief  
 TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS



A

I CERTIFY THAT FUNDS ARE AVAILABLE:  
 ORIGINATOR REFERENCE NO. 2706  
 CHANGE TO ALLOTMENT NO. 9-2502-75-902

1959

Research Director

AUTHORIZING OFFICER

Date: 30 JUN 1959

Distribution:  
 Orig & 2 - Addressee  
 1 - TSS/OC  
 1 - TSS/FASB  
 2 - TSS/CD

~~SECRET~~



~~SECRET~~

24 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA TSS/Budget Officer

SUBJECT: MKULTRA, Subproject 47, Invoice #10  
Allotment 9-2502-75-902

1. Invoice #10 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$48,378.00, drawn on [REDACTED]

Cashier's check in the amount of \$1,935.12, drawn on [REDACTED]

Each check should be made payable to the [REDACTED]

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by 4 September 1959.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

[REDACTED] Chief  
TSS/Chemical Division

Attachment: Invoice & Certifications

Distribution: Orig & X - Addressee

CHECK # 63572  
RECEIVED 9/1/59

RECEIVED

~~SECRET~~

Downloaded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET, CL BY 187475

47-50

DRAFT A  
25 June 1959

MEMORANDUM FOR: THE RECORD  
SUBJECT : MKULTRA, Subproject 47

1. The purpose of this subproject is to provide funds for the continuation of the program being carried out at Emory University under Carl C. Pfeiffer, M.D. The scope of this work basically covers the development and testing of new chemical compounds which are hallucinogenic or otherwise affect the central nervous system of humans. Certain phases of other problems of interest to TSS/CD will be investigated.

2. The nature of the investigations to be carried out under the direction of Dr. Pfeiffer encompasses the synthesis, pharmacology and pertinent biochemistry of potential hallucinogenic chemical compounds. Testing and evaluation will be conducted in normal human volunteers.

3. The funds for this project will be transferred using the

B

~~CONFIDENTIAL~~ as a cut-out.

4. The cost of this program for a period of one year beginning 1 June 1959 will not exceed \$40,378.00. To this sum must be added

Downloaded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET, CL BY 187475

~~CONFIDENTIAL~~  
FOI - b7 - D

\$1,935.12 representing a 4% service charge to the [REDACTED] B

[REDACTED] making the total amount \$50,313.12.

Charges should be made against Allotment 9-2502-75-902.

B 5. [REDACTED] has requested Emory University to submit to them a summary accounting on an annual basis of all monies received from the [REDACTED]. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

6. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

7. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of high overhead rates.

8. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

9. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

Downgraded to: ~~CONFIDENTIAL~~  
by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475

~~CONFIDENTIAL~~

47-50

10. Dr. Pfeiffer has signed the Memorandum of Agreement and holds a TOP SECRET Agency Security Approval.

A

~~CONFIDENTIAL~~

Chief

TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

~~CONFIDENTIAL~~ A  
Research Director

Date: 6/27/59

Attachment:  
Budget

Distribution:  
Original only

Downgraded to: ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

~~CONFIDENTIAL~~

47-50

PROPOSED RESEARCH BUDGET  
June 1, 1959 to May 31, 1960  
for Grant to Emory University by  
the [REDACTED]

B

PROJECT A. The synthesis and drug enzymology of possible  
hallucinogenic chemicals.

Personnel -

C {

[REDACTED]

[REDACTED]

\$8300.00  
4380.00  
USPHS Grant

Equipment  
Travel  
Consumable Supplies

2000.00  
500.00  
2500.00  
-----  
\$17,680.00  
1,768.00  
-----  
\$19,448.00

Indirect cost - 10%

PROJECT B. The Testing in normal human volunteers and the  
pharmacology of experimental hallucinogens.  
Carl C. Pfeiffer, Ph.D.M.D., Principle Investigator

Personnel -

C  
C

Carl C. Pfeiffer, Ph.D.M.D., (part-time)  
[REDACTED]  
[REDACTED]  
Stipends for human volunteers  
Summer Student Fellows (3 at \$600 each)  
[REDACTED]  
[REDACTED]

\$3000.00  
3000.00  
3000.00  
3000.00  
1800.00  
4000.00  
500.00

Equipment  
Consumable Supplies  
Travel

4000.00  
3000.00  
1000.00  
-----  
\$26,300.00  
2,630.00  
-----  
\$28,930.00

Indirect cost - 10%

Total of both projects - \$48,378.00

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

47-50

PROPOSED RESEARCH BUDGET

Personnel, including volunteers	\$30,980.00
Supplies and materiel	11,500.00
Travel	1,500.00
	<u>43,980.00</u>
Indirect Cost - 10%	4,398.00
Total	\$48,378.00

Carl C. Pfeiffer

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

47-5

23 June 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: KULATA, Subproject 47, Invoice #9,  
Allotment 8-2502-10-001

1. Invoice No. 9 covering the above subproject is attached.  
It is requested that payment be made as follows:

- Cashier's check in the amount of \$32,134.67, drawn on a [redacted] bank,
- Cashier's check in the amount of \$1,285.39, drawn on a [redacted] bank.

Each check should be made payable to the [redacted]

2. Please forward the check to Chief/TSS/Chemical Division through TSS/Budget Officer by Friday, 10 July 1959.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

[redacted]  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distributions:  
Orig & 2 - Addressee

1 - TSS/FASB

I CERTIFY THAT FUNDS ARE AVAILABLE 30 JUN 1959  
OBLIGATION REFERENCE NO. 277  
CHARGE TO ALLOTMENT NO. 8-2502-10-001

ADDITIONAL COMMENTS

CHECK RECEIVED

THE AMOUNT OF \$32,134.67 CHECK 6/27/59 FOR THE AMOUNT OF 01215

[redacted]

~~SECRET~~

47-51

INVOICE

For Services

\$33,420.06

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #9 applying to Subproject 47 of KULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject No. 47 of KULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the ICI to the DD/A, and the extension of this authority in subsequent memoranda.

Original signed by

A

Research Director

Date: \_\_\_\_\_

29 JUN 1953

~~SECRET~~



ENDRY UNIVERSITY

47-53

~~Department of Pharmacology~~ B

Dr. Carl C. Pfeiffer, Director

Summary of Receipts and Expenditures for  
the period June 1, 1958 through May 31, 1959

Balance on hand 5-31-58	B	\$ 2,156.98
Received from <del>██████████</del> 1958-59		<u>18,202.00</u>
		50,358.98

Direct Expenditures:			
Personnel	\$ 24,880.12		
Fellowships	7,200.00		
Human Subjects	2,078.00		
Travel	707.04		
Equipment	9,703.39		
Expendable Supplies	2,318.30		
Total Direct Expenditures	\$ 46,636.62		
Contribution to Indirect Cost	<u>4,578.18</u>		
Total Expenditures		\$ 51,214.80	
Overdraft as of 5-31-59			(\$ 1,105.02)
(To be absorbed by Endry University)			Overdraft

\* See attached schedules

APPROVED:

Carl C. Pfeiffer  
Dr. Carl C. Pfeiffer, M. D.  
Project Director

ENDRY UNIVERSITY

Ralph C. Davis  
Chief Accountant

I have examined and approved the submitted expenditures.

ENDRY UNIVERSITY

B

~~\_\_\_\_\_ Grant~~

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

PERSONNEL

Employee

Position

Amount

Research Professor	\$ 2,400.00 ✓
Secretary	875.00
Research Assistant	3,975.00
Assistant Professor	7,916.00
Instructor	300.00
Technician Specialist	75.00
Research Assistant	1,200.00
Research Technician	600.00
Assistant Professor	225.00
Consultant	2,025.00
Visiting Associate Professor	2,100.00
Student Assistant	526.50
Student Assistant	1,497.75
Student Assistant	765.85
Social Security	397.26
Annuity-Dr. <del>_____</del> C	11.16
<u>Total Personnel</u>	<u>\$24,860.12</u>

FELLOWSHIPS

Fellow	\$ 300.00
Fellow	300.00
Fellow	3,300.00
Fellow	3,300.00
<u>Total Fellowships</u>	<u>\$7,200.00</u>

Human Subjects

\$2,078.00

I have examined and approved the submitted expenditures.

A

~~\_\_\_\_\_~~

Chief  
ISS/Chemical Division

Date: 5 November 1954



47-53

NDRY UNIVERSITY

B

~~\_\_\_\_\_ Grant~~

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

EQUIPMENT

<u>ITEM</u>	<u>AMOUNT</u>
Freight	5.73
Hot Plates	61.80
Electric Clock	10.82
Freight	5.43
Dynastor recorder	776.78
Carton Office Machinery	29.10
Freight	20.50
Aerograph with accessories	827.86
Freight	29.43
Freight	16.54
Electroencephalograph with accessories	6,242.83
Metal Cabinet	4.19
Service charge	25.00
Semimicro polarimeter tube	30.90
Thermistemp Telethermometer	91.67
Integrateur Electronique, Scientific Apparatus	312.39
Integrator for Electroencephalograph	1,208.77
Freight	3.62
Total Equipment	<u>\$ 2,703.32</u>

I have examined and approved the submitted expenditures.

A

~~\_\_\_\_\_~~

A

SSS, Chemical Division

Date: 6 November 1957

B

ENDRY UNIVERSITY

~~\_\_\_\_\_ Grant~~  
 Department of Pharmacology  
 Dr. Carl C. Pfeiffer, Director

47-53

ITEM	AMOUNT	ITEM	AMOUNT
Chemicals	11.33	Chemicals	62.71
Photo lab. work	7.65	Wire	11.80
Freight	6.09	Bulbs	9.27
Cats	6.00	Dry ice	8.32
Dogs	18.00	Chemicals	15.20
Freight	5.27	Office supplies	8.26
Chemicals	10.14	Housekeeping supplies	1.38
Filter strips, pipettes	33.17	Cats & Postage	9.66
Celite	7.73	Misc. supplies	37.91
Animal food	39.14	Chemicals	25.39
Chemicals	20.19	Chemicals	10.90
Telephone bill	2.48	Dry ice	22.54
Misc. lab. supplies	10.42	Cats	10.50
Tubes	62.30	Bulbs	6.18
Maintenance supplies	20.38	Rabbits	24.72
Telephone bill	6.33	Chart paper	247.20
Misc. lab. supplies	18.38	Wire	40.14
Misc. lab. supplies	8.50	Maintenance supplies	4.52
Electrodes & wire	41.94	Dogs	36.00
Yeast	4.04	Pharmaceutical supplies	4.8
Hydrogen sulfide	3.33	Radiolinated albumin	18.44
Chemicals	21.16	Electric supplies	14.94
Infrared spectras	9.00	Book	11.59
Cats	37.00	Dry ice	15.33
Binding of Journals	31.05	Infrared spectras	9.00
Mice	36.79	Hearing aid cares	8.14
Pharmaceutical supplies	7.00	Tubing & ware	17.37
Cats	10.00	Book	35.06
Tubes	12.11	Book	4.78
Chemicals	55.86	Cats	36.50
Reprints	24.10	Telegram	3.00
Chemicals	37.56	Publiching costs	33.60
Dry ice	25.40	Chemicals	8.29
Cats	16.00	Book	7.61
Animal food	68.50	Dry ice	33.98
Chemicals	12.91	Dogs	27.00
Dry ice	20.49	Pharmaceutical supplies	1.41
Cats	25.00	Rabbits	41.20
Telephone bill	4.62	Reprints	19.32
Book	14.84	Needle value	14.79
Tape dispensers	6.86	Wais	24.43
Cats & Misc. lab. supplies	26.54	Misc. supplies	5.25
Chemicals	3.76	Chemicals	26.43
Book	5.39	Slide rule	6.13
Book	17.32	Lamp & connectors	28.17
Mice	63.72	Thermometers	13.63

I have examined and approved the submitted expenditures.

A

Chief  
TSS/Chemical Division  
Date: 5 November 1959

Continued next column

Continued on page 2



41-3  
D  
O  
RECEIPT

Receipt is hereby acknowledged of the following:

Treasurer's Check No. [REDACTED], dated August 6, 1958, drawn on the [REDACTED], in the amount of \$642.69, payable to the [REDACTED]

Official Check No. [REDACTED], dated August 6, 1958, drawn on the [REDACTED], in the amount of \$16,067.33, payable to the [REDACTED]

[REDACTED]

DATE: 14 Aug

B  
B  
B  
B

C

30 July 1958

MEMORANDUM FOR: CRUST, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MSULTRA, Subproject 47, Invoice No. 8,  
Allotment 8-2502-10-001

1. Invoice No. 8 covering the above subproject is attached.  
It is requested that payment be made as follows:

Cashier's check in the amount of \$16,067.33, drawn  
on a [redacted] E

Cashier's check in the amount of \$42.69, drawn  
on a [redacted] E

Each check should be made payable to the [redacted] for [redacted] B

2. The checks should be forwarded to Chief, TSS/Chemical  
Division, through TSS/Budget Officer, no later than Wednesday,  
13 August 1958. I

[redacted] Chief  
TSS/Chemical Division A

Attachments:  
Invoices and Certifications [redacted] 642.69

Distribution:  
✓ Orig & 2 - Addressee

CHECK NO. [redacted] IN THE AMOUNT OF \$16,067.33 E  
RECEIVED [redacted] Aug

888 002678 600.1 2502-10-001 172

16,719.62  
16,716.62

[redacted]

5 Aug 58

06760

47-15

INVOICE

For services

\$16,710.02

[REDACTED]

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 8 applying to Subproject 47 of MULLERA, that performance is satisfactory, that services are being accomplished in accordance with actual agreements, that a detailed agenda of the payments and receipts is on file in ISS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, ISS/Chemical Division

(2) It is hereby certified that this invoice applies to Subproject 47 of MULLERA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DDT to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

47-56

DRAFT  
19 June 1958

MEMORANDUM FOR: THE RECORD  
SUBJECT : MKULTRA, Subproject 47

1. The purpose of this subproject is to provide funds for the continuation of the program being carried out at Emory University under Dr. Carl C. Pfeiffer. The scope of this work is outlined in the attached proposal submitted to Drs. Pfeiffer and [redacted] and basically covers the development and testing of new hallucinogenic compounds as well as certain phases of other problems of interest to TSS/CD.

2. It should be noted that as in past years, a considerable portion of the total cost of the indicated program will be borne by agencies other than TSS/CD. These include the U.S. Public Health Service, Emory University, [redacted] and others.

3. The funds for this project will be transferred using the [redacted], as cutout in the usual manner.

4. The cost of this program for a period of one year, beginning 1 June 1958 will not exceed \$48,202.00, to which must be added the four percent (4%) fee to the [redacted], making the total amount \$50,130.08. Charges should be made against Allotment B-2502-10-001.

by authority of 187475

date: June 1977

47-56

E2 IMPDET, CL BY 187475

submit to them a summary accounting on an annual basis of all monies

received from the Fund. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

6. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

7. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.

8. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

9. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

10. Dr. Pfeiffer has signed the Memorandum of Agreement and holds a TOP SECRET Agency Security Approval.

  
Chief  
TSS/Chemical Division

A

APPROVED FOR OBLIGATION OF FUNDS:

  
Research Director

A

Date: June 23, 1977

Attachment:  
Proposal

Distribution:  
Original only

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977

E2 IMPDET, CL BY 187475

1. Continued testing program in animals and man of the potential hallucinatory chemicals which have been synthesized by [redacted] for which become available from commercial laboratories. [redacted] now has 30 chemicals awaiting testing in man.
2. 2-dimethylaminoethanol in preliminary trials modifies the LSD-25 model psychosis in that the onset of symptoms is delayed but in the individual subjects the visual hallucinations are more frequent. A double blind test of rigid design will be set up to quantify this effect.
3. The possible occurrence of 2-dimethylaminoethanol in natural foods will be determined by steam distillation and paper chromatography.
4. Tests will be made on Carnitine and its tertiary amine derivative to ascertain its possible role as a neurohumor in the central nervous system.
5. The D and L forms of lactylcholine have been synthesized and will be extensively tested in animals to ascertain the possible similarity to acetylcholine. Other natural occurring alpha hydroxy acids will be esterified to choline to determine their potency.
6. Continued testing in man and animals of those compounds which may be submitted by the [redacted] B
7. Determination of the effect of candidate hallucinogens on d-aminoxidase activity in vitro.

*ic Griffin MD*

WARNING NOTICE  
 SENSITIVE INTELLIGENCE  
 SOURCES AND METHODS INVOLVED

OP

OP

B

47-56

Department of Pharmacology  
 Carl C. Pfeiffer, Ph.D., M.D.

PROPOSED BUDGET 1958-1959

Personnel:

Director, Carl C. Pfeiffer (part-time)	\$ 3,000
Asst. Prof. [redacted] (full)	8,000
2 Physicians (follows) Atlanta Penitentiary	3,000
	3,000
Research Asst., [redacted]	3,000
Technician, [redacted]	3,800
Graduate Student	2,500
Animal Attend., [redacted]	2,400
Social Security and T.I.A.A.	1,020

TOTAL PERSONNEL \$29,720.

Stipends for human volunteers	\$ 3,600
Consumable supplies	5,000
Equipment	4,000
Travel	1,500

\$14,100

\$43,620

4,382

10% UNIVERSITY OVERHEAD

TOTAL PROPOSED BUDGET

\$48,202

WARNING NOTICE

SENSITIVE INTELLIGENCE  
 SOURCES AND METHODS INVOLVED

47-57

NO. 2698  
P-5509-11-01

47

ALLOTTMENT

DATE	REMARKS AND REFERENCES	OBIGATIONS INCURRED	OBIGATIONS LIQUIDATED	UNLIQUIDATED BALANCE
24 JUN 1958	Auto repair	50.130.00		50.130.00
AUG 4 1958	Income		16.710.00	33.420.00
30 JUN 1959	" "		33.420.00	-
		119		

47-58

19 June 1958

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

SUBJECT : MULTRA, Subproject 47, Additional  
Authorization No. 6

Under the authority granted in the memoranda dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$50,130.03 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$50,130.03 funds obligated during FY 58) to be charged to Allotment 8-2502-10-001.

A [Redacted]  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

A [Redacted]

Research Director

Date:

Distribution:

- Craig & 2 - Addressee
- 1 - TSS/OC
  - ✓ 1 - TSS/FASB
  - 1 - TSS/SRB
  - 2 - TSS/CD

1 CERTIFY THAT FUNDS ARE AVAILABLE  
CURRENT FUNDING NO. 2078  
SUBJECT TO ALL OF THE 8-2502-10-001

[Redacted]

24 JUN 58



## EMORY UNIVERSITY

47-59

Grant

B

Department of PharmacologyDr. Carl C. Pfeiffer, DirectorPERSONNELEmployeePositionAmount

Student Assistant	\$ 100.00
Research Assistant	525.00
Research Assistant	600.00
Research Assistant	3,000.00
Assistant Professor	1,033.32
Technician	750.00
Research Technician	275.00
Lab. Maid	481.00
Student Assistant	646.15
Student Assistant	969.24
Student Assistant	1,327.00
Research Assistant	500.00
Technician	3,275.00
Asst. Professor	7,425.00
Instructor	708.32
Technician Specialist	225.00
Student Assistant	100.00
Graduate Assistant	22.50
Instructor	45.00
Social Security	337.58
Total Personnel	\$22,695.11

FELLOWSHIPS

Fellow	\$ 600.00
Fellow	2,700.00
Fellow	2,700.00
Total Fellowships	\$6,000.00

Human Subjects

\$3,409.00

## EMORY UNIVERSITY

B

~~Grant~~Department of PharmacologyDr. Carl C. Pfeiffer, DirectorTRAVEL

<u>Date</u>	<u>Individual</u>	<u>Destination</u>	<u>Ck. No.</u>	<u>Amount</u>
6/28-30/57	Dr. Carl C. Pfeiffer	Chicago.	38761	\$ 71.26
8/23-30/57	Dr. Carl C. Pfeiffer	<del>██████████</del>	41237	110.96
C 8/23-25/57	<del>██████████</del>	<del>██████████</del>	SJ-8-147	84.37
9/3-7/57	Dr. Carl C. Pfeiffer	Washington, D.C.	41844	245.61
C 9/3-10/57	<del>██████████</del>	<del>██████████</del>	41883	64.60
12/5-6/57	Dr. Carl C. Pfeiffer	Washington, D.C.	46370	103.10
1/24-27/58	Dr. Carl C. Pfeiffer	New York City & Middleton, Conn.	49471	183.70
4/11-18/58	Dr. Carl C. Pfeiffer	Chicago and - Philadelphia	4262	<u>271.85</u>
		Total Travel		<u>\$2,135.45</u>

47-59

## EMORY UNIVERSITY

B

~~Department of Pharmacology~~ GrantDepartment of PharmacologyDr. Carl C. Pfeiffer, DirectorEQUIPMENT

<u>ITEM</u>	<u>AMOUNT</u>
Two Transducers, Model FT-03	\$ 238.89
Precision Ionograph, Senior model #6670.	1,230.85
Electric Welder	36.05
Physiological pressure transducer	399.74
Freight	26.50
Lardy warburg, manometers, reaction vessels	1,236.00
Glass Model FT-10 Force cable connector, displacement transducer	243.69
Steel case	159.08
Typewriter	205.43
Typewriter	270.16
Two desks, Two chairs	551.63
Internal thermostat probe, skin temperature thermistor probe	200.85
Total Equipment	\$4,798.37

## EXPENDABLE SUPPLIES

47-59

EMORY UNIVERSITY

B

Department of Pharmacology  
 Dr. Carl C. Pfeiffer, Director

ITEM	AMOUNT	ITEM	AMOUNT
Dogs	\$ 36.00	Kymograph paper	41.93
Chemical determinations	3.09	Chemicals	17.61
Batteries	8.33	Chemicals	69.91
Data sheets	19.83	Scotch tape	5.36
Data pads	45.32	Misc. lab. supplies	10.67
Thermometers	31.63	Chemicals	17.37
Chemicals	21.75	Chemicals	22.20
Diffusion unit	91.96	Needles, valve, stopcocks,	
Chemicals	5.75	chemicals	32.57
Manual	1.55	Chemicals	47.86
Mice	60.97	Gas (O2)	14.83
Chemicals, glassware	44.20	Animal food, eggbar shavings	37.70
Cats, postage	39.48	Photographic work	87.75
Chemicals	46.83	Chemical determinations	40.60
Culture	4.47	Misc. lab. supplies	38.84
Chemicals	3.31	Reference book	5.88
Alcohol	6.41	Repair mostoid ronguers	5.00
Chemicals	2.66	Animal food	26.27
Spatulas, chemicals	34.56	Chemicals	54.79
Cats, lab. supplies	15.60	Plywood	7.81
Cats, lab. supplies	34.46	Regulator	30.13
Bottles, tubing adapter	41.57	Thermometers	81.43
Animal food	42.16	Reprints	59.65
Chemicals	5.83	Alcohol	2.56
Animal food	43.78	Pharmaceutical supplies	5.80
Chemicals	19.37	Chemicals	47.84
Animal food	13.39	Reference book, slides	14.10
Cats	24.00	Chemicals	2.90
Chemical determinations	41.00	Thermometers, chemicals	13.94
Freight	4.37	Office supplies	10.00
Chemicals	19.57	Table cart	67.35
Tubes	31.91	Alcohol	3.85
Research notebooks	119.58	Pharmaceutical supplies	58.55
Record supplies	29.25	Chemicals	8.47
Melting point apparatus	21.73	Reprints	31.65
Wire, tubing	19.37	Reduction gear	10.25
Cats, postage, misc. supplies	38.91	Chemicals	2.93
Pharmaceutical supplies	24.50	Freight	4.23
Chemical analysis	6.65	Mice	33.43
Pipettes, acetone, ligroine	84.91	Needles	21.80
Stainless steel spatulas	24.00	Slides	7.93
Chemicals	155.50	Fork Liver	4.90
Animal food	26.27	Sturditips	1.22
Ether	17.33	Chemicals, tubing, stoppers	57.68
Photographic service	23.10	Magnifier	36.02

Continued next column

Continued to Page 2

47-59

EXPENDABLE SUPPLIES

<u>ITEM</u>	<u>AMOUNT</u>	<u>ITEM</u>	<u>AMOUNT</u>
Forward from Page 1.			
Drugs	\$ 15.97	Aluminum foil, dispenser	18.98
Electric Motor	8.76	Drugs	12.57
Misc. lab. supplies	37.84	Bottles	31.93
Chemicals	19.60	Magnetic bars	3.99
Apron, flasks, tubes	35.82	Plastic cover	5.67
Red herringbone toweling	9.27	Watch, glasses, chemicals	4.69
Stethoscope-head, tubing	13.39	Stoppers	4.27
Chemical determinations	13.00	Chemicals	16.07
Swivel casters	9.02	Flasks, chemicals	17.82
Nullmatic pressure regulator	23.68	Drugs	16.98
Plastic covers, chemicals	15.44	Chemicals	17.01
Photographic work	23.25	Chemicals	32.42
Ice tongs	11.21	Chemicals	5.56
Ether, funnels	11.06	Reprints	26.65
Freight	2.08	Chemicals	36.07
Office supplies	5.50	Reprints	41.43
Tape	1.44	Chemicals	8.60
Alcohol	3.85	Office supplies	1.80
Pharmaceutical supplies	8.00	Cats	10.00
Chemicals	10.67	Photographic service	9.50
Stoppers, grease, test tubes	19.03	Chemicals	16.63
Adapter	3.20	Funnels	11.25
Chemicals	2.58	Chemicals	206.00
Casters	6.15	Animal food	44.70
Chemicals	6.56	Freight	4.59
Forceps, scalpel	9.21	Animal food	15.48
Binding journals	30.90	Misc. lab. supplies	3.97
Reference Book	6.51		
Chemicals	2.02	Total	\$4,020.27
Forceps	16.96		
Chemicals	11.17		
Chemicals	14.20		
Reprints	33.00		
Misc. lab. supplies	37.79		
Chemicals	20.81		
Chemicals, flasks	14.28		
Freight	2.30		
Chemicals	8.55		
Funnel	2.59		
Chemicals	25.03		
Polyak vertebrate visual system	37.52		
Chemical determinations	13.39		
Freight	2.24		
Chemicals	8.78		
Funnels	5.62		
Helium, valve	18.47		
Miscellaneous supplies	30.94		
Chemicals	16.53		
Freight	5.43		
Chemicals	21.16		
Chemicals	4.64		
Chemical determinations	39.50		

RECEIPT

47-60

I hereby acknowledge receipt of the following two checks:

Cashier's Check No. ~~\_\_\_\_\_~~<sup>E</sup>, dated April 30, 1958, drawn on The ~~\_\_\_\_\_~~, in the amount of \$32,280.67, payable to the ~~\_\_\_\_\_~~<sup>B</sup>

Registered Check No. ~~\_\_\_\_\_~~<sup>E</sup> drawn on the ~~\_\_\_\_\_~~<sup>E</sup>, in the amount of \$1,291.23, payable to the ~~\_\_\_\_\_~~<sup>B</sup>

~~\_\_\_\_\_~~<sup>C</sup>

Date: 30 May 58

$$\begin{array}{r} JV 480.67 \\ 1,291.23 \\ \hline 23,571.90 \end{array}$$

47-61

22 April 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

SUBJECT

TSS/Budget Officer

MOLTRA, Subproject 47, Invoice No. 7,  
Allotment 7-2502-10-001

1. Invoice No. 7 covering the above subproject is attached. It is requested that payment be made as follows:

Cashier's check in the amount of \$32,200.67, drawn on a [redacted] E

Cashier's check in the amount of \$1,291.23, drawn on a [redacted] E

Each check should be made payable to the [redacted] B

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Wednesday, 7 May 1958.

3. This invoice represents the total amount currently authorized under Subproject 47. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

CHECK # [redacted] IN THE AMOUNT OF \$22,386.71 RECEIVED 19 MAY 1958

Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distributions:  
Orig & 2 - Addressee

1 - TSS/FASB  
2 - TSS/CD

CHECK # [redacted] IN THE AMOUNT OF \$1222.25 RECEIVED 20 MAY 1958

I CERTIFY THAT FUNDS ARE AVAILABLE  
ORIGINATION REFERENCE No. 2976  
CHARGE TO ALLOTMENT No. 7-2502-10-001

AUTHORIZING OFFICER



5 August 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA TSS/Budget Officer

SUBJECT: MKULTRA - Subproject 47, Invoice 7-6  
Allotment 7-2502-10-001

1. Invoice 16 covering the above subproject is attached. Other invoices will follow. It is requested that payment be made as follows:

Cashier's check in the amount of \$16,140.33, drawn on a ~~bank~~ bank.

Cashier's check in the amount of \$645.61, drawn on a ~~bank~~ bank.

Each check should be made payable to the ~~treasury~~ B

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Tuesday, 20 August 1957.

Acting Chief  
TSS/Chemical Division

Attachments:  
Invoice and Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller

1 - TSS/FASB  
2 - TSS/CD

1. CHECKS THAT FUNDS ARE AVAILABLE  
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A/C  
S/RB  
1500  
10 AUG 1957

47-6  
INVOICE

For services

\$16,785.94 B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #6 applying to Subproject #47, of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject #47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

47-63  
July 1957

RECEIPT

I hereby acknowledge receipt of the following two checks:

Cashier's Check No. [redacted] <sup>E</sup> dated August 23, 1957, drawn on  
The [redacted] in the amount  
of \$16,140.33, payable to the [redacted] <sup>B</sup>

Cashier's Check Check No. [redacted] <sup>E</sup>, drawn on the [redacted] <sup>E</sup>  
in the amount of \$645.61, payable  
to the [redacted] <sup>B</sup>

[redacted] <sup>C</sup>  
Date: 28 Aug 57

EMORY UNIVERSITY

~~\_\_\_\_\_~~ Grant **B**

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

Summary of Receipts and Expenditures for the Period  
June 1, 1956 through May 31, 1957

Unexpended balance May 31, 1956	\$ 377.38
Received from <del>_____</del> <sup>B</sup> this period	47,403.00
Total Funds available this period	\$47,780.38

Direct Expenditures:\*

Personnel	\$28,743.75	
Human subjects	3,493.00	
Travel	1,963.50	
Equipment	5,563.74	
Expectable Supplies	4,237.97	
Total Direct Expenditures	\$44,001.96	
Contribution to Indirect Cost	4,309.00	
Total Expenditures	\$48,310.96	48,310.96

Credit Balance as of May 31, 1957  
(Emory University will absorb this overdraft) (\$ 530.58)

I have examined and approved the submitted expenditures.

\*See attached schedules.

~~\_\_\_\_\_~~ **A**  
 TSS/CHEMICAL DIVISION  
 Chief  
 Emory University  
 JUL 23 1957

Approved:

Carl C. Pfeiffer  
Carl C. Pfeiffer, M. D.  
Project Director

Evell E. Bossent  
Evell E. Bossent, C. P. A.  
Controller



47-64

ENDRY UNIVERSITY

B

[Redacted] Grant

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

TRAVEL

<u>Date</u>	<u>Individual</u>	<u>Destination</u>	<u>Amount</u>
6-29-56	[Redacted]	[Redacted]	171.18
10-1-56	[Redacted]	[Redacted]	2.07
10-1-56	Dr. Carl C. Pfeiffer	[Redacted] & Wash., D.C.	238.07
10-23-56	Dr. Carl C. Pfeiffer	[Redacted]	77.98
10-25-56	[Redacted]	[Redacted]	157.41
11-27-56	[Redacted]	[Redacted]	67.45
11-27-56	Dr. Carl C. Pfeiffer	French Lick, Ind.	132.14
11-28-56	[Redacted]	[Redacted]	263.69
11-28-56	[Redacted]	[Redacted]	38.46
12-27-56	Dr. Carl C. Pfeiffer	[Redacted]	154.52
3-27-57	Dr. Carl C. Pfeiffer	[Redacted]	136.15
4-25-57	[Redacted]	[Redacted]	97.06
4-30-57	[Redacted]	[Redacted]	164.67
5-29-57	Dr. Carl C. Pfeiffer	[Redacted] and Washington, D. C.	112.81
5-30-57	[Redacted]	Chicago, Ill.	136.94
			13.30
Total Travel			\$ 1,963.50

I have examined and approved the submitted expenditures.

8 SIDNEY COITLIEB  
Chief  
TSS/Chemical Division

APR 23 1957

Date

EMORY UNIVERSITY

47-64

Grant

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

EQUIPMENT

<u>Item</u>	<u>Amount</u>
Drip pans	\$ 147.66
Conversion Model thermometers	78.88
Dazor Lamp	16.67
Dry Ice storage cabinet	123.09
Desk	50.99
Chair	36.42
Stopcocks	14.84
Transcribing, dictating machines	334.75
Stopcocks	3.04
Strain gauge arches	108.15
Respiration pump	395.86
Freight, customs on scientific apparatus	142.71
Grinder, saw 6 1/4" sander	185.92
Freight	10.45
Telephone cabinet	67.10
Freight	4.91
1 Sofa, leather	309.00
Input couples for EEG	247.20
Desk	50.99
Reinforcing desk top	2.39
One Model III-D Electroencephalograph	3,235.99
Partial refund on typewriter reported last period	( 3.21)
<b>Total Equipment</b>	<b>\$ 5,563.74</b>

I have examined and approved the submitted expenditures.

*B*  *A*  
 Chief  
 TSS/Chemical Division

Date

JUL 23 1957

IBORY UNIVERSITY

B

Grant.

47-44

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

EXPENDABLE SUPPLIES

<u>Item</u>	<u>Amount</u>	<u>Item</u>	<u>Amount</u>
Flasks	\$ 4.79	Freight	\$ 2.42
Chemicals	12.91	Gasket	.55
Homeostats, Forceps	84.65	200 bars Ivory soap	9.15
Animal food	67.77	Dogs	305.00
Animal food	6.54	Telephone calls	8.47
Chemicals	9.43	Drugs	.55
Telephone call	6.66	Postage, drugs, file	26.76
Photographic work	81.25	Freight	1.99
Chemicals	47.56	Thermometers	14.13
Rubber tubing, chemical bottles	23.32	Knife blade	4.55
Desk	12.62	KM paper	283.25
Platinum Oxide	35.17	Pyrex stirrers	52.74
Drugs	7.35	Bio of lab. mouse, shell	6.38
Magnets	21.09	Design cards	2.27
Multiplosic Personality inventory	24.21	Telegram	3.70
Tubing, adapters	7.85	Book	10.17
Office Supplies	21.51	Laundry	41.65
Drugs	34.55	Rate pads	19.50
Alcohol	1.71	Nice lab. supplies	15.66
Dogs and cats	170.00	Telephone calls	5.01
Postage, telegram, drugs	40.73	Dogs	145.00
MPI cards & recording sheets	38.73	Book - reference	8.23
Rats	66.38	100 metal card holders	15.49
Culture caps	9.79	Telephone call	2.09
Chemicals	65.06	Telephone call	12.82
Insulators	5.49	Coats	12.02
Hypo needles, thermometers	29.27	Chemicals, tubing, spoons	50.33
Bottles & chemicals	54.07	exp. material	24.74
Mice	58.32	designed and approved the sub	5.89
Drugs	31.14	Frames	50.26
Muller clips	22.16	Freight	3.88
Paper roller	5.03	Miscellaneous expenses	30.00
Drugs	11.52	Chemicals	826.68
Drugs	3.12	Laundry	43.59
Angle iron & casters	40.15	Stopcock	8.54
chemicals	18.03	Chemicals	7.56
Laundry	31.72	Photographic work	32.50
Gas & needle valve	22.56	Chemical determinations	21.63
Flywood	85.04	Chemicals	391.82
Photographic work	4.00	Chemicals, flasks	20.32
		Chemicals	5.10
		Chemicals, lab. coats	21.50

Continued next column

Balance forward next page

designed and approved the sub  
expenses  
A  
JUL 23 1944

EMORY UNIVERSITY

B  
Grant

47-64

EXPENDABLE SUPPLIES

<u>Item</u>	<u>Amount</u>
Continued from Page 1	
Freight	4.74
Miscellaneous lab. supplies	30.13
Alcohol	3.85
Dogs & cats	50.00
Drugs	19.76
Chemicals	4.48
Animal food	21.14
Tubes	17.67
Bottles	14.83
Chemicals	22.92
Service typewriter	14.58
Chemicals	72.55
Record books	16.22
Desk sorter	3.81
Chemicals	20.96
Mice	62.50
Pipe wire	.12
Total Expendable Supplies	\$ 4,237.97

I have examined and approved the submitted expenditures.

A  
Date

~~\_\_\_\_\_~~  
SIDNEY COYLLIES  
Chief  
TSS/Chemical Division

47-65

NO. 2770

P. 2502-11-001

11

STATEMENT

DATE	ISSUES AND REFUNDERS	OBLIGATIONS INCURRED	OBLIGATIONS LIQUIDATED	CUMULATIVE BALANCE
Apr. 1957	Initial tax 5	50,357.81		50,357.81
10 AUG 1957	Interest 6		1,752.91	33,571.90
24 APR 1958	Interest 1		3,357.90	
		24 APR 1958 119		

~~SECRET~~

47-66

24 May 1957

MEMORANDUM FOR: COMPTROLLER

ATTENTION: Finance Division

SUBJECT: MKULTRA, Subproject 47, Additional Authorization No. 5

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$50,357.84 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$50,357.84 funds obligated during FY 57), to be charged to Allotment 7-2502-10-001.

SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

A *Original signed by*  
~~\_\_\_\_\_~~

Research Director

Date: MAY 29 1957

Distribution:  
Orig & 2 - Addressee

- 1 - TSS/OC
- 1 - TSS/FASB
- 1 - TSS/SRB
- 2 - TSS/CD

TSS/CD: ~~\_\_\_\_\_~~ (24 May 57)

A

~~SECRET~~

28 JUN 57  
RECEIVED TSS/CD  
3220-  
2-2502-10-001

H/C  
SRB  
1045  
8 JUN 57

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA, Subproject 47

1. The purpose of this subproject is to provide funds for the continuation of the program being carried out at Emory University under Dr. Carl C. Pfeiffer. The scope of this work is outlined in the attached proposal submitted by Drs. Pfeiffer and ~~\_\_\_\_\_~~ and basically covers the development and testing of new hallucinogenic compounds as well as certain phases of other problems of interest to TSS/CD.

2. It should be noted that as in past years, a considerable portion of the total cost of the indicated program will be borne by agencies other than TSS/CD. These include the U.S. Public Health Service, Emory University, the ~~\_\_\_\_\_~~ and others.

3. The funds for this project will be transferred using the ~~\_\_\_\_\_~~, as cutout in the usual manner.

4. The cost of this program for a period of one year, beginning 1 June 1957 will not exceed \$48,421.00 to which must be added the four percent (4%) fee to the ~~\_\_\_\_\_~~, making the total amount \$50,357.84. ~~\_\_\_\_\_~~ \$50,130.08

5. The ~~\_\_\_\_\_~~ has requested Emory University to submit to them a summary accounting on an annual basis of all monies received from the Fund. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

6. The requirement for a six months informal accounting on the part of the principal investigator is waived.

7. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.

8. In connection with travel under this project, it is agreed

by authority of 187475

date: June 1977

- 2 -

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E2 IMPDET; CL BY 187475

that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

9. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

10. Dr. Pfeiffer has signed the Memorandum of Agreement and holds a Top Secret Agency Security Approval.

[Redacted]

A

Chief, -Branch II  
TSS/Chemical Division

APPROVED FOR OBLIGATION FOR OBLIGATION OF FUNDS: Approved;

[Redacted]

A

Research Director

~~Chief, TSS/Chemical Division~~

A

Date: MAY 20 1977

Attached:  
Proposal

Distribution:  
Original only

Downgraded to: CONFIDENTIAL

by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475

## A. Human volunteers - Atlanta Federal Penitentiary

1. Potentiation of LSD-25 psychosis with cortisone
2. Trials of new hallucinogenic agents
3. Dibenzamine and Dibenzylamine as antagonists to LSD-25
4. Search for new antagonists to LSD-25
5. Trials of the so-called inactive isomer 1-LSD-25 as a hallucinogen
6. Trials of other CNS active drugs

## B. Pharmacological and biochemical studies

1. In vitro studies of candidate hallucinogens on enzyme systems
  - a. Cholinesterases, b. Mono- and diamine oxidases, c. Glucose metabolism of *S. cerevisiae*, d. d-amino acid oxidase
2. Effect of candidate compounds on rabbit body temperature
3. Effect on activity of mice
4. Gaddan rat uterus - inhibition of 5-HT
5. Pharmacodynamic studies in the anesthetized dog
6. Chronic toxicity and safety studies on promising compounds before trial in man
7. Pharmacodynamic studies on optically active esters of choline.

## C. Chemical synthetic program

1. Synthesis of substituted piperidine carboxamides
2. Synthesis of aryl alkyl amine derivatives
3. Synthesis of indolyl alkyl amine
4. Synthesis of optically active esters of choline
5. Synthesis of a few additional salts of 2-dimethylaminoethanol

## D. Clinical studies in schizophrenia

1. Continued trials of 2-dimethylaminoethanol in patients
2. Trial of naturally occurring sulph hydryl compounds in schizophrenia

**WARNING NOTICE**SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

The experimental subjects are a group of sixteen volunteers, inmates of the U. S. Federal Penitentiary at Atlanta, Georgia. Healthy and emotionally stable (as determined by psychometric tests) individuals are chosen. Their mean age at present is 34 years, their mean weight is 160 pounds. Their I.Q.s. range from 90 to 123. The doses of drugs are administered at random at weekly intervals. All subjects have experienced the effects of central nervous system stimulants and depressants. They are able to identify and to communicate the subjective responses to these drugs and have proven that their responses are somewhat reproducible.

Tests are carried out in a hospital room. The subjects are encouraged to stay in bed during the trials. Drugs are administered orally, two hours after a light morning breakfast. Testing is usually done single or double blind. The drugs are handed to each subject in a small labeled bottle. The label bears only the name of the subject. The subjects place the tablets or capsules in their mouth under supervision of the physician and wash them down with a cup of quinine flavored water. The evaluation of the drug effects is based on three types of responses.

- A. Observations are made by the attending doctor during a three-hour test period following administration of the drug. These include measurements of blood pressure, pulse rate, body temperature and hand steadiness at 60 or 90 minutes intervals. It also includes observations on the neurological and mental status of the subjects, such as alertness, sleep and arousal from sleep.
- B. A personal interview is made at the end of the three-hour period. In this interview the subject is encouraged to tell his feelings under the influence of the drug and compares them with similar or dissimilar effects which he may have experienced with the other drugs on previous trials.
- C. Twenty-four hour statement. The subjects prepare a written statement of the effects experienced in the twenty-four hour period after the administration of the drug. The criteria for the effects were established by the subjects themselves. Subjects were told either after the interview or after they had prepared their written statement which drug and dose had been administered. This increases their degree of drug sophistication and allows them to evaluate new drug effects.

A careful study of SAR of acetylcholine Ach and atropine-like compounds indicates that the naturally occurring Ach-like compound should have an asymmetric carbon atom in the acid moiety. The evidence for the existence of Ach in body fluids is tenuous since identification has been made only by Reinecke precipitation which method only tests for quaternary nitrogen containing compounds. A few of the optically active acids which might be esterified with choline are lactic, pantothenic and ascorbic acids. These analogues of Ach are therefore in process of being synthesized to determine their pharmacodynamic effect.

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

COMPOUNDS HAVING A POTENTIAL EFFECT UPON THE CENTRAL NERVOUS SYSTEM  
WITH EMPHASIS UPON MOIETIES ORIGINATING HALLUCINATORY EFFECTS

by

[REDACTED]

OUTLINE

of

Fourth Report  
(January 1, - May 30, 1957)

I. The work was continued in accordance with the outline of the Third Report, submitted in December 1956.

A. Substituted Piperidinecarboxamides:

- (1) compounds synthesized and postulated structure confirmed:
  - a. 1-methyl-3-(N-methylcarboxamido)-1,2,5,6-tetrahydropyridine hydrochloride (G-36)
  - b. 1-methyl-3-(N-ethylcarboxamido)-1,2,5,6-tetrahydropyridine hydrochloride (G-37)
  - c. 1,1-bis[3-(N,N-diethylcarboxamido)piperidino]methane (G-109)
- (2) work in progress:
  - a. synthesis of 1-methyl-4-phenyl-4-(N,N-diethylcarboxamido)piperidine hydrochloride (G-38)

B. Arylalkylamine Derivatives:

- (1) compounds synthesized and postulated structure confirmed:
  - a. N,N-diethyl-β-bromo-propionamide (GI-103, X), intermediate
  - b. N-phenethyl-N-methyl-β-alanine diethylamide hydrochloride (GI-104, XI)

C. Indolylalkylamine Derivatives:

- (1) compounds synthesized and postulated structure confirmed:
  - a. 4-(N,N-diethylamino)butyl 3,4,5-trimethoxybenzoate (GI-503, XXIX), aliphatic analogue of reserpine
  - b. 4-(N,N-diethylamino)butyronitrile (GI-551, XXXIII), intermediate
  - c. 4-(N,N-diethylamino)butylamine (GI-552, XXXIV), intermediate
- (2) work in progress:
  - a. synthesis of N-(4-(N,N-diethylamino)butyl)-3,4,5-trimethoxybenzamide (GI-553, XXX), aliphatic analogue of reserpine
  - b. synthesis of N-formyltryptamine (GI-201, XIV), intermediate

II. In addition to the work already in progress, new projects have been undertaken.

- A. Utilizing the products of our synthetic program, we are planning to study the effect of gradual changes in molecular constitution upon enzymes as-

WARNING NOTICE  
 SENSITIVE INFORMATION  
 CONTAINS METHODS AND MATERIALS INVOLVED

sociated with brain metabolism and, possibly, upon other pertinent biochemical systems, *in vitro*. Based on the information available at the present time, the systems listed below are being considered for the first series of evaluative experiments. While we realize that their causal connection with hallucinatory disturbances has not been conclusively established, we feel that they constitute a suitable starting point. In each instance, known psychotomimetic agents will be evaluated along with our compounds.

## (1) cholinesterases:

- a. acetylcholinesterase (substrate: acetyl- $\beta$ -methylcholine; compounds studied: pyridine- and piperidinecarboxylic acid, arylalkylamine and indolylalkylamine derivatives; effects studied: inhibition and/or potentiation; method: Warburg manometric technique)
  - b. pseudocholinesterase (substrate: butyrylcholine and/or benzoylcholine; compounds studied: pyridine- and piperidinecarboxylic acid, arylalkylamine and indolylalkylamine derivatives; effects studied: inhibition and/or potentiation; method: Warburg manometric technique)
- LSD was found to be a powerful inhibitor of pseudocholinesterase in human serum and brain. Pseudocholinesterase activity of rat, guinea-pig, rabbit, chicken and monkey brain is much less sensitive to inhibition by LSD than is the corresponding enzyme in human brain. Pseudocholinesterase was inhibited more powerfully by LSD than by other ergot alkaloids. (R. H. S. Thompson, A. Tickner and G. R. Webster, Brit. J. Pharmacol., 10: 61, 1955.) LSD was found to inhibit (50%) pseudocholinesterase activity at a  $1 \times 10^{-6}$  M. concentration and was found to augment (50%) the activity of the enzyme at  $6 \times 10^{-6}$  M. concentration. Similar observations were reported for serotonin (5-hydroxytryptamine). (G. H. Fried and W. Antopol, Fed. Proc., 16: 357, 1957.)
- Heperidine (1-methyl-4-phenyl-4-carbethoxypiperidine) and other narcotic analgesics capable of producing hallucinations were reported to potentiate (42-135%) the hydrolysis of benzoylcholine by pseudocholinesterase at concentrations ranging from  $10^{-5}$  to  $10^{-4}$  M. (E. G. Erdos and S. P. Shanor, Fed. Proc., 16: 297, 1957.) Tryptamine and benzylamine (phenylmethylamine) were found to activate (43-93%) the hydrolytic action of pseudocholinesterase upon benzoylcholine. (E. G. Erdos, F. F. Foldes, N. Eaart and S. P. Shanor, Fed. Proc., 16: 294, 1957.)

## (2) amine oxidases:

- a. monoamine oxidase and b. diamine oxidase (substrate: arylalkylamine and indolylalkylamine derivatives; compounds studied: known and potential inhibitors, our pyridine- and piperidinecarboxylic acid derivatives; effects studied: inhibition and/or potentiation, evaluation of relationships in the substrate affinities of the two enzymes; method: Warburg manometric technique)

Monoamine oxidase is considered to be a major catalyst of serotonin metabolism in tissues. Iproniazid is reported to inhibit monoamine oxidase in the brain, but unable to penetrate to the site of monoamine oxidase in intact cells of other tissues. (H. Weissbach, D. F. Bogdanich, B. Redfield and S. Udenfriend, Fed. Proc., 16: 345, 1957.) Relationships between monoamine oxidase and diamine oxidase were reported. There is indication that the affinities of the two enzymes are overlapping; however, some of their characteristics have been found to retain their specificities. Mescaline (3,4,5-trimethoxyphenethylamine) and tyramine were reported to be among the substrates of diamine oxidase, while some  $\beta$ -aminoethylimidazoles were found to be substrates for monoamine oxidase. (E. A. Zeller, J. Earsky, L. A. Flenkama, and J. C. Lazarus, Fed. Proc., 16: 276, 1957.)

(3) Saccharozymes cerevisiae:

- S. cerevisiae (substrate: glucose; compounds studied: pyridine- and piper-

47-68

ridinecarboxylic acid, arylalkylamine and indolylalkylamine derivatives; effects studied: inhibition and/or potentiation of carbohydrate metabolism as determined by manometric estimation of oxygen consumption; method: Warburg manometric technique; an exploratory study of the effect of our compounds upon the glycogen metabolism of *S. cerevisiae* is also contemplated)

LSD and mescaline (3,4,5-trimethoxyphenethylamine) were reported to inhibit respiration of *S. cerevisiae* (substrate: glucose) at  $10^{-5}$  to  $10^{-4}$  and  $10^{-2}$  M. concentrations, respectively. (H. P. Rieder, *Confinia Neurologica*, 14: 65, 1954.)- Clinical investigations suggested that LSD induced hallucinations may be due to interference with normal carbohydrate metabolism. (W. Meyer-Gress, W. McAden and J. W. Walker, *Nervenarzt*, 23: 50, 1952.; cf. *Nature*, 168: 827, 1951 and *J. Mental Sci.*, 99: 804, 1952.)-

B. In connection with the investigation designed to develop means for an improved supply of muscarinic agents to brain tissue, Dr. Pfeiffer suggested the preparation of the following compounds:

- (1) the dl, l and d isomers of lactylcholine
- (2) the l and d isomers of pantothenylcholine
- (3) the choline ethers of d- and l-ascorbic acid

The dl-lactylcholine iodide has been already prepared, the postulated structure was confirmed, and a synthetic procedure was developed which may be of value in industrial processing, should the compound or any of its isomers possess chemotherapeutic potentialities.

C. In connection with the Deamer Project, Dr. Pfeiffer suggested:

- (1) exploratory work to determine whether 2-dimethylaminocethanol is present in detectable quantities in food materials,
- (2) the preparation of salts of 2-dimethylaminocethanol with the following acids:

- a. d-pantothenic acid
- b. d-pantoic acid
- c. p-acetylamino benzoic acid
- d. dl-mandelic acid

The d-pantothenic acid and d-pantoic acid salts have been prepared. Additional quantities of already known salts have also been prepared.

Emory University, May 17, 1957.



**WARNING NOTICE**

SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED



FILE PFEIFFER

B

PROPOSED BUDGET 1956-1957

47-7

Grant to Emory University, Dept. of Pharmacology  
Carl G. Pfeiffer, Ph.D., M.D., Principal Investigator

June 1, 1956 - May 31, 1957

PERSONNEL:

Asst. Prof., [redacted] C	\$ 7,200	
Asst. Prof., [redacted]	6,500	
Consultant, Carl G. Pfeiffer*	3,000	
Research Asst., [redacted]	3,000	
Technician, [redacted]	3,000	
Technician, [redacted] (1/2) C	1,800	
Technician, [redacted]	3,000	
Graduate Student	2,400	
Secretary (Part)	500	
Animal Attendant, [redacted] C	1,100	
2% OASB	524	
*5% Retirement	635	

total personnel \$31,500 \$31,500

Stipends for Human Volunteers  
(Atlanta Federal Penitentiary) \$ 2,000 \$ 2,000

Consumable Supplies	\$ 2,094	
Equipment	6,000	
Travel	1,500	
	\$ 9,594	\$9,594

10% University Overhead	\$ 4,309	\$43,094
		4,309

TOTAL BUDGET \$47,403



47-72  
11 September 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MKULTRA Subproject 47  
Invoice No. 5, Allogment 6-2502-10-001

1. Invoice No. 5 for the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$1,254.03, drawn on a [redacted] bank.

Cashier's check in the amount of \$31,602.00, drawn on a [redacted] bank.

Both checks should be made payable to the [redacted] B

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 21 September 1956.

E  
3. This is a final invoice. A total of \$66,174.34 was obligated under this subproject during FY 55. However since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

CHECK # 318 IN THE AMOUNT OF \$31,602.00  
RECEIVED 28 SEP 1956

A  
SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller  
1 - TSS/PASB - BFL  
2 - TSS/CO

TSS/CO: [redacted] (11 September 1956)

6  
CHECK # 10333 IN THE AMOUNT OF \$1,254.03  
RECEIVED 23 SEP 1956

VDP [redacted] A

1 COPY THAT SEND TO [redacted] 11 SEP 1956  
[redacted] 2535  
[redacted] 2502-10-001

CHIEF  
H/c  
[redacted] A

INVOICE

47-72

For services

\$32,866.08

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 5 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

RECEIPT

47-10  
477

Receipt is hereby acknowledged of the following two checks:

(E) [redacted] dated July 12, 1956, drawn on the [redacted] in the amount of \$15,801.00, payable to the [redacted] (E)

(E) [redacted] dated July 13, 1956, drawn on the [redacted] in the amount of \$32.04, payable to the [redacted] (E)  
(17)

Date 19 July 56

47-74

3 July 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MKULTRA Subproject 47  
Invoice No. 4, Allotment 6-2502-10-001

1. Invoice No. 4 for the above subproject is attached. Payment should be made as follows:

o [redacted] In the amount of \$15,601, drawn on a

o [redacted] In the amount of \$832.04, drawn on a

Both checks should be made payable to the [redacted] B  
[redacted] Other invoices will follow later.

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Wednesday, 13 July 1956.

[redacted] A  
Acting Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications  
(Orig & 1)

Distribution:  
Orig & 2 - Addressee:  
1 - Comptroller

✓ 1 - TSS/FASB  
2 - TSS/CD

TSS/CO (3 July 1956)

CHECK [redacted] IN THE AMOUNT OF \$632.04  
RECEIVED 17 JUL 1956

CHECK [redacted] IN THE AMOUNT OF \$832.04  
RECEIVED 17 JUL 1956

ADMINISTRATIVE

~~CONFIDENTIAL~~

47-74

INVOICE

For services

\$16,433.04

B



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 4 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

~~CONFIDENTIAL~~



47-74

7 June 1958

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division  
SUBJECT : MKULTRA Subproject 47,  
Additional Authorization #4

1. Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$48,299.12 has been authorized to cover the subproject's expenses (thereby bringing the funds obligated during FY 55 to a total of \$28,174.34).

2. This expenditure should be charged against Allotment 6-2502-10-001.

I CERTIFY THAT FUNDS ARE AVAILABLE 20 JUN 1958  
OBLIGATION REFERENCE NO. 2525  
CHARGE TO ALLOTMENT NO. 6-2502-10-001

AUTHORIZING OFFICER

SIDNEY GOTTLIEB, Chief,  
TSS/Chemical Division

APPROVED FOR  
OBLIGATION OF FUNDS:

~~\_\_\_\_\_~~  
Research Director

Distribution: 1-71  
Orig & 2 - Addresses

- 1 - TSS/OC
  - 1 - TSS/FASBP
  - 1 - TSS/SRB
  - 2 - TSS/CD
- TSS/CD (6 Jun 58)

Date: \_\_\_\_\_

47-71

TRANSMIT L SLIP DATE

TO: [REDACTED]

ROOM NO. BUILDING

REMARKS:

*For file*

*FILE 47*

FROM: [REDACTED]

ROOM NO. BUILDING EXTENSION

FORM NO. 241 1 FEB 55 241 REPLACES FORM 36 4 WHICH MAY BE USED. (7)

Downgraded to ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

47-77

A

DRAFT

7 June 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 47

1. The purpose of this project is to provide funds to continue the research program conducted by Dr. Carl Pfeiffer at Emory University. This program is designed to exploit all the knowledge and facilities available to its director in providing answers to specific questions of direct interest to the Agency. In addition, those areas of basic knowledge required to provide these practical answers will be developed. It should be noted that although the attached proposal describes the facilities which will be used in the study, the program itself was deliberately described in general overt terms in order to comply with its unclassified status.

2. In view of the above it is desired to describe more specifically the various phases of the general program here:

- (a) A relatively small part of the program will be in the fundamental field of the relationship of structure to activity. This basic study will be of an overt nature and will serve the purpose of maintaining cover for the ~~program~~ support of the program.

Downgraded to ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

~~CONFIDENTIAL~~  
TOP SECRET

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

47 - 77

-2-

- (b) A second phase will be represented by an extensive effort on behalf of Dr. Pfeiffer to find a solution to the requirement for an anti-interrogation drug. This requirement was laid on TSS/Chemical Division by another Agency component.
- (c) A third phase of the program will provide screening and evaluation of compounds submitted by TSS/CD, including the phases involving tests in human volunteers.
3. The funds for this project will be transferred using the ~~the following procedure~~, as outlined in the usual manner. B
4. Costs for this program for a period of one year beginning 1 June 1956 are estimated to be \$47,403.00, to which must be added a four percent (4%) fee to the ~~total~~, making the total amount \$49,299.12. B
5. The ~~University~~ has requested Emory University to submit to them a summary accounting on an annual basis of all monies received from the Fund. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.
6. The requirement for a six months informal accounting on the part of the principal investigator is waived.
7. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

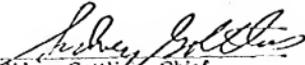
47-77

8. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

9. It is agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

 A  
TSS/Chemical Division

APPROVED:

  
Sidney Gottlieb, Chief,  
TSS/Chemical Division

APPROVED FOR  
OBLIGATION OF FUNDS:

 A  
Research Director

Attachment:  
Proposal & Budget

Distribution:  
Original Only - TSS/CD

(Date) June 11, 1976

PROPOSAL

47 - 77

It is proposed to continue the work at Emory University which has been conducted during the last two years by Dr. Carl C. Pfeiffer under the nominal title, "The Pharmacological Screening and Evaluation of Chemical Compounds Having Central Nervous System Activities."

The program at Emory is necessarily divided into several parts, some of which are supported by grants other than that of the ~~██████████~~ but which are operated as integral parts of the program. Other agencies who contribute are Emory University and the U. S. Public Health Service.

Facilities which contribute a major portion of their capacity toward the program are as follows:

1. ~~██████████~~ Extraction Laboratories at Emory University under the direction of ~~██████████~~
2. Neuropharmacology and Electrophysiology Laboratories at Emory University under the direction of ~~██████████~~

3. General Animal Pharmacology Laboratories at Emory University under the direction of Professor Carl C. Pfeiffer.
4. Behavioral Psychology Laboratories (Animal) under the direction of the Department of Psychology at Emory University with auxilliary animal testing laboratories under the direction of [REDACTED] in the Department of Pharmacology.
5. Facilities for preliminary human pharmacological testing at [REDACTED]
6. Facilities for testing in normal human volunteers at Atlanta Federal Penitentiary directed by Professor Pfeiffer.

The general program to be continued by these various facilities is the discovery and complete screening and testing of a number of materials capable of producing alterations in the human central nervous system, which are reflected as alterations

in human behavior. Such fundamental research on mechanisms of action and structure-activity relationships as is necessary to the consistent production of such materials will be undertaken as required in addition to the practical evaluation of them. Compounds from many sources will be evaluated in addition to those of special interest to the ~~██████████~~<sup>B</sup>

Several particular projects for the coming year have been discussed with the ~~██████████~~<sup>B</sup> representative and plans are being made to carry these out in addition to any others which may arise during the year. These particular projects are as follows:

1. To evaluate the effects of large doses of LSD-25 in normal human volunteers.
2. To evaluate the threshold dose levels in humans of a particular natural product to be supplied by the ~~██████████~~<sup>B</sup>. This evaluation presents difficulties of a nature which makes it a unique problem.
3. To evaluate in human beings a substance which we now believe has the ability to counteract the inebriating effects of ethyl alcohol.

16: Confidential  
by authority of: 187475  
date: June 1977

47-77

E2 IMPDET; CL BY 187475 B

PROPOSED BUDGET 1956-1957

Grant to Emory University, Dept. of Pharmacology  
Carl C. Pfeiffer, Ph.D., M.D., Principal Investigator

June 1, 1956 - May 31, 1957

PERSONNEL:

Asst. Prof., [redacted] C	\$ 7,200	
Asst. Prof., [redacted]	6,500	
Consultant, Carl C. Pfeiffer B	3,000	
Research Asst., [redacted]	3,000	
Technician, [redacted] C	3,000	
Technician, [redacted] (1/2)	1,600	
Technician, [redacted]	3,000	
Graduate Student	2,400	
Secretary (Part)	500	
Animal Attendant, [redacted]	1,100	
2% OASB	524	
*5% Retirement	835	
total personnel	\$31,500	\$31,500

Stipends for Human Volunteers  
(Atlanta Federal Penitentiary) \$ 2,000 \$ 2,000

Consumable Supplies	\$ 2,094	
Equipment	6,000	
Travel	1,500	
	\$ 9,594	\$9,594

10% University Overhead	\$ 4,309	4,309
-------------------------	----------	-------

TOTAL BUDGET \$47,403

Downloaded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

500  
47-78

EMORY UNIVERSITY

B

Grant

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

Summary of Receipts and Expenditures for the Period  
June 1, 1955 through May 31, 1956

Unexpended balance May 31, 1955	\$ 161.85
Received from <del>██████████</del> <sup>B</sup> this period	51,803.10
Total funds available this period	\$ 51,964.95

Direct Expenditures:\*

Personnel	\$ 21,538.94	
Human subjects	106.00	
Travel	1,651.45	
Equipment	18,869.43	
Expendable Supplies	5,439.65	
Total Direct Expenditures	\$ 47,605.47	
Contribution to Indirect Cost	3,982.10	
Total Expenditures	\$ 51,587.57	51,587.57
Unexpended Balance as of May 31, 1956		\$ 377.38

\* See attached schedules

Approved:

*cc Pfeiffer*

Carl C. Pfeiffer, M.D.  
Project Director

Emory University

*[Signature]*  
Kvell E. Bessent, C.P.A.  
Controller

I have examined and approved the submitted expenditures.

*[Signature]*  
SIMEY G. LIEB  
Chief

TSS/Chemical Division

Date: AUG 15 1956



47-78

B  
KENDRY UNIVERSITY

~~Department of Pharmacology~~  
Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

TRAVEL

<u>Date</u>	<u>Individual</u>	<u>Destination</u>	<u>Amount</u>
9/1/55	Dr. C. C. Pfeiffer	Milledgeville, Georgia	\$ 11.40
9/20/55	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	105.81
9/20/55	Dr. C. C. Pfeiffer	Iowa City, Iowa, Minneapolis Minn.	254.12
			61.80
9/20/55	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	96.96
9/23/55	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	51.55
9/23/55	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	
12/21/55	Dr. C. C. Pfeiffer		231.29
	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	100.91
	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, Ill.</del>	103.16
1/10/56	Dr. C. C. Pfeiffer	Chicago, Ill.	196.55
2/10/56	Dr. C. C. Pfeiffer	N.Y.C. and	98.66
3/16/56	Dr. C. C. Pfeiffer		99.16
3/28/56	Dr. C. C. Pfeiffer		73.22
5/7/56	Dr. C. C. Pfeiffer		161.86
5/24/56	<del>Dr. C. C. Pfeiffer</del>	<del>Chicago, N.Y.C., Wash., D.C.</del>	
5/31/56	Dr. C. C. Pfeiffer	Chicago, N.Y.C., Wash., D.C.	
	Total Travel		\$ 1,651.45

I have examined and approved the submitted expenditures.

*Sidney G. Liles*  
SIDNEY G. LILES

Chief

TSS/Chemical Division

Date: AUG 15 1956

47-78

B

ENDRY UNIVERSITY

Grant

Department of Pharmacology  
Dr. Carl C. Pfeiffer, Director

EXPENDABLE SUPPLIES

<u>Item</u>	<u>Amount</u>	<u>Item</u>	<u>Amount</u>
Needle valve	3.98	Bottles, stirring rods, chemicals	56.41
Chemicals, stoppers and stopcock	22.75	Animal Food	49.44
Dogs	20.00	Animal food	13.02
Tape, Jars, celuouse wipes	17.18	Drugs	12.90
Alcohol	3.20	Bottles	5.56
Staples, writing pen	2.75	Chemical determinations	60.46
Collection cartridge tubes	17.70	Chemicals, glassware	333.30
Transformers	52.51	Mice	149.89
Chemicals	16.28	Mice	18.85
Chemicals	23.04	Acid	13.28
Drugs	13.63	Tank regulator	42.13
Mice	171.26	Drug testing	15.00
Chemicals	21.89	Acetylene	5.04
Long distance telephone	6.11	Scissors & stethoscope	58.61
Mice	187.46	Pulleys	51.55
Laundry	28.13	Electrical supplies	76.72
Stationery, tape, minco paper	18.00	Glassware	27.44
Mice	214.24	Chemicals, glassware	78.02
Laundry	34.89	Plastic containers	44.99
Freight	10.52	Oxygen & cyclopropane - regulator	76.63
Chemicals	21.95	Silver plating solution	15.45
Paper, rubber bands, labels	9.60	Guinea pigs	10.30
Drugs	32.90	Chemical determinations	21.01
Alcohol	2.33	Postage	50.00
Chemicals	40.64	Photographic work	73.50
Magnifier, filter paper	13.96	Rabbits	39.14
Stirring rod	5.30	Repair typewriter	16.75
Chemicals	9.79	Batteries, thermometers, drugs	23.05
Rabbits	15.45	Chemicals	234.02
Drug testing	5.00	Syringes	5.50
Porcelain balls, chemicals	26.84	Lab. tools	3.45
Resistors	27.67	Bicycle tire	2.41
Cocaine	95.55	Chemicals	27.86
Gun	6.18	Chemical determinations	26.78
Mice	53.56	Animal food	67.77
Tubes, electronic	44.42	Laundry	50.65
Cabinet, syringes	5.41	Laundry	14.54
Laundry expenditures	27.43		

Sub-total

\$3,200.92

*Sidney Pfeiffer*  
SIDNEY PFEIFFER  
Chief

TSS/Chemical Division

Date: AUG 15 1956

47 - 78

EXPENDABLE SUPPLIES

<u>Item</u>	<u>Amount</u>	<u>Item</u>	<u>Amount</u>
Balance Forward	\$3,200.92	Long distance telephone	15.35
Chemicals, porcelain balls	28.39	Fike, flash-o-lens	17.65
Cedar shavings	10.30	Glassware	123.25
Glassware, stoppers, chemicals	104.34	Film processing	6.00
Motor, cabinet, lamp	35.31	Tensolite wire	12.41
Cocanut oil soap	12.75	Freight, postage	41.73
Animal food	67.77	Photographic work	103.50
Glass cutting discs	27.81	Film	4.50
Drugs, cellulose wipes	17.10	Tubing, stoppers	19.08
Rabbits	10.30	Cord, brass rod	12.46
Syringes	10.14	Photostat	1.20
Film processing	15.58	Drugs	3.00
Chemicals	41.68	Misc. record supplies	74.52
Mice	103.00	Plexiglass	30.16
Animal food	15.45	Capsules	30.90
Laundry	26.16	Animal food	13.02
Drill rod, bran plate	20.08	Syringes, needles	30.00
Needles	29.08	Laundry	46.06
Chemicals	42.73	Glassware, chemicals, tubing	34.46
Chemicals	14.00	Insulators, wire	12.49
Amplifiers, bulbs, meters	32.74	Bicycle tube	2.60
Chemical determinations	35.50	Chemicals	7.56
Film processing	3.00	Chemicals	22.01
Chemicals	10.15	Data recording supplies	42.00
Glassware, chemicals, tubing	380.60	Total Expendable Supplies	\$5,439.65
Guinea pigs	20.60		
Freight	1.99		
Drugs	13.28		
Motor mount pulley	3.61		
Chemicals	14.63		
Tube tester, tubes, wrenches	5.88		
Vials, chemicals, cotton	23.74		
Misc. record supplies	30.64		
Pipe flanges & rod	2.03		
Dogs	25.00		
Sponges, drugs	24.40		
Tape	6.46		
Photographic work	59.50		
Dental dam	4.02		
Tracing paper	10.61		
Film	14.99		
Book - lab. reference	13.91		
Laundry	29.66		
Chemical determinations	20.60		
Laundry	16.71		
Freight	4.39		
Animal food	23.18		
Chemicals	17.54		
Tensolite	3.28		
Animal food	48.41		

I have examined and approved the submitt expenditures.

*Sidney G. Gibbs*  
SIDNEY G. GIBBS  
Chief

Asst/Chemical Division

Date: AUG 15 1956

EMORY UNIVERSITY  
DEPARTMENT OF PHARMACOLOGY

File 47

B

47-78

STATEMENT OF EXPENDITURES FROM ██████████  
\*GRANT AS OF JANUARY 31, 1956

<u>CATEGORY</u>	<u>ALLOTMENT</u>	<u>EXPENDITURES</u>
Personnel	\$30,227.00	\$21,985.82 (Approx.)
Travel	1,500.00	914.84
Equipment	6,000.00	2,537.18
Supplement*	8,000.00	7,699.25
Supplies	2,094.00	2,573.69
Overhead	<u>3,982.10</u>	<u>2,651.52</u> (Approx.)
TOTAL	\$51,803.10	38,362.30

BALANCE as of January 31, 1956 \$13,440.80

\*Supplementary Equipment allowance for purchase of  
Beckman DK-2 spectrophotometer.

*Earl C. [Signature]*

47-78

B

## EMORY UNIVERSITY

Grant

Department of Pharmacology  
 Dr. Carl C. Pfeiffer, Director

EQUIPMENT

<u>Item</u>	<u>Amount</u>
Viso-cardette - Complete	\$ 816.27
Plane attachment, burner standards	545.90
Johnson-Kries Stereotaxic	234.88
Lathe and attachments	757.87
Stop watch and holder	22.61
2 tele-thermometer probe	159.65
DK Z Spectrophotometer	7,699.25
Additional cost - exchange of preamplifiers	10.20
Dyna-pump	37.06
Stirrer	66.95
Utility cart, vapor lamp, balance circulating system	476.89
Band saw, Bench, Blades	96.74
Time drive attachment for Spectrophotometer	298.70
Lab. Jack	36.91
Freight on equipment	62.88
Offner Electroencephalograph-8 channel	3,962.93
2 Hotpoint refrigerators - 12 cu. ft.	683.82
Typewriter	378.24
Refractometer, B & L	715.85
Kodak - K100, lens, telephoto, projector	887.56
K-100 viewer, 15 mm lens, projecto-editor splicer	103.66
Apex tape recorder	731.30
Convert 3 Tele-thermometers	83.31
<b>Total Equipment</b>	<b>\$18,869.43</b>

I have examined and approved the submitted expenditures.

*Sidley Gatliff*  
 SIDLEY GATLIFF  
 Chief  
 TSS/Chemical Division

Date AUG 15 1956

UNCLASSIFIED

CONFIDENTIAL

SECRET

(SENDER WILL CIRCLE CLASSIFICATION TOP AND BOTTOM)

ACTION TOP AND BOTTOM)

CENTRAL INTELLIGENCE AGENCY  
OFFICIAL ROUTING SLIP

47-7

31 October 1955

		INITIALS	DATE
TO			
1	Mr. [REDACTED] A [REDACTED]		11
2	TSS/CD		
3			
4			
5			
FROM		INITIALS	DATE
1	TSS/CD		
2			
3			

 APPROVAL INFORMATION SIGNATURE ACTION DIRECT REPLY RETURN COMMENT PREPARATION OF REPLY DISPATCH CONCURRENCE RECOMMENDATION FILE

Remarks: Dr. G. has seen this.

FILE 47

SECRET

CONFIDENTIAL

UNCLASSIFIED

FORM NO. 30-4  
1 NOV 53

Previous editions may be used.

U. S. GOVERNMENT PRINTING OFFICE 16-64548-8

(40)

MEMORANDUM OF AGREEMENT

The purpose of this memorandum of agreement is to set forth the mutual administrative responsibilities of the principal research investigator and the sponsor. Therefore, it is mutually agreed that,

A. The principal investigator shall submit to the sponsor, at six month intervals, an informal statement of expenditures of monies advanced for research activities. It is requested that the statement be submitted in essentially the following form:

- Personal Compensation
- (Salaries, Subject Fees)
- Equipment
- Supplies and Services
- Contingencies
- Overhead

B. It is understood that any travel expenses incurred in the furtherance of the research program will be accounted to the University in a manner consistent with its established practices and policies.

C. The principal investigator shall submit to the sponsor semi-annual reports on the technical progress of the research covered by these funds.

D. Title to any permanent equipment shall be retained by the University in lieu of higher overhead rates.

*Carl B. Pfeiffer*  
111

Date: March 21, 1956

EMORY UNIVERSITY  
EMORY UNIVERSITY, GEORGIA

47-80

Department of Pharmacology

October 5, 1955

Dr. [REDACTED] C  
Director [REDACTED] B

Dear [REDACTED] C

As one of the favored recipients of grants from the [REDACTED] B  
[REDACTED], I wish to thank you for the support of  
our basic chemical and pharmacological research program for the past  
four years. It is our hope that our close relationship with the  
interests of the [REDACTED] will continue since we ourselves are  
continuing to expand our interests in this field.

Since my last letter I have obtained an accurate quotation on the  
Model DK-2 Beckman recording spectrophotometer and the items can be  
listed as follows:

1 Model DK-2 Beckman recording spectrophotometer	\$7,175.00
1 "Time-drive" attachment for above	290.00
3/8 Georgia sales tax	233.00
TOTAL	\$7,998.00

This equipment will be of extreme value to us in our present re-  
search and is, I believe, a basic instrument for our present research  
program and will continue to be utilized in the interest of the [REDACTED] B  
[REDACTED] for many years to come in our research at Emory University.

Yours sincerely,

*Carl C. Pfeiffer, M.D.*  
Carl C. Pfeiffer, M.D.  
Professor and Chairman

CCP:ba

**WARNING NOTICE**  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

MEMORANDUM RECEIPT

47-81  
24 October 1955  
DATE

TO: [REDACTED] A

FROM: [REDACTED] TSS/CD A

SUBJECT: Checks - Transmittal of

FILE 50  
PFFIFFER  
SUBJECT

I hereby acknowledge receipt of the following: for transmittal to [REDACTED] E

Treasurers Check No. [REDACTED] on [REDACTED] in the amount of \$8,000  
for [REDACTED] dtd 18 Oct. 55 B

Check No. [REDACTED] in the amount of \$300 for [REDACTED] for  
[REDACTED] on the [REDACTED] dtd 19 Oct. 55. B

Please return [REDACTED] signed copy(ies) of this receipt

TO  
FORM NO. 34-66  
MAR 1949

SIGNATURE OF RECIPIENT

[REDACTED SIGNATURE]

DATE RECEIVED

Oct 28 1955

~~SECRET~~

11 October 1955

47 - 82

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer  
SUBJECT : MULTRA Subproject 47, Invoice #3,  
Allotment 6-2502-10-001

1. Invoice #3 is attached covering the above subproject. It is requested that payment be made as follows:

Two cashier's checks, drawn on a ~~bank~~ <sup>E</sup> payable to the ~~treasury~~, one in the amount of \$3,000.00 and the second check for \$320.00.

2. Both checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 21 October 1955.

3. This invoice represents the balance of the total amount currently authorized under Subproject 47. However, since it is anticipated that additional FI 55 funds will be obligated under this subproject, the files of Subproject 47 should remain open.

SIDNEY COTILLER  
Chief  
TSS/Chemical Division

Attachments  
Invoice & Certifications

Distributions  
Orig & 2 - Addressee  
1 - Comptroller  
1 - TSS/FASS  
2 - TSS/CD

A  
TSS/CD (10 October 1955)

~~SECRET~~

INVOICE

47-82

For services

\$3,320.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 47 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

~~SECRET~~

D

47-831

610

6-2502-10-001

- 44 -

ACCOUNTING

DATE	REVIEWS AND REFERENCES	OBLIGATIONS INCURRED	OBLIGATIONS LIQUIDATED	UNRECORDED BALANCE
6 OCT 1955	<i>additional authorization</i>	8,320.00		8,320.00
12 OCT 1955	<i>Quorum 2 (800 + 320)</i>		8,320.00	-
<i>Liquidated</i>				

47-84

26 September 1955

MEMORANDUM FOR: COMPTROLLER  
 ATTENTION : Finance Division  
 SUBJECT : XULTRA Subproject 47, Additional Authorization  
 No. 2

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the PD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$3,320.00 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$33,875.22 funds obligated during FY 56) to be charged to Allotment 6-2502-10-001.

SIDNEY GOTTLIEB  
 Chief  
 TSS/Chemical Division

APPROVED FOR  
 OBLIGATION OF FUNDS

~~XXXXXXXXXX~~ A  
 Research Director

Date:

- Distribution:
- Orig & 2 - Addressee
  - 1 - TSS/OC
  - 1 - TSS/YASB
  - 1 - TSS/SRB
  - 2 - TSS/CD

SEARCHED INDEXED  
 SERIALIZED FILED  
 SEP 27 1955  
 FBI - NEW YORK

TSS/CD (26 September 1955)

A

~~XXXXXXXXXX~~



5 October 1955

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA Subproject 47, Additional Authorization

1. Dr. Carl Pfeiffer, Professor of Pharmacology, Emory University Medical School, is currently engaged in the study of drugs affecting the central nervous system. In addition, Dr. Pfeiffer also conducts a screening and evaluation program of materials of pharmacological interest to TSS/CD.

2. As a result of exhaustive conversations between TSS/CD and Dr. Pfeiffer, it was felt that the addition of a Beckman DK-2 Ratio Recording Spectrophotometer to his present facilities would expedite the program and contribute materially to the obtainment of much needed data. For a more detailed application of the instrument, see the attached proposal.

B 3. The estimated cost of this instrument is \$8,000.00. The ~~estimated cost of this instrument is \$8,000.00.~~ service charge of four percent (\$320.00) must be added, making the total figure \$8,320.00. Charges should be made against Allotment ~~\_\_\_\_\_~~ H

4. In accordance with the Memorandum of Understanding with Dr. Pfeiffer, the University shall retain title to any permanent equipment. This is felt to be fully justified in view of the importance of the program in which Dr. Pfeiffer is engaged on our behalf. Purchase of this instrument will materially increase the production of the program. Additionally, in view of the manner in which these grants-in-aid are handled, security considerations make it undesirable to attempt to provide the equipment on a loan basis or otherwise retain title to it.

B 5. The ~~\_\_\_\_\_~~ has made arrangements for the return of unexpended monies to the Agency upon completion of the program. This agreement is maintained in the records of the Fund.

Downgraded to: CONFIDENTIAL

by authority of: 187475

date: June 1977

EP IMPDET: CL BY 187475

6. The present program with Dr. Pfeiffer extends to 30 June 1956. It is anticipated that TSS/CD will desire to continue utilizing the services of Dr. Pfeiffer for an indefinite period beyond that date, by giving further grants for research activities. Prior to actually turning the funds for the spectrophotometer over to Dr. Pfeiffer, TSS/CD (through the [redacted]) will obtain a statement from him to the effect that he is favorable to a continuing relationship with the [redacted].

7. Dr. Pfeiffer holds a TOP SECRET approval for work under Project MOUTRA.

A

[redacted]  
Chief, TSS/Chemical Division

APPROVED:

A

[redacted]  
Research Director

Date: Oct. 6 - 1955

Distribution:  
Original Only -- TSS/CD

A  
TSS/CD: [redacted] (26 September 1955)

Downgraded to: CONFIDENTIAL

by authority of: 187475

date: June 1977

EP IMPDET: CL BY 187475

TOP SECRET



47-88

NO.

221

6-3500-10-001

## MENTENT

DATE	REMARKS AND REFERENCES	OBIGATIONS INCURRED	OPERATIONS INCURRED	UNASSIGNED BALANCE
11 AUG 1955	authorization #2, Lic. 47	30,555.22		30,555.22
10 SEP 1955	Invoice # 59, 971.22		3,555.22	-
8 OCT 1955	Additional authorization #2	<del>8,500.00</del>		<del>8,500.00</del>

~~Liquidated~~



RECEIPT

47-89

I hereby acknowledge receipt of the following checks:

Treasurers check	in the amount of \$29,803.10,	> 47
Treasurers check	in the amount of \$1,168.12,	>
Treasurers check	in the amount of \$23,033.34,	> 46
Treasurers check	in the amount of \$917.34,	>

all (four) checks drawn on the ~~\_\_\_\_\_~~ dated 27 September 1955, and payable to the ~~\_\_\_\_\_~~ E  
B

~~\_\_\_\_\_~~

Date: Oct. 6, 1955

19 September 1955

47-89

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : KEULTRA Subproject 47, Invoice #2  
Allotment 5-2502-10-001 & 6-2502-10-001

1. Invoice #2 is attached covering the above subproject. This is a final invoice. It is requested that payment be made as follows:

Two cashier's checks drawn on a ~~bank~~ bank, payable to the ~~Government~~ Government, one in the amount of \$29,803.10 and the second for \$1,168.12.

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 30 September 1955.

3. The two invoices covering this subproject aggregate \$45,555.22, and make use of the balance of the FY 55 funds, plus the FY 56 funds obligated to date under this subproject. Since it is expected that additional FY 56 funds will be obligated under this subproject, the files on this project should not be closed.

IDENTIFY THAT FUNDS ARE AVAILABLE

ACCOUNT NUMBER  
FUND NUMBER

5-2502-10-001 416-10  
6-2502-10-001 4325522

SIDNEY GOTTLES  
Chief  
TSS/Chemical Division

ATTACHMENTS

Invoice & Certifications

Distributions

Orig & 2 - Addressee  
1 - Comptroller

CHECK #2000 IN THE AMOUNT OF \$29,803.10 RECEIVED 5/23/55

CHECK #2002 IN THE AMOUNT OF \$1,168.12 RECEIVED 5/23/55

TSS/CO (13 September 1955)

A

A

47-90

B

## Emory University

Grant

Director: Dr. Carl C. Pfeiffer

Report of Receipts and Expenditures for the Period  
June 1, 1954 - May 31, 1955Receipts

\$24,035.00

Direct Expenditures:\*

Personnel	\$11,392.36
Travel	309.56
Equipment	8,971.21
Expendable Supplies	1,029.73
Total Direct Expenditures	\$21,702.86

Contribution to Indirect Cost (10% of Direct Expenditures)	2,170.29
Total Expenditures	\$23,873.15

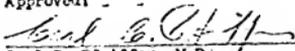
23,873.15

Unexpended Balance May 31, 1955

\$ 161.85

\*See attached schedules

Approved:

  
 Carl C. Pfeiffer, M.D.,  
 Project Director

Emory University

  
 Lowell E. Bossent, C. P. A.,  
 Controller

Approved:

  
 Chief, TSS/Chemical Division

Date:

May 31, 1955

47 - 90

B

Esory University

~~\_\_\_\_\_ Grant~~

June 1, 1954 - May 31, 1955

PERSONNEL

<u>Employee</u>	<u>Position</u>	<u>Amount</u>
	Student Assistant	\$ 400.00
	Instructor	4,583.26
	Assistant Professor	5,958.26
	Student Assistant	240.00
		<u>11,181.52</u>
		210.84
Social Security		
	TOTAL	<u>\$ 11,392.36</u>

47-90

Emory University

B

Grant

June 1, 1954 - May 31, 1955

TRAVEL

<u>Date</u>	<u>Individual</u>	<u>Destination</u>	<u>Amount</u>
9/21/54	<del>████████████████████</del>	<del>████████████████████</del>	\$ 80.00
9/21/54	<del>████████████████████</del>	<del>████████████████████</del>	40.00
9/21/54	<del>████████████████████</del>	<del>████████████████████</del>	80.00
5/10/55	Dr. C. C. Pfeiffer	Chicago, Ill. and Cincinnati, Ohio	<u>109.56</u>
		TOTAL	<u>\$ 309.56</u>

47-90

## Eory University

B

Grant

June 1, 1954 - May 31, 1955

EQUIPMENT

<u>Item</u>	<u>Amount</u>
Electrical Materials	\$ 76.96
Wardrobe cabinets	171.50
Wall cases	306.94
Desk	125.27
File cabinets	127.03
Burner tips, glass blower	7.99
Freight	2.22
Fume hood and Distillation hood	1,322.59
Chairs and trays	279.94
Hydrostatic Calculator	654.85
Balance	39.90
Typewriter	190.75
Burner tips	2.58
Labolux Microscope	641.18
Waste baskets	3.94
Duzor lamps	58.78
Glass blower shaper	2.58
Flashlight	3.89
Duzor lamps	32.93
Screwplates, wrenches, pliers, drills	90.27
Supports, large	13.39
Gas machine, bags, headstraps	220.32
Regulating transformer	30.90
Wrench	2.82
Reducing Adapter	5.30
Duzor Lamp	16.46
Pipe lines for air compressor	216.84
Support, large	2.68
Stopwatch holders	8.14
Tizers	28.06
Pump, Centrifugal	42.75
(Credit on adapter	(.09)
Clamps and casters	16.49
Foam rubber mattress	34.98
2 Pumps, centrifugal	85.49
Tycoes blood pressure outfits	78.23
G. E. fans and clocks	84.57
Oven, centrifuge	1,021.25
Generators, power supply, preamplifiers	1,106.37
	<u>\$ 7,197.02</u>

EQUIPMENT

Balance Brought Forward		\$ 7,197.09
Shelves		70.00
Microwave Kit		327.56
Sparginares Monotors		154.44
4 Wheel cylinder truck		154.44
Pliers, wrenches		41.20
Steel cabinets		40.30
Steel cabinets		132.87
Autoptical preformer 500 projector, case & screen		192.84
Welch pump, Hydrogenation apparatus, stirring apparatus		615.43
Receptacle		6.44
Vacuum tygon tubing		39.66
Shelves		10.00
Chairs		127.99
Jackson Supports		13.32
Total		\$ <u>8,971.21</u>

B

Emory University

Grant

June 1, 1954 - May 31, 1955

EXPENDABLE SUPPLIES

<u>Item</u>	<u>Amount</u>
	\$ 32.96
Chemicals	28.81
Chemicals	7.72
Chemicals	5.15
Pipe, connections	1.85
Freight	11.22
Chemicals	46.35
Pressure transducer	12.85
12 small clamps	6.06
8 Hargrove clamps	10.97
Chemicals	4.70
Liquid resin adhesive	3.25
Long distance telephone	8.24
Chemicals	40.15
Tubes, batteries, gauge	85.18
Cake cover, tray, utility containers	3.25
Long distance telephone	4.18
Long distance telephone	7.21
Rabbits	9.84
Advertising in "Science"	2.48
Long distance telephone	5.92
Book - "Antimetabolites & Cancer" - Rhoads	312.07
Chemicals, glassware, syringes	3.51
Photographic Work	24.93
Scapel blades, cotton sponges	5.27
Chemicals	50.51
Kymograph Paper	29.02
Books, Reference	93.37
Chemicals	9.59
Batteries	12.11
Emory paper, tubing	151.01
Cylinders	
Total	\$ <u>1,029.73</u>

## ROUTING AND RECORD SHEET

47-91

INSTRUCTIONS: Officer designations should be used in the "TO" column. Under each comment a line should be drawn across sheet and each comment numbered to correspond with the number in the "TO" column. Each officer should initial (check mark insufficient) before further routing. This Routing and Record Sheet should be returned to Registry.

FROM:				TELEPHONE	NO.	
TSS/CD					Ultra 47	
					DATE:	
TO	ROOM NO.	DATE		OFFICER'S INITIALS	TELEPHONE	COMMENTS
1.		REC'D	FW'D			
cd/tss/CD			8/11		A	
2.			Aug 11 1977		A	
3.						
TSS/CD						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

~~SECRET~~

47-91

8 August 1955

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

SUBJECT : MXULRA, Subproject 47, Additional  
Authorization No. 21

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$30,555.22 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$30,555.22 funds obligated during FY 56) to be charged to Allotment 6-2502-10-001.

SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division

APPROVED FOR  
OBLIGATION OF FUNDS:

A

A

Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE NO. 234  
CHARGE TO ALLOTMENT NO. 6-2502-10-001  
11 AUG 1955  
AUTHORIZING OFFICER

Date:

Distribution:

Orig & 2 - Addressee

1 - TSS/OC

1 - TSS/PASB

1 - TSS/SRB

2 - TSS/CD

A

CYR: A

~~SECRET~~

~~SECRET~~

28 July 1955

47-92

MEMORANDUM FOR: THE RECORD

SUBJECT: Addendum to Subproject 47

1. The purpose of this addendum is to set forth the mutual administrative responsibilities of the contractor and sponsor.
2. The above subproject represent the research program of Dr. Carl Pfeiffer located at Emory University covering the period of 1 July 1955 through 30 June 1956.
3. The principal investigator shall submit to the sponsor, at six month intervals, an informal statement of expenditures of monies advanced for research activities. It is requested that the statement be submitted in essentially the following form:
  - a. Personal Compensation (Salaries, Subject Fees),
  - b. Equipment,
  - c. Supplies and Services,
  - d. Travel,
  - e. Overhead,
  - f. Contingencies.

Also, the ~~contractor~~<sup>B</sup> has requested Emory University to submit to them a summary accounting of monies received from the Fund. They also requested the return of any unexpended funds received under a grant from the Fund.

4. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.
5. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the University shall conform with the accepted practices of that Institution.
6. It was agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

*Sidney Gottlieb*  
SIDNEY GOTTLIEB  
Chief

TSS/Cheical Division

APPROVED:

A

~~SECRET~~  
Chief, TSS

Distribution:  
Orig. & 1 - TSS/CD

~~SECRET~~

47-93  
#47

CERTIFICATE

OR

I hereby certify receipt of Cashier's Check No. UN11739  
in the amount of \$584.00, drawn on the [REDACTED] E  
[REDACTED] payable to the [REDACTED] B  
[REDACTED]

[REDACTED SIGNATURE]

A

(Signature)

Date: April 14, 1955

MEMORANDUM RECEIPT

TO:

FROM:

SUBJECT:

DATE

Invoice #1  
Subject #1

I hereby acknowledge receipt of the following:

E

CHECKED OFF IN THE AMOUNT OF \$584.00  
RECEIVED.

Please return signed copy(ies) of this receipt

To  
FORM NO. 38-88  
MAR 1949

[REDACTED SIGNATURE]

A

SIGNATURE OF RECIPIENT  
APR 14 1955  
DATE RECEIVED

# 47-94

CERTIFICATE

I hereby certify receipt of Cashier's Check No. MN191740, in the amount of \$14,000.00, drawn on the [redacted] payable to the [redacted] B

[redacted] A

Date: April 14, 1955

MEMORANDUM RECEIPT

APR 13 1955  
DATE

TO:  
FROM:  
SUBJECT:

Sumner #1  
Subject # 89  
(orig. this club)

I hereby acknowledge receipt of the following:

[redacted] E

CHECK # 191740 IN THE AMOUNT OF \$14000 RECEIVED.

[redacted] A

Please return signed copy(ies) of this receipt

FORM NO. 30-51  
MAY 1953

RECEIVED  
DATE

~~SECRET~~

47-95

1 April 1955

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : Project NEULTRA, Subproject No. 47,  
Invoice #1, Allotment 5-2502-10-001.

Invoice No. 1 for Subproject 47 of Project NEULTRA is attached. Other invoices will follow later. It is requested that payment be made by two cashiers checks, one in the amount of \$14,000.00, and one for \$534.00, payable to the ~~Director, Chemical Division~~. The checks should be sent to Chief, TSS/CD through TSS/Budget Officer by Wednesday, 6 April 1955.

SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division

Attachments  
Invoice & Certifications

- Distributions
- Orig & 2 - Addressee
  - 1 - Comptroller
  - ✓ 1 - TSS/PASS
  - 2 - TSS/CD

CHECK # ~~11712~~ IN THE AMOUNT OF \$442  
RECEIVED. APR 13 1955

CHECK # ~~11711~~ IN THE AMOUNT OF \$534.00  
RECEIVED.

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBIGATION REFERENCE No. 187

CHARGE TO ALLOTMENT No. 5-2502-10-001

4 APR ENTO  
AUTHORIZING OFFICER

~~SECRET~~

~~SECRET~~

47 - 95

INVOICE NO. 1

31 March 1955

For services.....\$14,584.00

~~REDACTED~~ B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 1 applying to Subproject 47 of Project MKULRA, that performance was satisfactory, that the services were accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts are on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Date: \_\_\_\_\_

SIDNEY GOTTLIEB  
Chief, TSS/CD

(2) It is hereby certified that this invoice applies to Subproject 47 under Project MKULRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Date: \_\_\_\_\_

~~REDACTED~~ A  
Research Director

~~SECRET~~

~~SECRET~~

47 - 96

23 March 1955

MEMORANDUM FOR: CONTROLLER  
 ATTENTION : Finance Division  
 SUBJECT : Project KXULTRA, Subproject 47

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 47 has been approved, and \$15,000.00 of the over-all Project KXULTRA funds has been obligated to cover the subproject's expenses, and should be charged to Allotment 5-2502-10-001.

SIDNEY COTTIER  
 Chief  
 TSS/Chemical Division

APPROVED FOR OBLIGATION  
 OF FUNDS:

~~REMARKS~~

*for* Research Director  
 Date: MAR 24 1955

Distributions:

Orig & 2 - \$15,000.00  
 1 - TSS/FASB  
 1 - TSS/SRB  
 2 - TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE

COLLECTION REFERENCE NO.

CHANGE TO ALLOTMENT NO.

171  
 5-2502-10-001  
 1 APR 1955

~~SECRET~~

ALL MONITORING OFFICER

Downgraded to: CONFIDENTIAL  
by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475  
SCOPE OF PROJECT

~~SECRET~~

47-97

B You will find enclosed a proposed budget for 1955-56 beginning with July 1, 1955. With this proposed budget, we would be able to do all of the pharmacological testing required by the ~~Government~~ including the testing of new compounds made at this University and other compounds which would be submitted by you, ~~and~~ ~~and~~ ~~and~~ C This would also include screening compounds of medicinal origin supplied by the Australian scientists and by ~~the~~ A When the pharmacological technician was not busy we would plan to have her continue a careful study in mice and rats of CNS stimulants which might antidote the acute effects of alcohol.

The travel budget may appear rather large but this is necessary in order to continue our testing program in man at the ~~University~~ B

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

Downgraded to: ~~CONFIDENTIAL~~

by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475

~~DRAFT~~  
23 March 1955

47-98

MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 47

1. The purpose of this project is to provide funds for the study of drugs affecting the central nervous system, and to screen and evaluate pharmacologically any other compounds which may be of interest to TSS/Chemical Division.

2. The attached proposal indicates the extent of the investigations that will be carried out in these facilities available at Emory University and provides for close cooperation with the work at ~~██████████~~ B

B 3. The funds for this project will be transferred using the ~~██████████~~, as cut-out in the usual manner.

4. The cost of this program for a period of one year beginning 1 July 1955 will be \$43,803.10 to which must be added four percent (4%) fee to the ~~██████████~~ making the total amount \$45,555.22. At the present time \$15,000.00 is being committed, \$14,400 for the project and \$600.00 fee to the ~~██████████~~ B  
The balance of the total will be committed at a later date.

5. Both ~~██████████~~ and Dr. Pfeiffer are cleared TOP SECRET by the Agency and are aware of the sensitive nature of this work.

~~██████████~~ A  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

APPROVED:

A ~~██████████~~  
for Research Director

~~██████████~~ A  
Chief, TSS/Chemical Division

Date: 24 Mar 55

Attachment:  
Proposal

APPROVED FOR ADDITIONAL  
APPROPRIATION OF \$30,555.22:

Original Only

Downgraded to: ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977

~~██████████~~ A  
Research Director

E2 IMPDET; CL BY 187475

Date: AUG 9 1955

Approved for: [Signature]  
by authority of: 187475  
date: June 1977

Approved for: [Signature]

47-98

B PROPOSED BUDGET 1955-1956  
to Emory University, Dept. of Pharmacology  
Carl C. Pfeiffer, Ph.D., M.D., Principal Investigator

Salaries:			
1 Research Tech.	\$7,000	+ 2%, + 5%	
2 Grad. Students	3,600 **		
Research Tech.	4,800 **		
	5,500		
Research Tech.	3,000 *		
1 Grad. Student	2,400 **		
Consultant (Carl C. Pfeiffer)	2,400 **		
Part-time secretary	400 *		
Animal man, 50% time	1,200 *		
	\$30,300		\$30,300.00
		2% OASB	)
		5% Retirement	) 2,121.00
			\$32,421.00
Consumable Supplies & equipment	\$6,000		
Travel	1,400		7,400.00
	\$7,400		\$ 39,821.00
		10% University Overhead	3,982.10
		TOTAL	\$ 43,803.10

\* At present paid from departmental funds  
\*\* New items

RECEIVED

Approved for: [Signature]  
by authority of: 187475  
date: June 1977  
E2 187475; CL BY 187475

Authority of: 187475

Date: June 1977

21 PDEF; CL BY 187475

~~SECRET~~

47-98

BARE MINIMUM BUDGET WITH NO EXPANSION OF PROGRAM

Salaries:			
	<del>██████████</del>	\$7,000	
	Research Tech.	3,600**	
	<del>██████████</del>	5,500	
	Research Tech.	3,000 *	
	Secretary (part-time)	400 *	
	Animal man (50% time)	1,200 *	
		\$20,700.00	\$20,700.00
			2% OASB )
			5% Retirement) 1,119.00
			\$22,119.00
Consumable Supplies & equipment	\$6,000		
Travel	1,400		7,400.00
	\$7,400		\$29,519.00
			10% University
			Overhead 2,954.90
			TOTAL \$32,503.90

\* At present paid from departmental funds  
\*\* New items

Declassified to: CONFIDENTIAL  
Authority of: 187475  
Date: June 1977  
21 PDEF; CL BY 187475

~~SECRET~~

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

~~CONFIDENTIAL~~  
EMORY UNIVERSITY  
EMORY UNIVERSITY, GEORGIA

FILE # 47-99

47-99

March 4, 1955

DIVISION OF BASIC SCIENCES  
IN THE HEALTH SERVICES  
Department of Pharmacology

Dr. Sidney Gottlieb  
Scientific Representative

Dear Dr. Gottlieb:

Enclosed you will find two copies of our report on the ~~XXXXXX~~ compound which includes a request for more of Compound No. ERB 4-99II. We are sending this report at this time so that you can have more of this compound made to continue our pharmacological testing.

In addition, you will find enclosed a proposed budget for 1955-56 beginning with July 1, 1955. With this proposed budget, we would be able to do all of the pharmacological testing required by the ~~XXXXXX~~, including the testing of new compounds made at this University and other compounds which would be submitted by you, ~~XXXXXX~~ and ~~XXXXXX~~. This would also include screening compounds of medicinal origin supplied by the ~~XXXXXX~~ scientists and ~~XXXXXX~~. When the pharmacological technician was not busy we would plan to have her continue a careful study in mice and rats of CNS stimulants which might antidote the acute effects of alcohol.

You will note that we also have attached a bare minimum budget which would provide for the expenditures now made by the department for the ~~XXXXXX~~. In order to get the laboratory work started we have had ~~XXXXXX~~ engaged full-time at departmental expense on ~~XXXXXX~~ problems as well as a secretary part-time and an animal man half-time. If the full expanded program is not required by the ~~XXXXXX~~, then we would drop back to the bare minimum budget as outlined on the attached sheet.

During ~~XXXXXX~~ visit we outlined our progress in several portions of our research program and if a formal report is required immediately by the ~~XXXXXX~~ this can be provided. We will of course have a detailed report at the end of June covering progress during the first year of support of this research program.

The travel budget may appear rather large but this is necessary in order to continue our testing program in man at the ~~XXXXXX~~.

Yours sincerely,

*Carl C. Pfeiffer*  
Carl C. Pfeiffer, M.D.

CCP:ba  
Enclosures  
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by authority of: 187475  
date: June 1977  
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TRA Subproject 47

Date of Original Authorization	Period Covered	Time Extended to	Allotment Number	Amount of Obligation
24 Mar 55	July 56		5-2502-10-001	15,000.00

Additional Authorizations	Period Covered	Time Extended to	Allotment Number	Amount of Obligation
8 Aug 1955			6-2502-10-001	30,555.22
6 Oct 55	30 Jun 56		6-2502-10-001	8,320.00
7 June 56			6-2502-10-001	49,229.12
24 May 57	1 yr	6-2502-10-001	7-2502-10-001	50,327.38
6-19 June 58	1 yr	8-2502-10-001	8-2502-10-001	50,130.08
10 June 59	1 yr	9-2502-75-902	9-2502-75-902	50,313.12
#8 20 May 1960	1 yr	0525-1009-4902	0525-1009-4902	5,477.92

Invoice No.	Date	Amount	Balance
1	4/1/55	17,584.00	416.00
2	9/19/55	30,971.22	0
3	10/4/55	8,320.00	0
4	6/5/56	16,433.04	32,866.08
5	10/5/56	32,866.08	0
6	5 Aug 57	16,285.94	33,571.90
7	22 Apr 1958	33,571.90	0
Auth #6	19 June 1958		50,130.08
8	30 July 1958	16,976.02	33,430.06
9	23 June 59	33,420.06	
Auth #7	June 59	50,313.12	50,313.12
10	24 Aug 59	50,313.12	0
Auth #8	20 May 1960		5,477.92
11	29 June 1960	5,477.92	0