

Description	Data   1954		igations	Expenditures	<b>Balance</b>		2 (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
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MEMORANDUM FOR: THE RECORD

SUBJECT

Schedule of Grant Payments MKULTRA 22

November 1961 to November 1962

Due Nov 1, 1961 Due Feb 1, 1961 Due May 1, 1961 Due Aug 1, 1961

\$3,852.00 3,852.00 3,853.00 3,853.00

TOTAL GRANT \$15,410.00

7 October 1959 23

MEMORANDUM FOR: THE RECORD

SUBJECT : Schedule of Grant Payments MAULTRA 22

November 1959 to October 1960.

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Due	Nov 1, 1959 2891.75	
Due	Feb 1, 1960 2891.75	
Due	May 1, 1960 2891.75	
Due	Aug 1, 1960 2891.75	•
		١.

TOTAL GRANT

11,567.00

Project MKULTL., Subproject 22

Date Initiated: 28 January 1954

Date Expires: Continuing

Funds-current year: \$11,567.00

Purpose: Isolation and investigation of the active principals of certain

botanicals of interest.

Status: Final fractions are being studied on the Rivea corymbosa separation, considerable progress has been made on the separation of the active constituents of Amanita muscaria, and a start has been made on the separation of Rhynchosia phasoloides

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	NUMBER DATE	DESCRIPTION	×.	+					See at	attached	certi	certification		
1	T.	Invoice #11				-								Ī
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										TOTAL	EXPENSES		: 7,705.	00
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-To:--



A,B,C, &

From:

pr

principal investigator

Re:

Final financial accounting for renewal of research grant

entitled

Period of grant:

November 1, 1962 - July 15, 1963

for pro	ofessiona (Table	l services	rendered	in researc	h		\$	<b>+500.</b>
ravel	•	by auto ar		to C			and	!115.
iving	expenses	AN				, <b></b>		1950.
abora	tory fee	at William				:		140.
				Total	funds	Total expenditu		7705. 7705.

This is a correct accounting of funds received by me as grantee from as grantor..

I have examined and approved the submitted expenditures.

Chief

TSD/T

SUBMITTED BY	MANATAN Sub 22		01	11 Hovember 1961 31 October 1962		S 3. WOUGHER DATE DESCRIPTION AMOUNT	31 Oct.		836		15,410.00	- 1	ANOMA ANOMA TERMINAL CANTENANT CANTE	CASH ON HAND END OF PERIOD	05-b10.00	APPROVED If certify that the expenditures	MENT NO. DATE SIGNATURE OF APPROVING OFFICER on any attachments were incurred for official pursuant no poses of a confidential neture, that payment or credit therefor has not been received, and that the accounting is true and correct.	CERTIFIED	DATE	AX 0357	SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION	REVIEWED BY	34.39 40.42 43 45.46 A	CODE U PER ADVANCE CA LEDGER CET. NO. CALLEDGER CET. HO. CALLEDGER			TOTALS
_	A ACCOUNTING BY INDIVIDUAL	1		Š	RECEIPTS	1. CASH ON HAND BEGINNING OF PERIOD	-a	2. RECEIPT DATE DESCRIPTION	11 Roy Maithe Advance	Tamoles					TOTAL TO ACCOUNT FOR		NO.	DATE SIGNATURE OF AUTHORIZING OFFICER		A8/08/	SPACE		34. 39 STATION	CODE FROP NO.			

X 22,8

office of research administration

May 1, 1963

B.C

Director

Deam

Your check for \$2,575.00, representing the third quarterly payment for the research work, was received today.

Thank you for taking care of this matter for us.

Very truly yours,

Incorporated

Assistant Research Administrator

gg. 9 =

A

22

11

\$7,705.00

22 April 1963

32.0010 A,3

My. 14, 1962

Dear attached are two copies of accounting on the grant funds at the appears to be in order. If there are any questions just let me know.

Cordially

Report of Expenditures
November 11, 1961 to October 31, 1962

Grantor:
Grantee:
Fund:
8-0009-76

22.00 AB, C,

Mov. 14, 1962

Income:

\$7,705.00

## Expenditures:

Salaries and Wages	\$1,905.00
Travel	2,252.99
Equipment	1,206.34
Supplies	エラとししゃンギ
Other Expenses:	*
Telegraph service 9.27	
Telephone 169.06	
Miscellaneous 87.06	265.39
Overhead @ .1376 of direct costs	1,053.63

7,705.00

-0-

Balance

I certify that the above statement of account is correct to the best of my knowledge.

Business Manager

I have examined and approved the submitted expenditures.

TSD/Biological Branch

32,12

6 August 1962 A, B, C

MEMORANDUM FOR THE RECORD

SUBJECT

: Extension of Grant for

Authorization was given this date to

extending

grant time until 1 August 1963

Chief TSD/Biological Research

26 March 1962

22.13 A,B,C

MEMORANDUM FOR THE RECORD

SUBJECT

Support of Research on

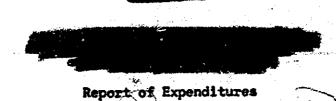


- This date discussed in detail the status of our research on the physiologically active principles of the mushroom the principal investigator on this project has made outstanding progress in his laboratories in progressed to the point where it is important to engage in more detailed phases.
- In discussing the projected research, that he was unable to engage in certain critical phases due to lack of contact with certain types of apparatus. He was of the opinion that it was most important to bring into the research picture an outstanding research worker who was knowledgeable in the field of drugs natural products.
- discussions Following consultation with and myself. were held between the consensus that an sawork could best be undertaken in the laboratories of was in complete agreement with this since it would permit him to devote full time to his research and at the same time, obtain much needed information on researches first hand.
- pointed out, however, that he would be unable to carry out such a program without additional support. He stated that he had been in correspondence with had received several cordial invitations to work in laboratories. pointed out that his expenses would be in excess of \$10,000, owing to the fact that he would have his family to transport and take care of. He was advised that the grant could not undertake support to this extent, but that it would be possible to use about 1 of the existing grant to reimburse him for his professional services, transportation, and a nortion of his living expenses while in residence at He was informed that he, personally, would have to make his own arrangements about the additional funds required. able to him and that he would take the necessary steps.

22/1

5. Arrangements were made with whereby; of the grant would be withheld from and given directly in support of researches at this was concurred in by Chief, TSD,

Chief TSD/Biological Research BUSINESS OFFICE



November 1, 1960 to November 10, 1961

Fe #12 22,18

B, C

Grantors
Grantee:
Fund: 6795-76

Principal Investigator

10-

Incomes

\$9,300.00

### Expenditures:

Salaries & Wages (Incl. F	ellowships)	<b>\$3,850.00</b>
Travel	•	1,107.10
Equipment		1,150.65
Supplies		- 1,684.99
Publication and preparati	ion of thesis	148.10
Other expenses:	<b>6</b> .01	

Telephone 130.25
Miscellaneous 9.85

Total Expenditures.

9,300,00

Balance

-0-

I certify that the above statement of account is correct to the best of my knowledge.

Business Manager

1/17/4

November 8, 1961

B,E,

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check No. I drawn on the dated November 2, 1961, for \$15,410.00.

Check No. drawn on the the dated November 2, 1961, for \$616,40.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly.

Enclosures: (2)

11/2 W. 362 11 04:320:31 00:011.17 CREDIT 71.80 AMOUNT CERTIFIED FOR PAYMENT OR CREDIT SIGNATURE OF CERTIFYING OFFICER 25-1790- 790x 75x 16 42640 DE 8 1 T VOUCHER NO. 7-12 62.87 OBJECT CK.HO. CLASS X REF. NO. CLASS 68-70 DUE DATE TOTALS SB-67 ALLOT, OR COST ACCT, NO. CONFIDENTIAL FUNDS POSTING VOUCHER DATE CA LEDGER YR ACCT. NO. 54-57 GENERAL 10/0 ADVANCE ACCT. NO. OBLIG. REF. NO. 200 REVIEWED BY CODE DATE 2-6 1.7 CODE Min paget no PROP. RO. DATE DESCRIPTION ALL OTHER ACCOUNTS 13-93 DESCRIPTION-ADYANCE ACCOUNTS 13-27 EXPLANATION OF ENTRY YOUCHER NO. 7-12

10.59 606 use enreteb's thirtions

DATE

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33 14 12 October 1961 NEMORANION FOR: CHIEF, FIRANCE DIVISION A,E,B YIA t TSD/Budget Officer \* MEDITRA, Subproject 22 Invoice #11 SUBJECT Allotment No. 1. Invoice No. 11 in the amount of \$16,026.40 covering the above subproject is attached. Payment should be made as follows: Cashier's check in the amount of \$15,410.00, drawn on Cashier's check in the amount of \$616.40, drawn on a Both checks should be made payable to 2. The checks should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 3 November 1961. This is a is al invoice. Revever, since it is anticipated that additional ftionavill be obligated for this project, the files should not be onot be Chief TSD/Research Branch Attachment: IN THE AMOUNT OF ST OF Invoice & Certons .cat .... Distribution: dressee Orig & 2 - Ad IN THE AMHE AMOUNT OF S.

12 October 1961

A,E,B

10.10

MEMORANDOM FOR: CHIEF, FINANCE DIVISION

AIY

TSD/Budget Officer

SUBJECT

: MULTRA, Bubproject 22 Invoice \$11 Allotment Hou

1. Invoice No. 11 in the ascent of \$16,026.40 covering the above subproject is attached. Payment should be made as follows:

Cashiar's check in the amount of \$15,410.00, drawn on

A TOTAL PROPERTY Cashier's check in the amount of \$616.40, drawn on a

- Both checks should be made psymble to

- 2. The checks should be forwarded to Chief, ToD/Research Branch, through TSD/Budget Officer, no later than 3 November 1961.
- 3. This is a final invoice. However, since it is auticipated that additional funds will be obligated for this project, the files should not be closed.

Chief TED/Research Branch

Attachment: Invoice & Certifications

Distributions Orig & 2 - Addresses

1 - TSD/FASS

2 - TSD/RB

I CERTIFY THAT FUNDS ARE AVAILABLE. 18,907 OSLIGATION REFERENCE No. DIARGE TO ALLOTHERS No.

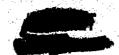
AUTHORIZING OFFICER

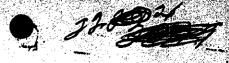
7,705.00 poses of a confidential nature, that payment or credit therefor has not been received, and that 7,705.00 : 15,410.00 I certify that the expenditures listed hereon and on any attachments were incurred for official pur-AMOUNT JCHER NO. (Pinance use only) this accounting is true and correct. MONEY ORDER See attached certification 9 .... TOTAL EXPENSES VOUCHER NO. 7-12 DESCRIPTION CHECK SIGNATURE OF PAYEE 66. 70 DUE DATE DISBURSEMENTS OBJECT CLAS & TOTALS TOTAL ACCOUNTED FOR REF. NO. 62-67 CK NO. ALLOT, OR COST ACCT, NO. CASH S. CASH ON HAND END OF PERIOD SPACE BELOW FOR EXCEUSIVE USE OF FINANCE DIVISION Bross Coffills De fran 31 October 1962 SIGNATURE OF CERTIFYING OFFICER SIGNATURE OF APPROXING OFFICER 4. REFUNDED HEREWITH 31 Oct 3961 CERTIFIED FOR PAYMENT OR CREDIT DATE GENERAL Ledger ACCT. NO PER 10D OF ACCOUNTING 3. VOUCHER DYAMCE CA APPROVED 38 Bus 22 15, \$10.00 15,410.00 L10. 11 November 1961 MESTITER 1 O APR 1963 CODE REVIEWED BY SUBMITTED BY DATE DATE DIV. PROJECT NO. 34.39 STATION CODE FROM SIGNATURE OF AUTHORIZING OFFICER DESCRIPT 50N OBLIGATION REFERENCE NO. CHARGE ALLOTMENT NO. HKITTINA Advance RECEIPTS I CERTIFY FUNDS ARE AVAILABLE DESCRIPTION - ALL OTHER ACCOUNTS 13-93 TOTAL TO ACCOUNT FOR ACCOUNTING BY INDIVIDUAL Invoice 6 11 Follow Instructions on Reverse CASH ON HAND BEGINNING OF PERIOD DESCRIPTION - ADVANCE ACCOUNTS 13.27 FOR ADVANCE 11. Boy DATE 1901 S PARED BY 2. RECEIPT NOTE DATE

22, 60 B, H

INVOICE \$16,026.40 For Services CERTIFICATIONS applying to Sub-project No. 22 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: It is hereby certified that this invoice applies to Subproject 22 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from and the extension of this authority in subsequent 1 the DCI to the memoranda. Research Director Date:

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No.		A.	154 12. V	63	9		
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Cost Account

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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27 September 1961

1 29-1/2/19

A, B

## MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

r Project MKULTRA, Subproject #22
Additional Authorization #9

Under the authority granted in the Memorandum dated

13 April 1953 from the DCI to the and the extension of
this authority in subsequent memoranda, Subproject 22 has
been approved, and \$15,028.40 of the over-all project MKULTRA
funds has been obligated to cover the subproject's expenses and
should be charged to Allotment 2125-1390-3902.

APPROVED FOR OBLIGATION OF FUNDS:

Chief.
TSD/Research Branch

A

Research Director

3732

Date:

DENDEY THAT FUNDS ARE AVAILABLE DENDEATEN EFFRENCE No. 632

CHARGE TO ALLOTHER NE

AUTHORIZING CAPICER

Distribution:

Orig & 2 Addressee

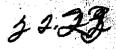
1 - TSD/OC

1 - TSD/FASS

2 - TSD/RB

A

(27 Sept. 61)



A,B,C

27 September 1961

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject #22

1. The purpose of this Subproject is to provide funds to continue the researches of Prof. On the isolation of compounds from natural products which have psychogenic properties. Prof. is concentrating his studies on isolation and identification of active materials in the fungus Amanita muscaria. Studies will be extended to active principles in Rhynchosia phaseoloides.

2. Progress in the studies of Amanita has been significant to date. It is believed that the chemical entity primarily responsible for the hallucinogenic effects of Amanita muscaria has been isolated. Because of the extremely small amount in the fungus, and due to the lack of sufficient quantities of plant material the amount isolated has been insufficient for complete structure elucidation. Effort during the coming year will be directed to obtaining adequate supplies of fresh material and the carrying out of various extraction and concentration procedures. Chemical and biological techniques will be utilized to identify and characterize the active principles which are of interest to TSD.

ill serve as cutout

for transfer of funds to the investigator. The estimated cost as outlined in the budget proposal is \$15,410.00. To this must be added the 4% service charge to the cutout, making the total cost for one (1) year not in excess of \$16,026.40. Charges should be made against allotment 2125-1390-3902.

- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the shall conform with the accepted practices of that institution.
- 6. Prof. holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.

APPROVED FOR OBLIGATION OF FUNDS:



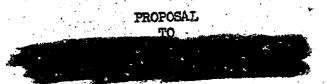
TSD/Research Branch

Research Director

Date:

Attached: Budget

Distribution: Orig. only



# RENEWAL OF A RESEARCH GRANT

Investigation of the Physiologically Active Principles of Amanita Muscaria and Other Plants of Potential Medicinal Value

Grant date: November 1, 1961 - October 31, 1962 Principal Investigator Executive Secretary President

## BUDGET PROPOSAL 1961-62

Salaries	and	wages	
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	<del>-</del>	
· · · · · · · · · · · · · · · · · · ·	Post Doctorate (12 mo.) Director's stipend (3 mo.) Student help	\$6,000 1,500 500
Travel		
Meeti	ngs and travel in connection with work	\$ 600
	September, 1962	1,000
Sample collecti	on and preparation	
1,000	pounds of Amania Muscaria at \$2.00/1b., e	tc. \$2,500
Analyses, liter	eature and special chemicals, etc	\$ 500
Equipment		
Unime Rotar	elt Melting Point Apparatus ry Molecular Still, Ozone Meter	\$ 800
g American Co		\$13,400
•	Overhead 15%	2,010 \$15,410

92-26

16 December 1960

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check drawn on the Company of dated 15 December 1900, for \$8,634.57.

Check drawn on the of dated 15 December 1960, for \$345.38.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures: (2)

H



29 November 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

William Francisco Miles Config. TSD/Budget Officer

Secretary and the second

SUBJECT

MULTRA, Subproject 22, Invoice #10 Allotment 1125-1009-1902

1. Invoice No. 10 in the amount of \$9,645.38 covering the above subproject is attached. However, due to refunds of \$665.43 from this project (as per attachment) payment should be made as follows:

> Cashier's check in the amount of \$8,634.57, drawn benk THE RESERVE WAS TRANSFER.

Cashier's check in the amount of \$345.38, drawn bank.

Both checks should be made payable to

2. The checks should be forwarded to Chief, ISD/Research Branch, through TSD/Budget Officer, no later than Wednesday, 7 December 1960.

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

> Chier TSD/Research Branch

I CERTIFY COURT TO NO

Attachment: Invoice & Certifications

Distribution:

Ottg & 2 - Addresses

>1 - TSD/FASS

AUTHORIZED GOT CER

281

1125-1370-2912

THE AMOUNT OF \$3/5.3 CHECK IN THE AMOUNT OF STATE

RECEIVED.

8897 7.70 601.0 2.51 390-3900 7.70 9.61.38 8.62.31 8.63.70 71.80 7	47.52 081.6, 83 54.57 ALLC REF. NO. GENERAL ACCT. NO. YR ACCT. NO.	DATE 2.	98.25
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# 100	Approx. CA LEDGER ENT. HO. YR ACCT. NO.	40-42 F	
#9 1707 601.0 12.1390-3901 272 9/4/38  #9 1707 601.0 1202-27-901 273 8/8  #9 1707 601.0 1202-27-901 2/4/38  #9 1707 601.0 1202-27-901 2/4/38  #9 1707 601.0 1203 2/4/38  #1 1707 601.0	601.0 20.1	CODE	PROF. NO.
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DILL 1900  DILL 1900  TOTALS 9/4/38 9  TOTALS 9/4/38 9  DATE SIGNATURE OF CERTIFYING OFFICER			
A-0809 - 258:64  UP.U. 1900  TOTALS 964.38  REVIEWED BY  OATE SIGNATURE OF CERTIFYING OFFICER			
NEVIEWED BY  TOTALS  GENTIFIED FOR PAYMENT OR CREDIT  SIGNATURE OF CENTIFYING OFFICER  SIGNATURE OF CENTIFYING OFFICER	A		
REVIEWED BY  TOTALS  9,44,538  9,44,538  9,44,538  100	DEC		
REVIEWED BY  DATE  TOTALS  964638  9666017			
REVIEWED BY  CERTIFIED FOR PAYMENT OR CREDIT  SIGNATURE OF CENTIFYING OFFICER			
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CERTIFIED FOR PAYMENT OR CREDIT  SIGNATURE OF CERTIFYING OFFICER  (10-			
		=	DATE
		-	

今



\$ 8,979.95

For Services

\$9,672,00

#### CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 10 applying to Subproject 22 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 filed 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 22 under 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:



32-29

(3) It is hereby certified that Under subproject 22 at the close of FT59 a balance of \$665.43 representing unused funds remained in subproject 22. Additional funds (FY 1125-1009-1902) have been approved for continuing subproject 22. Therefore, it is requested that \$665.43 of Invoice No. 10 be credited subproject 22 as a return of unused funds (FY 9-2502-75-902), MOR 2707.

		Chief, TSD/Research Branch
Date:		·
		Research Director
	e e	Washing an ana day





22-9

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
21 NOV	Thuitia Such 12 with 4 1 8034.57 Sour # 10 345.38  adrest Wis	9,672.0		9 (72. st
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### 15 November 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

: Project MKULTRA, Subproject #22

Additional Authorization #8

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 22 has
been approved, and \$9,672.00 of the over-all project MKULTRA
funds has been obligated to cover the subproject's expenses
and should be charged to Allotment 1125-1009-1902.

Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Date:

Distribution:

Orig. & 2 - Addressee

1 - TSD/OC

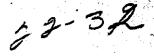
/ - TSD/FASS

2 - TSD/RB

TSD/100 (15 Nov. 160)

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### 15 November 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

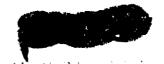
: Project MKULTRA, Subproject #22

- 1. The purpose of this Subproject is to provide funds
  to continue the research of Prof.

  isolation of compounds having psychogenic and related properties from natural products. Prof. is concentrating his studies on Rivea Corymbosa variety and Amanita

  Muscaria and has isolated some active materials which are of interest.
- materials in sufficient quantity for further research have been to a large extent overcome. Considerable renewed interest on the part of several drug companies of foreign origin in related fungi and plant materials believed to have central nervous system activity indicate that there may be chemical compounds in the natural products under study of considerable TSD interest.
- serve as cutout for transfer of funds to the investigator. The





To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$9,672.00.

Charges should be made against allotment 1125-1009-1902.

- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.
- 5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.

MV MKUnd has agreed to comply with the terms of the

Chief
TSD/Research Branch

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ROVED IGATIO Resea

APP FOR OBLN OF FUNDS:

rch Director

Date 1 18 60

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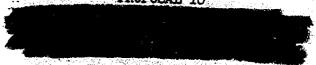
Dist: Original only

//2-5B

# BUDGET 1961

SALARIES	\$4,500
SUPPLIES	and EQUIPMENT 2,000
SPECIAL	CHEMICALS 500
SPECIAL	ANALYSES 350
TRAVEL	& COMMUNICATION 600
LIBRARY	Fig. 7. The control of the control o
OVERHEA	<u> Die Banks (Beile Banks) der Stelle der Stelle der Stelle Banks (b. 1887) der Stelle Banks (b. 1887) der Stelle Banks (b. 1887).</u>
(15% OI L	TOTAL \$9,300

PROPOSAL TO



from

for renewal of support to investigate

The Physiologically Active Principals of Amanita Muscaria and Rivea Corymbosa

Principal Investigator

President

12-34

#### PROGRESS REPORT

for

Grant Fiscal Year 1959-60

During this year work has progressed to the point where crystalline substances with physiological action have been isolated from
Rives Corymbosa and Amanita Muscaria. Rather than review all the
work in detail two papers are attached which describe the principle
aspects of the investigation during the year. The first of these
is a paper which has been submitted for publication in
regarding Rives Corymbosa. The second is an adoption of a
paper regarding Amanita Muscaria which was presented before the
August 15-25, 1960.

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Department of the state

#### A DEFINATE

R-PREATING

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the compound passesses cannot be your system against.

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The proof sure polyented, data the vite 1,2-dichlinosthese and then extracted with absolute others). The etheralic actractives fracticisted with suter. The water insoluble saterial was recrystallised to a polyent

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the fractions Division of the

The soul wave identified as the soul of R. correlates in

estion bount of size of the companies of the companies the companies of th

Consider was hydrolysed by asspecting it in a method locater columns [75 we be and 255 method [ vith emalsis. The sugar melaty cade locatified as cludge by paper throughours and further confirmed by the programment of the posts oceans.

the aginocha was recrystallized from water and mothered to a constitute withing point of 156-1680. The aginome has been assigned a solecular formally of 156-1680. Alemental analysis. Found, C., 68-154-1, 0.075, and calculated for the cost terminal mother formal sectors and calculated for the cost terminal mother group 3.675.

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I shift must be transferenced.

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Cronalyzia was row of the control of

Shert somilistered to reporte (a pas more above that the glucoside to appropriately five times at potent a temperal marpose eye was attailed as the antial stranger of old light boson above the level of the march of the contract of the con

In the final stages of the preparation of this report, the report of the such as moved in the continue the validity of the formular we are reporting thereas; it is possible that the validity of the ported by and, the the transfer from the glacoside reported have, it is not likely that the transfer from the glacoside reported have, it is not likely that the transfer identical. In all cases our analysical results are reported on crystalline, constants multipe compounds. The acetyl determinations were two or compounds whose inflared spagare indicated complete semiplation. On the basis of the epitence symiadic as date, we believe the extreme skalatom of the aglicons to be a hydrogen-stated pyrane-coptualisms which completes of the aglicons to be a hydrogen-stated pyrane-coptualisms which compared to the aglicons to be a hydrogen-stated pyrane-coptualisms which compared to the aglicons to be a hydrogen-stated pyrane-coptualisms which compared to the pyrane-coptualisms which compared to the continue to the agreement of the pyrane-coptualisms which compared to the continue of the continue of

gens as bridges where.

Primers Latrice Paul Cusous (C. Principies

OF AMETIC POSCARIA

Presented before the

August 18, 1960

The first slids (not included) gives a pycologists view of the plant meterial which is the subject of this paper. A variation of the same species has yellow coloration with white vesicles. Strictly speaking this is not a poisonous plant sor is it a toed atool as samy have called it.

The several conturies a large member of investigators from various countries have studied this beautiful fungue with different vierpoints. Chemista, payerologists, pharmacologists, pathologists, betanists, mycologists and recently, as well as seven hundred years and maateur explanate such as Albertus Magnus in 1250 and and

Practitioners in the field of psychoneurosis and extra sensory perception also have investigated and reported on the municome. As a result there is an encrous sales of literature on the subject, some of which is open to considerable doubt and some of which is open to considerable doubt and some of which is open to considerable basis in truth, dates interest in the plant to the minth century shan forme tribes are reported to have used it under the base fluguesco (or fly mistrocs) as a narrottic which gave rise to the Berserkagung of the saga period of Viking history.

It is a well established fact that the fungus is still used by certain mastern Biberian tribes for its descrite and Ballucinogenic effects. Although it was these characteristic psycopharmacologic effects in humans which spurred research on Amenita Muscaria, the charical agent (or agents) which give rise to the affects has not been reported in the literature.

An impressive enount of work has been reported by many workers on the isolation and proof of structure of muscarine from Amanita Mascaria. This alkaloid of unusual atructure and high toxicity has physiological effects in humans and test animals which bears alight resemblance to the main effects of the ingrated whole mushroom. Balts of muscarine have been isolated in pure form and its atructure

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In the own of the state to one has reported the 1 sols Lon ( ) 12-14 Telephone ( ) 1 telephone As is tradition in the state of th The second of the second several colors as the section principles the alusioto calles del car anna del como con anna c to our open record and any owner than a part of the property of the

isolating allegated the result was in 2000 contracting to out all or every allegative soutic fra Plons. by Lineary South Large Place the state of the country of the country thresta like those CHARLEST STREET, STREE conscarille. The second positional second se BY LILE Procedure to man contact and analysis of the voice are as well concentrated Lill 2 and the architecture

## SUIDS I

dere are shown references to the first four The last reference is affected at 57% to review the bory on muservine up to extremely interest and large.

## SLIDE LI

these important papers policions the large tens distributes to volved in the I solation of suscarios the the spacence extract was isolated by Schreiberg in 1860. Hovever Visit 1988 has been pure value of the base Busales, in an estemption loss to an entire in source the disorve entire Transportable Library and the Bellevolle's report at wields des for which extracts not the pure salt? SLIDE IV

These references to losses the stramts to isolate the ballucinosen's Principle of Abstite Miscarie, while anied whitel reported in a presence of Bifordain in Amenica Mappo, Pantaenium and Miscarlas. The alkalold mapping reported from A Marga was found to be identical to Buforenia. The Buforenia was not actually leolated but vas identified by carrestography. Turibercore, considerable doubt le cast Du last assertion as well as that of leathe of subsequent The sale to the sale as hell as all oad sore aprel tenesty

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Party City year of the Mark State of the Sta

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on the traction particularly the militerary shows erveral move ballicinogenic sulptimes. All vita the exceptions of Sermovero annabinol are either indulic or includes indulic a courts. For the contract of the courts of the cou

The lext deveral allos are presented brandings the separation procedures followed.

### SLITE VI

Here is described at routine prediction and experience of America Muscaria which retreses and 1 to or particle in the upply at the time. The petroleum other solutions of the fine basis fraction by extraction with dilute acid. This was followed by extraction with diffuse pass to give an additionation. The remaining fraction was of neutral character. Previous wrolling extraction and reveals the present of the process of base. A similar separation was effected on the application of the golden mushroom tare.

Overlising a solidal statistic property of the control of the remaining sushroom apparation of the charge estractives used made as costed in blide Viet from the saccommunity soluble crude extractives and other sections and the section of the section of the section of the crystalling control from the fraction which should be largely from of protein material. This product has not been destricted. Abelians shows 3, 35.45; H. The My spectra indicates no aromatic character.

#### SLIDE VIII-

A.M. (10 - The water soluble extract is indulte vita a strong fucal odor. Following the procedure used by in idelating Pollowyn, verobtained traces of a crystalline compand which was not feen identified. Its in spectrum is not skaller to pailocybn, outstants and related compounds. Faser contratography has shown the presence of Irdole arctic acid and tryptophene in this fraction.

BLIDE IR

The !

co collected about 200 lb. of America

Mascaria for our work. The fresh plants were immediately dropped into insthemal

The beautiful form

of Arasita Miscario

SLIDE XIII

RIDE ALAS W

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The Color Land Co. St. Ca. St. Ca. St. Carlotte of Colors TO A STANDARD OF THE extration Ltd Lk: 17 & d ass. 12 Teduced Life Person A STATE OF THE SOURCE STATE OF THE SOURCE

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on the value is contains indolle saterials. This fraction actionsting Viter is Dutanol, and dicease. Again, utilizcrystalling product was obtained which was sintler to ng ob Input reviews he indicating that our separation was not completely success

the section procedure shows on the previous elides was used with 200 lbs.

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COLUMN PROPERTY LEGACY VIN CHALLY FLAND TO ACCURAGE COMPANY OF THE PROPERTY OF THE PROPERTY OF STATE traccions. Schoolsey indicately complete dispersof materials activity.

action serious patential rection was experated into all ether soluble fraction E

The loss considered of electical cite was subjected to alumina column chrescond and the sola frections were obtained. These were exemined in some Cotoff Argonia of the intermed forces of pentralisation equivalent at sepont constant pared considerable difference. Apperprexis de 1922 yes concentrated in Tiend mydratic activity vas concentrated in I ... Can the contraction of the cothyl estern revealed a "normal" distribution of fatty acids.

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Libitard extracted a fraction "C" which compared DOUGHLY EN PRINCIPALITY OF BELLSE VILL BASECULE LESSEL . The Letter does were 6-10 mg to reported for Bolonie Dary B muscarine, then in about Inverser brological vests "C" compared favorab

The well-desired see that we extracted with methenol to give a frestice Distance contained only allest assessinte activity and elient L.S.D. - It's activity

The superassess readered deriber prification by chrometography.

was consided from Santiage chromatography van exhaustively fractionated with the salor product chtdied was additional crystalline serial said said said at 1 1 1 Tom The cole saterial

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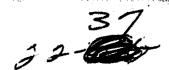
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word as a large date. From this oil may been repersied an inicentified crystallin



Stransen, a



#### Research Plans for 1960-61.

As indicated in the accompanying progress reports and papers related to the research supported by the grant, several crystalline substance have been isolated from Amanita Muscaria and Rivea Corymbosa. Future work will be organized to accomplish the following objectives:

- 2. Complete fractionation and purification of crude concentrates which exhibit physiological effects in test animals. When pure crystalline substances are isolated they will be identified or structural elucidation will be attempted.
- 3. For those substances, which exhibit significant physiological effects and which have novel structure, an attempt will be made to synthesize them and compounds with related structure in order that relative physiological activity can be determined.

it was revealed that At the recent has isolated three indelic compounds releved to Lysergic acid from Rivea Corymbosa. Also it was learned by private conversation that research teams of several of the countries leading drug firms have isolated flavanoid glycosides from Rivea Corymbosa. The structures have not been determined nor has work been published other than that by (1960). As a result of these evelopments less emphasis Virginia directed toward continuation of who as a pre-doctoral graduate this investigation. Dr student worked on this problem, is now located at and plans to complete structural elucidation of the glycoside isolated in our laboratory from Rivea Corymbosa. If it is possible to obtain a sizable quantity of Rivea Corymbosa from an area in where the plant is used for medicinal or occult purposes, then it is proposed that the sample be carefully investigated to ascertain if it contains indolic compounds or glycosides significantly different from the samples collected in areas where the plant is not utilized for its physiological action.

2238

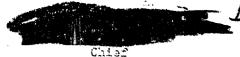
## PROPOSED EUDGET FOR FISCAL YEAR 1960-61 November 1, 1960 - October 31, 1961

Research Fellowship (a) \$200 per month	\$2400
Miscellaneous student help (a) \$1.50/hr. (400 hrs.)	600 Salur
Stipend for senior investigator (during summer)	1500
Special chemicals, natural product samples, and supplies (expendable)	500
Special analyses on research samples	350 🗸
Travel and communication in connection with project	600 -
Special books, reprints, manuscript and slide preparation and translations related to project	150 🗸
Capital Items:	
1. Ozone meter for ozonolysis apparatus which we have	100
2. Matching funds for photoelectric attachment for Model No. 80 Rudolph Polarimeter	500
<ol> <li>Components (sweep unit, coils and probe) to adapt our NMR for fine line work in connection with project</li> </ol>	1400
	\$8100
Indirect costs (15% of request)	1200 8/215
Total request in renewal of grant	\$9300

Signed/

SUSINESS OFFICE Report of Expenditures November 1, 1959 - October 31, 1960 Pana 6795-76 CLOS. TUDIUZ TECHE: \$11,067.00 Expenditures: Salaries and Wagne (including Pallowships) Supplies and Expenses Equipment Overmend Total Expenditures Balance as of October 31, 1960 I have examined and approved the submitted I certify that the shove statement of account to correct

expenditures.



mical Division

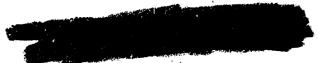
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Business Moneger



22-40

DUSINGS OFFICE



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Report of Expenditures Hovember 1, 1959 - October 31, 1960

Fund 6795-76

INCOME:

\$11,067.00

Expenditures:

Salaries and Wages (including Fellowships)
Sumplies and Expenses
Equipment
Overhead
Total Expenditures

\$5,909.00 1,840.79 1,197.00 1,454.78

10,401.57

Balance as of October 31, 1960

\$665.43

I certify that the above statement of account is correct

Business Manager

C'

FILISINESS OFFICE . Report of Expenditures November 1, 1959 - October 31, 1960

> Fund 6795-76 OLOLIUQUI.

KECCOME:

\$11,067.00

Expenditures:

Salaries and Wagos (including Fellowships) \$5,909.00 Supplies and Expenses 1,840.79 Equipment Overheed

1,197.00 10,401.57

Balance as of October 31, 1960

Total Expenditures

\$665.43

I have emplined and approved the autmitted empenditures.

I certify that the above statement of account is correct.

TSS/Chamical Division

Data 1 24 marche 196/

Department of Chemistry October 7, 1960 Assistant Treasurer Attention: Attached are two copies of an application for renewal of the grant which now supports a research project under my supervision. An account of funds for the past year will be supplied by our fiscal office at the end of the north. If there is additional information which you desire, I will be happy to try and supply it. I would like to express my appraciation for your support which is making possible the research reported in the attached application. Sincerely yours, Department of Chemistry this is the letter and B peroposal sent to ludget is the same as I sent Thout Tuesday I will send egoin my comments on the sympasium

A AUDINA SANDUM I

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TSD/Chemical Branch

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## CANAL CANAL

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22-14

27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Action on MKULTRA Audit Exceptions -- TSS/CD

SP#22

A. \$1,703.57 was used for SP#51 per memo dated 21 August 1959. R \$1,487.50 being held in the will be utilized on another project in the near future.

> Ohief TSS/Chemical Division

H

22-45

Report of Expenditures July 1 to October 31, 1959

Fund 6795-76 OLOLIUQUI:

Overdraft, June 30, 1959 Income:

\$ (185.32 - 5,365.00 \$5,179.68

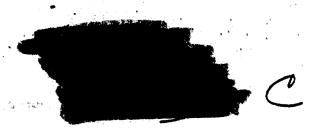
#### Expenditures

Salaries & Wages (including fellowships) \$1,960.00
Supplies and Expenses 334.24
Equipment 1,294.63
Overhead 1,590.81

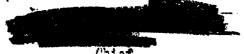
Balance, October 31, 1959

5,179.68

\_^\_



I have examined and approved the submitted expenditures.



TSS/Chemical Division

Date: 2172 1941



July 30, 1959



B

Attention

Executive Secretary-Treasurer

7

Dear

Enclosed is the financial report as prepared by our treasurer on the grant which your organization made to Dr. The report covers the full period from November, 1957, to June 30, 1959. We will be happy to furnish further itemizing should you so require.

I am happy to report that considerable progress is being made on this rather difficult project. Dr. They has two very promising doctoral candidates assigned to the problem. They are devoting a great deal of time and concentrated effort to this investigation. We are grateful to the for the fine support this organization has given us for this particular investigation.

Sincerely

C

Executive Director

cc/



Period of Report November 12, 1957 to June 30, 1959

Fund 6795-76 OLOLIUQUI:

Income



\$21,684.00

Expenditures

Salaries and Wages Supplies and Expenses Equipment

Total Expenditures

Overdraft, June 30, 1959

\$7,141.73 1,418.38 13,309.21

<u>21,869.32</u> \$185.32

I have examined and approved the submitted expenditures.

Chief

TSS/Chemical Division

Dates

7 OCT 1959

8 September 1959

TO THE PARTY OF

32-48



Gentlemen:

We are pleased to be able to transmit to you the following funds:

Check No. Idrawa on the Check

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organisation.

Yours truly,

Enclosures: (2)

**9** - 100-9

Cost Account

0-2503.75.702

Object Class Obligations Incurred Obligations Liquidated Unliquidated - Balance -Date Remarks and References 1 1959 12 029. 68 <u>12 029. 4</u> N.567.00 27 AUG

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25 August 1959

memorandum for: Chief, Finance Division

TSS/Budget Officer

t MKULTRA, Subproject 22, Invoice 49 Allotment 9-2502-75-902

L. Invoice #9 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$11, 567.00, drawn

Cashier's check in the amount of \$462.68, drawn on

Both checks should be made payable to

- 2. The checks should be forwarded to Chief, T88/Chemical Division, through TSS/Budget Officer, no later than 4 September 1959.
- And the second s 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.

Chief ... 188/Chemical Division

EMERK Invoice & Certifications REDEIVEL

IN THE AMOUNT OF BALLS

Distribution:

Orig & 2 - Address

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THE AMOUNT OF BAYER

IMAOICE

For services

\$12.029.68

#### CERTIFICATIONS

(I) It is hereby certified that this is Invoice No. 9 applying to MKULTRA Subproject 22, 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 the bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Dates

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, 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 memorands.

Research Director

Date:

### GERTIFICATION

(3) It is hereby certified that the program under subprojects 49 and 59 have been satisfactorily completed and returned unused funds. However, subproject 2Z, which is still continuing also refunded money. Therefore, it is requested that the amounts all shown below on Invoice No. 10 of subproject 51-B be credited to the subprojects as shown below.

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Chief, TSS/Chemical Division

Date:

Research Director

25 June 1959

MERCRATURE FOR COMPERCELER

ATTENTO

Firence Division

BIBLECT

Preject Million, Subproject 22 Additional Authorization (7

Under the sufficient granted in the Manorandom dated.

13 April 1973 from the DCI to the ID/A, and the extension of this authority in subsequent measurands, Subproject 22 has been approved, and \$12,029.68 of the over-all project MIMITAL funds has been abligated to cover the subproject's expenses and should be sharped to Allotnent 9-2702-75-902.

per/Chesical Division

APPROVED FOR COLICATION OF PURDS:

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Distribution; Grig & 2 - Addresses

1 - TSS/CC

1 - TSS/TASB

2 - TSS/CD

TSS/

(29 June 1959)

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MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 22

continue the research of Prof.

compounds having psychogenic and related properties from natural products.

is concentrating his studies on Rivea Corymbosa variety and Amanita Muscaria and has isolated some active materials which are of interest.

- 2. Difficulties in obtaining properly documented raw materials in sufficient quantity for further research have been to a large extent overcome. Considerable renewed interest on the part of several drug companies of foreign origin in related fungi and plant materials believed to have central nervous system activity indicate that there may be chemical compounds in the natural products under study of considerable TES interest.
- cutout for transfer of funds to the investigator. The estimated cost for the coming year of the work is \$11,567.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year 7/72 will not exceed \$12,029.68.
- 4. A Memorandum of Agreement has been signed by the contractor whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.





5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that insititution.

6. Profession holds a covert clearance under Project MULTRA C and has agreed to comply with the terms of the Memorandum of Agreement.

**A** 

Chief

PSS/Chemical Division

750 / Recent Brown

APPROVED FOR OBLIGATION OF FUNDS:

Research purector

Date: 6|30|59

Attached: Budget

Distribution: Original only

22.55

#### BUDGET FOR 1960

Salaries	<b>\$6,060.00</b>
Supplies and Equipment	2,171.00
Special Chemicals and Materials	1,000.00
Special Analyses	300.00
Travel and Comminications	400.00
Library Service	100.00
15% Overhead of Direct Co	1,536.00
TOTAL	\$11,567.00





22-50

# Budget for One Year Renewal of Research Project on Investigation of Amenita Muscaria and Rives Corymbosa - Nov. 1, 1959-Oct. 31, 1960

Research Fellowships - two (a) \$200 per month	\$4800.00
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Capital Equipment - (Electric desalting apparatus, explosion proof homogenizer, vacuostat, spinning paper chromatography apparatus, etc.)	2410.00
Special Chemicals and supplies not ordinarily stocked by Department of Chemistry	850.00
Special analyses on research samples	300.00
Travel and telephone in connection with grant	450.00
Miscellaneous - phottocopy, monographs, etc	50.00
15% overhead	1,507.00
Total grant request \$1	1,567.00



39<sup>-5</sup>7

6 January 1999

DESIGNATURED FOR: CONFTRUCTOR

ATTENTO

: Finance Division

SUBJECT

Project MINITIA, Subgraject 22
Additional Authorization #6

Under the authority granted in the Memorandum dated.

13 April 1953 from the DII to the ED/A, and the extension of this authority in subsequent memoranda, Subgraject 22 has been approved, and \$394.68 of the over-all project MUNITM funds has been obligated to cover the subproject's expenses and should be charged to Alletment 9-2502-75-902.

APPROVED FOR CHLIGARION OF PURCE:

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Jin.

Research Director

Date

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Distribution: Orig & 2 - Addresses

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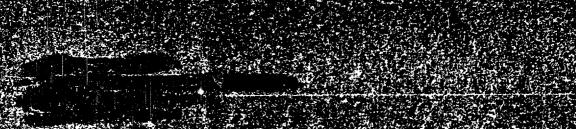
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Directors Bells to be commended to be success and exercise ellores in a success and exercise ellores ellor

Since rier soute.

14 Hovember 1958

Gentlemen:

We are placed to be able to transmit to you the following fundat

Check No.

dress on th for \$394.65.

These funds represent a contribution for the use of your directors in carrying out the very worthshile research goals of your organization.

Yours truly,

Englosures: (2)

3 November 1955

BICHARIA POR: CHIEF, FIRMER DIVINION

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1 100/Delget Cilico

SUBJECT & MONETAL Subgroject 22, Invoice No. 6 Alletment 9-2502-75-902

The second secon L. Invoice fil covering the above subproject is attached. Payment should be unde as follows

Cachier's check in the amount of \$9,867.00 draws on Continue of the Continue of th

Both checks should be made payable to

2. The checks should be forwarded to Chief, 258/Chesical Mylaion, through 185/Bulget Officer, no later than 17 Nov. 58.

3. This is a fical involve. Houver, since it is enticipated that additional funds will be obligated for this project the files should not be closed.

TER/Chemical Division

Attachments: Invoice & Certifications

Distribution

Orig & 2 - Addressee

1 - Comptroller

1 - TSS/MASE

m(371758)

mace \$10.261.68

For services

### CESTIFICATIONS

(1) It is bereby certified that this is Invoice No. 8 applying to MEWISTRA Subproject 22, 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 the bill is just and correct and that payment thereof has not yet been made.

Dates

Chief, TSS/Chemical Division

(2) It is hereby certified that this invoice applies to MINITEA Subproject 22, which was duly approved, and that the project is being carried out in accordance with his memorandum dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memorands.

Dates

Secondary Management



June 1957

### memorandum for: Chief. Pinance division

TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22. Invoice No. 6 Allorment 7-2503-19-001

1. Invoice No. 6 is attached covering the above subpreject. Payment should be made as follows:

Cashier's check in the amount of \$158.57, drawn on 4

Cashier's check in the amount of \$3,966.67, drawn on

Both checks should be made payable to the

- 2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Tuesday, 18 June 1957.
- 3. This is a final invoice. A total of \$8, 188.00 was obligated under this subproject during FT 57. However since it is anticipated that additional funds will be obligated for this project. the files should not be closed;

Chief TSS/Chemical Division

THE AMOUNT OF SA

Attachments: Invoice & Certifications

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Orig & 2 - Addressee

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TETHORIZED CERTIFYING OFFICER

INVOICE

For services

84, 125, 34

### **CERTIFICATIONS**

(1) It is hereby certified that this is invoice No. 8 applying to MKULTRA Subproject 22, that performance has been satisfactory, that the services have been 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.

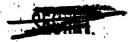
Chief, TSS/Chemical Division

Date

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, 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:



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FORM NO. 461 REPLACES FORM 33-98

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SCRIEGE & Project Millers, Subproject 22
Additional Authorization #5

thing the authority granted in the Manarandan dated

Control of the Contro 23 April 1953 from the BUI to the BB/A, and the extension of this authority in subsequent materials, Subproject 22 has been approved, The state of the s and \$9,857.00 of the over-all project MRREM funds has been gangagi an jaga san ang pagalang an ang pagalan sklighted to cover the subgraject's expenses and should be charged to Alletment 9-2702-75-901.

APPROVED FOR CHLICATION OF MINUS and the state of t

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Date

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1 - TSS/SRB

2 - TSS/CD

Chief THE Charteni Myiston

I CERTIFY THAT FUNDS ARE AVAILABLE. Man OLIGATION REFERENCE No. 1058 CHARGE TO ALLOTABIT No. 2-2563-75-702

AUTHORIZING OFFICER

Hovember 1958

MENORARIUM POR: CHIEF, PIDARCE DIVISION

B-DOM: 1 708/Bulget Officer

MINISTRA Subprojets 22, Invoice No. 8 Allotment 9-25-75-902

1. Invoice #8 covering the above Payment should be made as follows:

Cashier's check in the amount of \$9,867.0

Cushier's check in the amount of \$394.68, dram

Control Manager and Control Both chicks should be made payable to

2. The checks should be forwarded to lef, TSS/Chemical Division, through TSS/Budget Officer, no later than 17 Nov. 58.

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

> Chief. TES/Chemical Division

Attachments Invoice & Certifications

Distributions Origin 2 - Addressee 1 - Comptroller

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9-567-42 1151 394.65 איינים בין פר ויחי שניין אניניי

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This is an invoice against previously obligated funds.

1. Data of Chligation: 30 October 1958

2. Purpose of Project: Extraction of Natural Products.

3. Progress to Date: Satisfactory

4. Expiration Date: 30 October 1958

5. Project Minitor: Dr. FROM: TSS/CD

Room B- 0, Ext.

1.

owngred to: Garnor HAL
y authorit : 187475
atel June 777



23 October 1958

#### MEMORANDUM FOR THE RECORD

SUBJECT: Project MKULTRA, Subproject 22

- 1. The purpose of this Subproject is to provide funds to continue the work of Prof. On the isolation of psychogenic compounds from natural products. Prof. has been working on Rivea

  Corymbosa and Amanita Muscaria and has been able to isolate a number of interesting materials from these sources.
- 2. Progress in this field has been somewhat delayed due to difficulties in obtaining properly documented raw materials; however, sources have now been developed which should correct this difficulty and make possible the completion of the project. The recent success of the Swiss Chemists in isolating and elucidating the structure of a new psychochemical from a fungus indicates the feasibility and the necessity of continuing work of this type.
- 3. The will serve as cutout for transfer of funds to the investigator. The estimated cost of the work is \$9,867.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$10,261.68.
- 4. Prof. has signed the Memorandum of Agreement whereby title C to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.

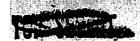
or: 187475



DET: CL BY 187475

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





DRAFT

5. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.

6. Dr. holds a covert clearance under Project MKULTRA and Chas agreed to comply with the terms of the Memorandum of Agreement.

Chief 788/Chemical Division

Attachment: Budget

APPROVED, FOR OBLIGATION OF FUNDS:

Research Director

Kelester Dragon

Date och 30-1915.

Distribution: Orig. only

THE STATE OF

wngraded to: SONFIDENTIAL authority of: 187475 to: June 1977

# BUDGET FOR 1959-60

Salaries, two pre-doctoral fellowships, principal investigator and part-time help	5,460.00
Supplies and equipment	2,000.00
Special chemicals and materials	500.00
Special Analyses on research samples	300.00
Travel and communications	400.00
Library Service	100.00
	8,760.00
Total for basis of computing University overhead	7,260.00
15% Overhead	1,107.00
Total.	9,867.00

# UNIVERSITY, Dr.

July 1, 1956, through Oct. 1, 1957 Acct 570 -- Final Report

Balance, July 1, 1956 (Per prior report) Receipts: August 31, 1956, 4th quarter January 31, 1957, 1st quarter March 18, 1957, 2nd quarter June 24, 1957, 3rd quarter		\$1 730 74 1 325 00 1 487 50 1 487 50 1 487 50
Total to be accounted for	,	7 518 24
Expenditure and charges:  Total direct charges per prior report, a Salaries, 6 mos. @ 150.00  Travel expense, Dr.  Telephone and telegraph Supplies and Miscellaneous	2/28/57 4 202 46 900 00 30 00 8 03 145 57	And the second s
Total Direct Charges	5 286 06	
Overhead, 10% of Direct Costs	<u>528 £1</u>	5 814 67
Unexpended Balance, Oct. 1, 1957		\$1 703 57 W

\* Check for \$1, 703, 57 to cover refund of unempended balance for warded to

Mr. distribution

2 November 1957

Dear Mr.

This is to acknowledge the receipt of the following checks;

Check \*G 20251 drawn on the different state of the state

Check #DM 43521 drawn on the

Your generous contributions are greatly appreciated. The funds will be utilized by our Board of Directors in furthering worthwhile research projects in the field of medical sciences.

Yours truly :

Executive Secretary - Treasurer





Request for renewal of support for the projects

Investigation of the seed of Rivea Corymbosa (oloiuqui).

Summary of work, November 1, 1955 - September 25, 1956:

Physical examination of the seed used in this work reveals that two "types" have been under investigation. Taxonomically all the seed have been called Rivea Corymbosa although one variety (the seed are the larger of the two varieties) originated in Mexico and one variety originated in Cuba. The literature on the subject of oldlingui, as far as I can ascertain indicates that its use as a psychic drug has been restricted to Mexico. This data slone would indicate the probability that the Cuban paristy lacks some physiologically active component which the Mexican variety contains. Experimental work in this laboratory has been largely restricted to the Culan variety (small seed since only a very small amount of the Mexican variety has been available. The chemical work, although not designed to compare the composition of the two varieties, has indicated some difference in the two. Also physiological tests on humans are indicative of a difference in the two varieties. This work is much too incheclusive to be much more than speculation at this time.

In addition to the isolation of glucose and hydro-quinone as constituents of clolinqui as reported in the last progress report, two crystalline fractions have been isolated which seem neither to be alkaloid or glycoside, Due to the small quantity of seed available the amount of these crystalline fractions is extremely small and little more than quilitative tests have been made on them. Experimental techniques especially in extraction and Experimental techniques, especially in extraction and separation, have been perfected which will be used to isolate pure components of the drug which, just today, has become available in sufficient quantity to make the investigation profitable.

Plans for future investigation:

Now that 50 pounds of the Cuban variety and 10 pounds of the Mexican variety are available, the following lines of investigation will be actively pursued.

1. Determine conclusively if there is a chemical difference in the two varieties of seed.

2. Obtain as many "pure" components from each variety. using previously perfected techniques, as is possible.
3. Submit for physiological testing each "mure"

component. 4. Subject each "pure" component to chemical examination to determine the type of compound, whether it is a known compound and its chemical composition if it is a new compound.

Proposed budget, November 1, 1956 - November 1, 1957.

Equipment (including larger scale extraction and separation equipme and special chemicals	nt)	\$1000.00
Analyses and tests		350.00
Travel expenses		500.00
Salaries (one graduate assistant, help and director's stipend)	laborat	ory 4000.00
Miscellaneous	٠٠٠/٠٠٠	100.00
	Total	\$5950.00
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14 October 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22, Invoice No. 7
Allotment 8-2502-10-001

1. Invoice #7 covering the above subproject is attached.

Payment should be made as follows:

Cashier's check in the amount of \$16,819.00 drawn on &

Cashier's check in the amount of \$672.76, drawn on-

Both checks should be made payable to

B

- 2. The checks should be forwarded to Acting Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Friday, 18 October 1957.
- 3. This is a final invoice. A total of \$17,491.76 was obligated under this subproject during FY 58. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Acting Chief TSS/Chemical Division

Attachments:
Invoice & Certifications

Distribution:

Wrig & 2 - Addressee

1 - Comptroller

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# Memorandum port Chief, Purance Division

TIL

TSS/Budget Officer

SUBJECT

MKULTRA Subproject 22, favolet No. † Alletment 8-2502-10-001

1. Invoice #7 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$16, 819, 00 drawn on a

Cashier's check in the amount of \$672.76, drawn on #

Both checks should be sunde payable to

The checke should be forwarded to Acting Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than I Friday, 18 October 1957.

obligated under this subproject during FT 58. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Acting-Chief TSS/Chemical Division

The same of the same of

CERTIFY PIAL EMIDS ARE AVAILABLE

F- 2502-10-001

Attachments: Invoice & Certifications

Distributions

Ac. Silvery

Besserbby - 2 4 giro

1 Comptroller

- TSS/FASB

Cashiers Check dtd 22 October 1957, No. 020251, in amount \$16819.00, and Cashiers Check dtd 22 October 1957, No. 043521, in amount \$672.76 red 24 Oct. 1957 Registered Ret. Rec. Recipeted.

INVOICE

For services

\$17,491.76

### CERTIFICATIONS

(I) It is hereby certified that this is Invoice No. 7 applying to MKULTRA Subproject 22, that performance has been satisfactory; that the services have been accomplished in accordance with mutual agreements, that a detailed agends of the payments and receipts is en 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

Dates

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, 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:

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16 August 1957

MEMORANDEM FORT CONFINCILES

ATTRETION

Carrier of the Carrie 2 Finance Division

BUBJECT

The Bridge And And the Co t Project Millitta, Subproject 22, ##

Under the authority greated in the Mesorandus dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memorands, Subproject 22 has been approved, and the control of the second of the and \$17,491.76 of the over-all project MUNITRA funds has been A CONTROL OF THE PROPERTY OF T obligated to cover the subproject's expenses and should be charged to Allotment 8-2502-10-00/.

I CERTIFY THAT FUNDS ARE AVAILABLE onignment being the 407 CHANGE 10 AD 1 10 NO 8- 3502-10-001

> Acting Chief TES/Chemical Division

APPROVED FOR GELICATION OF YUNDS!

Research Director

JUG 26 1980

Distributions Orig & 2 - Addressee

1 - TSS/CC

LE TSS/FASB

1 - TSS/SRE

2 - TSS/CD



16 August 1957

MEMORANDUM FOR: The Record

SUBJECT

Project MKULTRA, Subproject 22

- 1. The purpose of this subproject is to provide funds to continue the work of Prof. on the isolation of psychogenic compounds from natural products. Prof. has been working on the seeds of Rives corymboss and has been able to isolate a number of materials of potential interest in this field.
- 2. With the advent of feasible laboratory methods for testing psychogenic types of materials, Prof. Peels that he will be able to characterize the previously isolated materials during the coming year as outlined in the attached proposal and also fractionate Rhynchosia phaseoloides for its active principle during the same period.
- 3. Prof. was previously located at University at He is now located at University as head of the department of Chemistry. This change in position will not in any way interfere with the Agency sponsored work, in fact Prof. will have access to more and better equipment and personnel for his research.
- the The will serve as cutout for transfer of funds to the investigator. The estimated cost of the work for a period of one year beginning 1 September 1957 is \$16,819.00. To this must be added the 4% service charge to the cutout, thus the total cost for one year will not exceed \$17,491.76.
- 5. Prof. has signed the Memorandum of Agreement whereby title to permanent equipment is retained by the University in lieu of higher overhead charges and arrangements are made for accounting for funds disbursed under the grant.
- 6. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.
  - 7. Dr. holds a covert clearance under Project MKULTRA and

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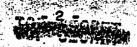
by a thority of 187475

case: June

2 IMPDET; CL BY 187475

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





ES IMPDET; CL BY 187475

has agreed to comply with the terms of the Memorandum of Agreement.

Acting Chief TSS/Chemical Division

Attachment: Proposal

APPROVED FOR OBLIGATION OF FUNDS:



Research Director

Date 26 Aug- 1959.

Distribution: Original only

Desagraded to: Company 11 by Sutherity of: 187475 cate: June 1977

E2 TAPDET; CL BY 187475



# PROPOSED RESEARCH PROGRAM

### CHEMICAL INVESTIGATION OF THE SEED OF RIVEA CORYMBOSA - OLOLIUQUI

# Work completed or in progress:

It has been ascertained that there are at least two types of seed from the plant identified as Rivea Corymbosa. One is found in Mexico the other in Cuba. Their appearent composition and physiological action on organisms differs.

From both seed, glucose and hydroquinone have been isolated and identified. One additional compound has been obtained in crystalline form, apparently pure. This compound is being studied. The bulk of the drug seems to be a glycosidic mixture. This mixture has, to date, been subjected to numerous methods and seemiques designed to separate the component parts. None has proved successful. The mixture appears, on the basis of many tests, to contain a small amount of alkaloid. It is not known whether the alkaloid is an integral part of the glycoside or not.

Physiological tests using snimals and humans have been inconclusive and confusing. Enough positive results have been obtained, however, to point out the need for more carefully designed and controlled tests.

### Proposed work:

### It is proposed to:

- Lo Complete identification of the unknown crystalline compound.
- 2. Perform physiological tests using this compound.
- So Fractionate the glycosidic mixture. Countercurrent extraction which has not been used to date will be tried.
- do Identify and prove structure of components of the mixture,
- 5. Parlorm physiological tests using the components of the glycosidic mixture.

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

Proposal page 2.

## Budget:

Salaries, two pre-doctoral fellowships, principal investigator and part time help.

\$4500

Equipment and Supplies.

9575

Travel commected with research.

300

Analyzes, special chemical, special literature, etc..

\$14,625

n

Total

15% Overhead

2,194

Requested in grant \$16,819

Signed

Principal Investigator

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

# ANGE RECEIPT Receipt is hereby acknowledged of the following two checks: Treasurer's check No. T63248, dated June 14, 1957, drawn in the amount of \$3,966.67, payable to the Cashier's check No. DM 41928, dated June 12, 1957, drawn in the amount of \$158.67, payable to the Date:

### RECEIPT

Receipt is hereby acknowledged of the following two checks:

On the single to the

Cashier's check No. DM 41928, dated June 12, 1957, drawn on \$158.67, payable to the

Date:

Sent to Mr. June 24, 1957



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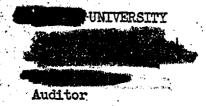
B

March 20, 1957



Enclosed please find in duplicate our statement of funds on Alkaloids of the Drug known as "Piule" for the period from July 1, 1956 through February 28, 1957. The balance shown thereon is \$1,406.82. We thank you for your interest in our projects.

Yours very truly,



Dr. Assistant Program Director

Dr. Chemistry Dept. University

Dr.

WARNING NOTICE

SENSITIVE INTELLIGENCE SOURCES AND METHODS INVOLVED

# JULY 1956 THROUGH HERWARY 1957

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- 2 gal N-Butyl Alcohol Heagent TEDS-9054	13.02	
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I have examined and approved the submitted expenditures.

SIDNEY GOATLIEB
Chief
TSS/Chemical Division

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Cashier's check No. Al06633, drawn on the dated 21 December 1956, in the amount of \$1,983.33.

Treasurer's check No. 147713, drawn on the day of \$79.33.

Both checks are payable to the line.

Date:

3 Jan 3

# 13 December 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

TIAS

TSS/Budget Officer

SUBJECT:

MKULTRA Subproject 23, Invoice 4 Allotment 7-2502-10-001

I. lavoice No. 4 is attached covering the above subproject. Payment should be made as follows:

Cashier's check in the amount of \$1,983.33, drawn on Cashier's check in the amount of \$79.33, drawn on

Both checks should be made payable to the

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Monday, 31 December 1958. Other invoices will follow.

Attachments: Invoice & Certifications

Distribution:

Orig & 2 - Addressee

1 - Comptroller

T- TSS/FASB

2 - TSS/CD

TSS/CD: (13 Dec 1956)

Chief TSS/Chemical Division I CERTISY WHAT TO USE ARE AVAILABLE.

SIDNEY GOTTLIEB

ORIGANIA A. AMIN IN . (235 CHARGE TO AND THE NO. 7- 2502-10-001

CHECKHICOLIAN THE AMOUNT OF EMIS RECEIVED. 28,089

CHECK MAZON THE AMOUNT OF BILL RECEIVED WILL



For services

\$2,062.66



#### **CERTIFICATIONS**

(1) It is hereby certified that this is invoice Aapplying to MKULTRA Subproject 22, 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 MKULTRA Subproject 22, 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

Da'e:

County !

5 December 1956

MEMORANDUM FOR: COMPTROLLER

**ATTENTION:** 

Finance Division

SUBJECT

MKULTRA Subproject 22, Additional Authorisation No. 3

1. Under the authority granted in the memorandum dated 13 April 1833 from the DCI to the DD/A and the extension of this ambority in subsequent memorands, Subproject 22 was previously approved. Under the same authority an additional sum of \$5, 188.00 has been authorized to cover the subproject's expenses. 

2. This expenditure should be charged against Allotment 7-2502-10-001.

> SIDNEY GOTTLIEB Chief TSS/Chemical Division

Approved for obligation OF FUNDS:

Crigical s said by 

Besearch Director

Dato:

Distributions

Orig & 2 - Addressee

1 - TSS/OC

1 - TSS/FASB

1 - TSS/SRB

2 9 TSS/CD

TSS/CD: (5 December 1956)

Dec indeciga?

I CERTIFY THAT PUNDS ARE AVAILABLE AUTHORIZING OFFICER

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

E2 IMPDET; CL BY 187475

DRAFT

5 December 1956

MEMORANDUM FOR: THE RECORD

SUBJECT:

Project MKULTRA, Subproject 22

- 1. The purpose of this project is to provide funds to carry out the isolation and characterization of the intoxicating substances present in certain varieties of Rivea corymbosa.
- 2. Dr. University has conducted studies on this material which have lead to the development of methods which can now be applied to large samples of seed, thereby allowing the production of sufficient quantities of the active materials for definitive biological testing and characterization. Dr. Last has submitted the attached proposal to carry out this work as directed by TSS/CD.
- 3. The serve as cutout for transfer of funds to the investigator. The estimated cost of the work is \$5,950.00 for one year. To this must be added a four percent service charge for the amounting to \$238.00. Therefore, the total cost of this investigation for one year will not exceed \$6,188.00.
- 4. In accordance with the Memorandum of Understanding with Dr. 11. The University shall retain title to any permanent equipment in lieu of higher overhead rates.
- 5. The has made arrangements for the return of unexpended monies received under a grant from the Fund and also has requested that the University submit to it a summary accounting for all monies received therefrom.
- 6. It has been mutually agreed that documentation and accounting for travel expenses under the grant which are reimbursable by the University shall conform with the accepted practices of that institution.

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

E2 IMPDET; CL BY 187475

Dow graded to: 187475 by authority of: 187475 date: June 1977



S2 IMPDET; CL BY 187475

7. Dr. holds a covert clearance under Project MKULTRA and has agreed to comply with the terms of the Memorandum of Agreement.



Chief, Branch II TSS/Chemical Division

Approved:

Attachment: Proposal

APPROVED FOR OBLIGATION OF FUNDS:

Sidney Gottlieb

TSS/Chemical Division

Research Director

Date: 7 050

Distribution:
Original only

Downgraded to a confidential by authority of: 187475 date: June 1977



Request for renewal of support for the Investigation of the seed of Rivea Corymbosa (oloiuqui).

Summary of work, November 1, 1955 - September 25, 1956:

Physical examination of the seed used in this work reveals that two "types" have been under investigation. Taxonomically all the seed have been called Rivea Corymbosa although one variety (the seed are the larger of the two varieties) originated in Mexico and one variety originated The literature on the subject of ololingui. as far as I can ascertain indicates that its use as a psychic drug has been restricted to Mexico. This data alone would indicate the probability that the Cuban variety lacks some physiologically active component which the Mexican variety contains. Experimental work in this laboratory has been largely restricted to the Cuban variety (small seed since only a very small amount of the Mexican variety has been available. The chemical work, although not designed to compare the composition of the two varieties, has indicated some difference in the two. Also physiological tests on humans are indicative of a difference in the two varieties. This work is much too inconclusive to be much more than speculation at this time.

In addition to the isolation of glucose and hydro-quinone as constituents of ololiuqui as reported in the last progress report, two crystalline fractions have been isolated which seem neither to be alkaloid or glycoside. Due to the small quantity of seed available the amount of these crystalline fractions is extremely small and little more than qualitative tests have been made on them. Experimental techniques, especially in extraction and separation, have been perfected which will be used to isolate pure components of the drug which, just today, has become available in sufficient quantity to make the investigation profitable.

Plans for future investigation:

Now that 50 pounds of the Cuban variety and 10 pounds of the Mexican variety are available, the following lines of investigation will be actively pursued.

1. Determine conclusively if there is a chemical difference in the two varieties of seed.

2. Obtain as many "pure" components from each variety. using previously perfected techniques, as is possible.
3. Submit for physiological testing each "pure"

component.

4. Subject each "pure" component to chemical examination to determine the type of compound, whether it is a known compound and its chemical composition if it is a new compound.

WARNING NOTICE

Proposed budget, November 1, 1956 - November 1, 1957.

and a second and a second oder buotie)	<b>.\$1000.</b> 00
Analyses and tests	350.00
Travel expenses	500.00
Salaries (one graduate assistant, laborator help and director's stipend)	7y 4000.00
Miscellaneous	100.00
Total	\$5950.00

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

FILEZZZ

UNIVERSITY
- Dr.
Summary of Operations

3-1-1954 5-1-1955 4-1-1956 THROUGH THROUGH THROUGH 4-30-1955 3-31-1956 6-30-1956 TOTAL 7 700 00 1 325 00 1 325 00 10 350 00

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I have examined and approved the submitted

SIDNEY COTTLIEB

TSS/Chemical Division

eii 1957

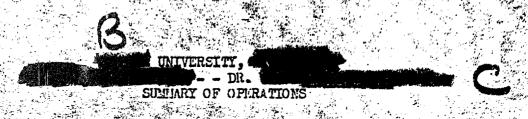
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Overhead Allowance - 10% Total Expenditures	6 792 23		23 43 257 78	8 924 60
Balance in Fund: Harch 31, 1956 May 22, 1956		358 18	District State of State Special States	1 425 40
Supplemental Receipt No. A 30002- 5/23/56				1 325 00
Adjusted Balance			-	2750 40

I have examined and approved the submitted .aew. \_breqxe

SIDNEY GOTTMIND
'Chief'
TSS/Chemical Division

Date: JUN 2 1956 GUN

NAC

Receipt F22

Receipt is hereby acknowledged of the following two checks:

Cashier's Check No. DM 35758, drawn on the dated April 23, 1958, in the amout of \$3,533,34, payable to the

Cashier's Check No. 302611, drawn on the dated April 26, 1958, in the amount \$141,34, payable to the

Date: SMay 1976

DESCRANDUM FOR a GHIEF, FINANCE DIVISION

TSS/Budget Officer

SUBJECT 1

MILITRA Subproject 22, Involes X Allotment 6-2502-10-001

Invoice 2 for the above subproject is attached. Payment stould be made as follows:

Maria Cara Maria Maria Maria Sashism's sheek in the amount of \$3,533.34 drawn on #

Cashier's check in the amount of \$141.34 drawn on

Both checks should be made payable to the S

- Francisco de la Constitución de 2. The above checks should be forwarded to Chief, TSS/Chemical. Mivision, through ISS/Budget Officer, no later than 27 April 1956.
- 3. This is a final invoice. A total of \$5,512.00 was obligated under this subproject during FY 56. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

SIDNEY COTTLIES Chief

CSS/Chemical Division

CHECK# 3026/IN THE AMOUNT OF \$ 1955 RECEIVED. 4MAY

Altachmenter

Invoice & Certifications

Distributions

A Property of the

Ords & 2 - Addresses

· L - Comptroller

CHECK# DATE ANDUNT OF \$35237

RECEIVES 4 MAY

CERTIFIED FOR PAYMENT OR CREDIT

AUTHORIZED CERTIFYING OFFICER

16 April 1956

PERIPARDIM FOR CRIEF. FIRMER DIVISION

VIAS

TSS/Sodent Officer

SUBJECTS

to the second Mulita Seproject 22, Inveice 2 \*Alletment 6-2502-10-001

La Invoice 2 for the above subproject is attached. Payment abould be unde as follows:

Cambiar's shock in the amount of \$3,533.34 drawn on #

Cashier's check in the smount of \$141.34 drawn on

THE REPORT OF THE PERSON NAMED IN Both shocks should be made payable to the M

SIDERY GOTTLIRD Wild was 185/Chemical Division

ONIGATION REFERENCE No.

CERTIFY THAT FUNDS ARE AVAILABLE &

AUTHORIZING OFFICER

CHARGE TO ALLOTMENT No. 6-2502-16-001

585

- 2. The above checks should be forwarded to Chief, 755/Chemical Division, through 185/Budget Officer, no later than 27 April 1956.
- This is a final invoice. I total of \$5,512.00 was obligated under this subproject during TY 56. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Attenhantes Disoles & Certifications

Distributions

Orig 2 2 - Addresses

1 - Comptroller

士 — TSS/FASE

2 - TSS/ED

TSS/CD (16 April 1956)

 $\Box \Box \Box$ 

% APR 18 9 39 AH '56

SENAUMIN/TES

And the second second second

INCIOR

Tor services

\$3,674.68

#### CERTIFICATIONS

(1) It is hereby certified that this is Invoice applying to MKULTRA Subproject 22, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agends 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

Dates

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 22, 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:

SUB PESZOL

April 7, 1956

3

Attention:

Director

M.D.

Déar Dr

We have your letter of March 29, 1956 relative to your research grant made for the investigations of our Dr. It is indeed a privilege to serve you and your profession in this connection, and our omission of acknowledgments and statements are due to pressure of work rather than to lack of interest or gratitude in this and other projects.

We have prepared a set of statements covering Dr. coperation of your project and are enclosing three copies. These consist of a summary of the entire period from March 1, 1954 through March 31, 1956, supported by two detailed statements covering the periods March 1, 1954, to April 30, 1955, and May 1, 1955, to March 31, 1956.

These statements show receipt from you of \$7,700.00 on the grant to November 1, 1955 and \$1,325.00 on the second grant (\$5,300.00) to October 31, 1956. Should you desire a restatement of the operations to coincide with the grant terminations, we shall be happy to make them up accordingly.

Yours very truly,

Vice President

By

Auditor

cc: Dr. Dr. Dr.

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED



# SUMMARY OF OPERATIONS MARCH 1, 1954 THROUGH MARCH 31, 1956

	3–1–1954 through 4–30–1955	5-1-1955 through 3-31-1956	TOTAL
RECEIPTS	7 700 00	1 325 00	9 025 00
EXPENDITURES:			
Salaries	5 610 01	1 079 00	3 719 04
Travel	230 00	180 00	F10 00
Apparatus, Supplies and Expense	979 72	<b>Ш</b> 5 17	1 424 89
Equipment	2 325 00	-	2 325 00
Total Direct Expenditures	6 174 76	1 704 17	7 878 93.
Overhead Allowance - 10%	617 47	170 42	787 89
Total Expenditures -	6 792 23	1 874 59	8 666 82
Balance in Fund: April 30, 1955 Harch 31, 1956	907 77		358 <u>1</u> 6
			1000

I have examined and approved the submitted

expenditures.

SIDNEY GONTLIEB
Chief
TSS/Chemical Division

Date:

9 1956

1954 THOUGH APRIL 30, 1955

REDETYS:   Carch   195k   Receit   1721   1925 00     May				
May	MECEIPTS:			
Dec. 13,"   Ali396   1.925 CO 7.700 CO	. Harch, 1954 Receipt A7231	The state of the s	1 925 00	
Dec. 13,"   Ali396   1.925 CO 7.700 CO	Hay . " A0918	-44	1 925 00	
EMPRIDITURES;  Salaries - Harch 1951; 1985 - Dr.	Sept. " " All 598			
EMPRIDITURES;  Salaries - Harch 1951; 1985 - Dr.	Dec. 13," " All 396		1 925 00	7 700 00
Selaries— Harch 1954 JV498 - Dr.  April " Ck105787 - Gradiate assistant 16 20  May " JV531 - Dr.  Aug. " JV751 - 27 00  Aug. " JV752 - 27 00  Aug. " JV7169 - Dr.  Loo 00  Sept. " JV1069 - Dr.  Loo 00  Loo 0				
Harch 195k JV198 - Dr.  April " 5745k - Dr.  May " 57752 - 27 00  Aug. " 5791k - 3 15 00  Sept. " JV1069 - Dr.  " " 163 6k  Nev. " JV1103 " " 163 6k  Nev. " JV1105 " " 163 6k  Nev. " JV1266 " " 163 6k  Dec. " JV1266 " " 163 6k  Feb. " " 164 6k  Travel-  June 195k Ck 111653 - Dr.  To meeting on alkaloid research  Payroll Expense-  Hay 195k JV192 Workmen's Comp. insurence:  Aug. " JV1266 " " 169  " Social security times 9 82  Apperatus, Supplies and Expense.  March 195k Ck 10589 W - Advertising in  Ghemical & Engineering News  April 195k Ck 10559 - 28  Hay 195k Ck 10559 - 28  Heating mental and support  Chemicals  Ck 107270 - 28  Chemicals  Ck 107270 - 28  Chemicals  Ck 107270 - 28  Chemicals  Ck 10560 - 28  Invarial timer  June 195k Ck 10580 - 28  In	EXPENDITURES:			
April " Chlo5787 - Graduate assistant 16 20  Hay " 7752 -				
Lay				
July " JV152 - 27 06 Aug. " JV1049 - Dr. 15 00 Sept. " JV1059 - Dr. 163 64 Oct. " JV1103 " " 163 64 Nev. " JV1165 " " 163 64 Nev. " JV1165 " " 163 64 Dec. " JV1266 " " 163 64 Dec. " JV1266 " " 163 64 The second of the second o	•			in the second
Aug. " JV914 - Dr. 165 CO Sept. " JV1069 - Dr. 163 64 Oct. " JV1103 " " 163 64 Nov. " JV1165 " " 163 64 Nov. " JV1266 " " 163 64 Dec. " JV1266 " " 163 64 Dec. " JV1266 " " 163 64 To " " 160 CO Jan. 1955				# # # # # # # # # # # # # # # # # # #
Sept. " JV1059 - Dr. 163 64  Oct. " JV1103 " " 163 64  Nov. " JV1105 " " 163 64  Dec. " JV1266 " " 10 163 64  Dec. " JV1266 " " 10 165 64  " " 10 163 64  Feb. " " 163 64  Feb. " " 165 64  Trarel-  June 1954 Ck 111655 - Dr. 163 64  To meeting on alkaloid research  Payroll Expense- May 1954 UN592 Workmen's Gorp. insurance 74  Aug. " JV956 " " 12  Nov. " JV1266 " " 169  Feb. 1955 " " 169  Feb. 1955 " " 169  Feb. 1955 " " 169  Apperatus, Supplies and Expense.  March 1954 Ck100597 - Advertising in Chemical & Engineering News 11 70  April 1954 Ck100597 - Triumion cups & other fittings 86 05  Ck 103707 - 160  Ck 103707 - 160  Ck 103707 - 160  Heating mantel and support 187  Gk 207270 - 160  Chomicals Ck 104570 - 160  Internal timer 8 95  Swolte exchanges & absorbent 10 00  Swolte exchanges & absorbent 27 89  Swolte exchanges & absorbent 27 89  Swolte exchanges & absorbent 27 89	ਰੰਘੀਤਾ " ਹੈ7752 – "			. 4
163 6k				
Oct. " JV1103 " " 163 64 Nov. " JV1165 " " 163 64 Dec. " JV1266 " " 163 64 Dec. " JV1266 " " 160 00 Jan. 1955 163 64 Feb. " " " 163 64 Travel. June 1954 Ck 111653 Dr. To meeting on alkaloid research Payroll Expense May 1954 07 " " 169 Payroll Expense May 1954 0 " " 169 Peb. 1955 " " 169 Feb. 1955 " " 170 April 1954 Ck1059: — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 103707 — Triumion cups & other fittings 86 05 Ck 10308 — Triumion cups & othe				
Nov. " JV1266 " " 163 6h Dec. " JV1266 " " 160 00 Jan. 1955 163 6h Feb. " 163 6h Feb. " 163 6h Jan. 1955 16 111653- Dr. Travel- June 195h Ck 111653- Dr. To meeting on alkaloid research Payroll Expense- May 195h JV692 Workmen's Comp. insurance May 195h Ck:0893F - Advertising in Ohemical & Engineering News March 195h Ck:0893F - Advertising in Chemical & Engineering News March 195h Ck:0893F - Advertising in Chemical & Engineering News April 195h Ck:08595 - 44 Triumion cups & other fittings 86 03 Ck: 10370F - 44 Laboratory equipment 86 h6 Extraction Specifics & martles 225 02 Gk: Ck:10370F - 45 Hay 195h Ck: 106059 - 46 Internal timer June 195h Ck: 1038CH - 46 June 195h Ck: 1038CH - 47 June 195h C				
Dec. " JV1265 " 163 64 100 0				
Jan. 1955 Feb. " 163 64 Feb. " 163 64 June 1954 Ck 11165 - Dr. To meeting on alkaloid research Payroll Expense- May 1954 JV692 Workmen's Comp. insurance May 1954 JV692 Workmen's Comp. insurance May 1954 JV692 Workmen's Comp. insurance Mov. " JV1206 " " " 12 Nov. " JV1206 " " 69 Feb. 1955 " " 69 Feb. 1955 " " 69 Apparatus, Supplies and Bujersa. March 1954 CkC693 F- Advertising in Chemical & Engineering News 11 70 April 1954 CkC693 F- Advertising in Chemical & Engineering News 11 70 April 1954 CkC695 H- Advertising in Chemical & Engineering News 36 63 Ck 10370F - 12 Laboratory equipment 65 46 Extraction specifies & mantles 225 02 Gk 10370F - 22 Laboratory equipment 321 Hay 1954 Ck 106050 - 16 Heating mantel and support 12 Chemicals Gk 10727C - 1834 Chemicals Gk 10727C				
Jan. 1955 Feb. " " " 163 6h 2 6h0 ch Travel- June 195h Ck 111657- Dr. To meeting on alkaloid research Payroll Expense- Hay 195h JV592 Workmen's Comp. insurance 7h Aug. " JV596 " " 12 Nov. " JV1206 " 69 Feb. 1955 " " 69 Feb. 1955 " " 69  " Social security times 9 82 Apparatus, Supplies and Expenses March 195h Ck9893F- Advertising in Chemical & Engineering News 11 70 April 195h Ck10059N - 4  Triumion cups & other fittings 86 03 Ck 10370F - 86 Extraction associating in 17 Ck 10430F - 86 Heating mantel and support 18 75 Ck 10420F - 87 Cknoticals Ck 1050C - 87 Cknoticals Cknoticals Cknoticals Cknoticals Cknoticals Cknoticals Cknoticals Cknotic				
Travel				
June 195h Ck 111653- Dr.			a Sha sh	- " - " - 3
June 195h Ck 111655 - Dr.  To meeting on alkaloid research  Payroll Expense- Hay 195h JV692 Workmen's Comp. insurance 7h Aug. " JV956 " " 269 Nov. " JV1206 " " 69 Feb. 1955 " " 69 Feb. 1955 " " 69  Social security tames 9 82 12 06  Apperatus, Supplies and Expense. March 195h Ck;0893F - Advertising in Chemical & Engineering News 11 70 April 195h Ck;0059; - 11  Triumion cups & other fittings 86 05 Ck 10370F - 22 Laboratory equipment 86 h6 Extraction assorblies & martles 225 02 Ck: Ic438F - 225 02 Ck: Ic438F - 225 02 Ck: Ic458F - 225 02 Chemicals Ck: 10650C - 225 Internal timer June 195h Ck 11870 - 23 scarters Sower June 195h Ck 1038CH - 25 Skolite exchanges & maorbent 27 89 July 195h Ck 11912N - Petty cash*	는 사람들이 보면 보다 있다. 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 바다를 받는다. 그들은 사람들은 사람들은 바다를 받는다. 그렇게 되었다면 보다는 것이다. 그렇게 되었다면 보다는 것이다면 보다면 보다는 것이다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보	103 677	5 000 00	
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Payroll Expense- May 195h JV692 Workmen's Gorg. insurance: 74 Aug. " JV956 " 12 Nov. " JV1206 " 16 Peb. 1955 " 169 Peb. 1955 " 169 Peb. 1955 " 17 Apperatus, Supplies and Expense. March 195h Ck9893F- Advertising in Chemical & Engineering News 11 70 April 195h Ck10059N - 17 Triumion cups & other fittings 86 03 Ck 10370F - 17 Laboratory equipment 86 46 Extraction assemblies & mantles 225 02 Gk 10438F - 18 May 195h Ck 10603 - 18 Heating mantel and suppert 18 75 Gk 10727C - 18 Chemicals Gk 1075CC - 18 Internal timer June 195h Ck 11857C - 10 00 Suchite exchanges & absorbent 27 89 July 195h Ck 11912N - Petty cash-			220 00	
May 1954 JV592 Workmen's Comp. insurance:  Aug. " JV1206 "			. 250 60	
Aug. " JV956 " 69  Nov. " JV1206 " 69  Feb. 1955 " 69  Feb. 1955 " 69  Appearatus, Supplies and Expense.  March 195h Ch989 F Advertising in  Chemical & Engineering News 11 70  April 195h Ck10055% — 17 innion cups & other fittings 66 05  Ck 10370F — 66 05  Ck 10370F — 66 05  Ck 10438F — 67 06 06 06 06 06 06 06 06 06 06 06 06 06	Har 105h 10602 Carlment a Coma increases	7),		
Nov. "JV1206" Feb. 1955 " 69 Feb. 1955 " 982 12 06  Apporatus, Supplies and Expense.  March 195h Ck:0893F- Advertising in Chemical & Engineering News 11 70  April 195h Ck:10059N -  Triumion cups & other fittings 86 03  Ck: 10370F -  Laboratory equipment 86 h6 Extraction assorblies & martles 225 02  Gk: 10h38F -  Heating mantel and suppert 11 75  Gk: 207270 -  Chemicals  Gk: 10650C -  Internal timer 8 96  Internal timer 8 96  June 195h Ck: 10h38CH -  Suchible exchanges & absorbent 27 89  July 195h Ck: 11912N - Petty cash				
Feb. 1955  Social security tames  Apperatus, Supplies and Expense.  March 195h Clc6893F- Advertising in  Chemical & Engineering News  April 195h Ck10059N-  Triumion cups & other fittings  Ck 10370F-  Laboratory equipment  Extraction assemblies & mantles  Ck 10138N-  May 195h Ck 106050-  Heating mantel and support  Ck 107270-  Chemicals  Ck 1065CC-  Internal timer  June 195h Ck 1013CN-  June 195h Ck 1013CN-  June 195h Ck 1013CN-  Suclide exchanges & absorbent  July 195h Ck 1191ZN-Petty cash		69	y .	
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March 195h Cho893F- Advertising in Chemical & Engineering News  April 195h Ck10059N -  Triumion cups & other fittings  Ck 10370F -  Laboratory equipment  Extraction assemblies & mantles  Ck 10438F -  Hay 195h Ck 106050 -  Heating mental and support  Chemicals  Ck 107270 -  Ohemicals  Ck 10650C -  Internal timer  June 195h Ck 11457C -  3 cartons Sowex  June 195h Ck 1038CH -  Suclide exchanges & absorbent  July 195h Ck 11912N - Petty cash				<b>.</b>
GR ICH38F - Car-Fright 3 21  May 195h Ck locc50 - Heating mentel and support 1h 75  GR 107270 - Chemicals 27 30  Chemicals 37 30  Chemicals 47 30  Internal timer 5 95  June 195h Ck locs60 - 10  June 195h Ck locs60 - 10  Suclide exchanges & absorbent 27 89  July 195h Ck 1191ZN - Petty cash		•	<b>*</b>	* * * * * * * * * * * * * * * * * * * *
GR ICH38F - Car-Fright 3 21  May 195h Ck locc50 - Heating mentel and support 1h 75  GR 107270 - Chemicals 27 30  Chemicals 37 30  Chemicals 47 30  Internal timer 5 95  June 195h Ck locs60 - 10  June 195h Ck locs60 - 10  Suclide exchanges & absorbent 27 89  July 195h Ck 1191ZN - Petty cash		11 70	<b>, 19</b> 0	
GR ICH38F - Car-Fright 3 21  May 195h Ck locc50 - Heating mentel and support 1h 75  GR 107270 - Chemicals 27 30  Chemicals 37 30  Chemicals 47 30  Internal timer 5 95  June 195h Ck locs60 - 10  June 195h Ck locs60 - 10  Suclide exchanges & absorbent 27 89  July 195h Ck 1191ZN - Petty cash			Ž	N /
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GR Ich38F - Corfright 3 27  Hay 195h Ck locc3 - Heating mantel and support 1h 75  GR 107270 - Chemicals  GR 1065CC - The There Is 95  Internal timer 8 95  June 195h Ck llh57C - Soven 10 Co 15  Suclide exchanges & absorbent 27 89  July 195h Ck 11912W - Petty cash 521250rs and atomizer 2 75	Extraction essemblics & martles	225 02	> 1 V	7 2
Hay 195h Ck 106050 - Heating mantel and support  Gh 107270 - Chemicals Ch 106500 - Internal timer  June 195h Ck 101870 - 3 cartons Sowex  June 195h Ck 10380H - Suclide exchanges & casorbent July 195h Ck 11912N - Petty cash- Selscors and abonizer  27 89	GR ICH38F - Can-Freigh	3.21	a" W/	
Heating mental and support  Gh 107270 - Chemicals  Ch 106500 - Chemicals  Thermal timer  June 195h Ck 11h570 - Chemicals  Such the such anges & absorbent  July 195h Ck 11912N - Petty cash  Schedors and abonizer  27 89			E VS	
Chr 107270 - Chemicals Chr 106500 - Internal timer June 195h Chr 11h570 - 3 eartens Sower June 195h: Ckr 10380H - Suclide exchanges & absorbent July 195h: Ckr 11912N - Petty cash- Schedors and abomizer  27 89		11: 75	3. V V	4
Chemicals Ch 1065CC - Internal timer  Internal timer June 1954 Ch 11457C - 10 CO  3 cartons Sover June 1958 Ck 1038CH - 27 89 4 5  July 1958 Ck 11912N - Petty cash- Selscors and abonizer  275			\$ 11/V	7
Ch: 1065CC - Internal timer June 195h Ck 11k57C - 3 cartens Sower June 195h Ck 1038CH - Suclide exchanges & absorbent July 195h Ck 11912N - Petty cash- Selecors and atomizer  27 89		27 39	a //////	, ·
Internal timer  June 1954 Ck 11457C - 10  3 cartons Sover  June 1951; Ck 1038CH - 10  Suclide exchanges & absorbent  July 1956 Ck 11912N - Petty cash-  Selectors and atomizer  27 89				•
June 1954 Ck 1457C - 10 Co  3 cartene Sower  June 1954: Ck 1038CH - 10 Co  Suclide exchanges & absorbent  July 1954: Ck 11912N - Petty cash-  Selscors and abonizer  27 89		8 95	30	· · ·
June 1951: Ck 1038CH - Swell 27 89 - Swellite exchanges & absorbent 27 89 - Swellite exchanges &		gr. a	A 20. L.	£23
Suclife exchanges & absorbent 27 89 4 5 July 195h Ck 11912N - Petty cash- Selectors and abonizer 2 75		TO GO 6	***	<i>'</i> ≠3
July 1950 Ck 11912N - Petty cash- Selectors and atominer		22 00 25	<b>D</b>	ر.
Selectors and aboutizer		المراقع المراقع	<b>Q</b> -	
DELECTIVE SIMU HOURINGS		· · · · · · · · · · · · · · · · · · ·	<b>. . . . . . . . . .</b>	The second second
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Deeminac model & filter 5 72		
Gt 122711 - 100000		
Laboratory Jack * 33 61		
Jv809 - Tubber sheeting, blade		
assembly, orc. 205 69		
Ck 12189N - Automo hencer and blades 20 70		
Aug. 1954 - Ck 11391F -		
Funnels, filter and puls		
Ck 11353F -		
Diomane Laul 2317	•	
JV861 - Vol.1 The Alkaloids 13 21		
Vol.1 The Alkaloids		
Ck 11609F - Chemistry 5 53		
Ck 11353F -		
Tubes, reducers & mantle		
Sept. 1951 - Ok 11915F-		
Heating mentle sad support 22 50		
Ck. 12125C - 1000 - 100		
- Phensnihsone 8 75		
	and the second s	
The Bors to Perception 1 33		
Chemical Constitution 6 or		
Dec. 1954 - CK 120950-		
Emilsia, invertase Analy.		
Jan. 1955 - Ck 1/35111-		
6 16 Feb. 1955 - Ck 13277N - 38	967 66	
	797 CO	
Equipment:		
Jan. 20, 1955 Chack 3hi3 - 121080-	••	
- 1 Model DR,		
Speciaropholometer, Beckman #9500 7 475 00		
Less borne by Chemistry Dept. (2) 5 150 00	2 325 00	· · ·
Total Expenditures	6 7ml mc	
The state of the s	6 171: 76	
Overhead Allowence - 105	527 107	6 772 25
	The Country of the Co	7 1/2 C

Eslence Available in Fund at April 30, 1955

I have examined and approved the arethod 23? er incitures.

Chief Chief

TSS/Chemical Division

#### MAYALA 1955 THROUGH HARCH 31, 1956.

Beginning Belance May 1, 1955		
Receipts:	907 77	
Nov. 7, 1955 Receipt 23881	<u>1 325 00</u>	2 232 77-
Expenditures:		
Salaries-		
July 1955 Student Help	27 00	
August 1955 m m m November 1955 m m	19 75	
December 1955 Dr.	12 25	
January 1956 Graduate Assistant	7 400 00 150 00	
	150 00	
January 1956 Student Help	2 00	
February " Graduate Assistant	150 00	
" Student Help  March 1956 Graduate Assistant	18 00 A 18 00 A	
MAION 1770 GRADINAGE ASSISTANT	150 00 1 079 00	
Travel-	$\hat{E} \setminus \hat{I}_{i}$	
Sept. 10, 1955 Dr.	<b>H</b>	
	180 00	
Apperatus, Supplies & Expense		
Workmen's Compensation Insurance		
Telephone	1 L3 14 64 _	
Nauling	5 14 3	
Printing, Stationery	5 14 6 12 12	
Jan. 16, 1956 Ck 3842C	B 173 55 mg 174 175 mg 175 175 mg 175 175 mg 175 175 mg 175 175 175 175 175 175 175 175 175 175	
1 Thelco Vacuum Oven Jan. 1956 Ck 27750 -	119 22 2	<b>g</b>
Scientific - 1 Indicator spray bottle	12 50 🛔 📈	<b>1</b>
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	1 704 17	
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Balance available in Fund, March 31, 1956		358 28

FILE SUB 22

#### 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.

Dato: Fol 14, 1956

I hereby acknowledge receipt of the following: Treasurer's Check #T51699 drawn on the payable te in the amount of \$70.66. Official Check #G 3951 drawn on payable to in the amount of \$1,766.66. Date: 8 1/3/ 55

12 Cutober 1955

MEMERANDIM FORE CHIEF, PIRANCE DIVINION

TIA.

t TES/Budget Officer

SUD MCT

Millera Bubgeoject 22, Involce & 3 Allotment 6-2502-10-001

1. Invoice At is attached covering the above subproject. Other involces will follow later. Payment should be unde as follows:

he cachier's checks, revable to the one check in the amount of \$1,766.66, dress com wilk, and the second check for \$70.66, dress on

2. Both checks should be forwarded to Chief, ISS/Chemical Division, through TSS/Budget Officer, no lattr than 25 October 1955.

> BIDERY COUNTRY Chief which THE/Chemical Division

Attachments: Devoice & Cortifications

Distributions

Orig & 2 - Addresses

1 - Comptroller

TSS/FASB

2 - TSS/CD

CERTIFY THAT FUNDS ARE AVAILABLE

CHUGATION ATTERICE No. SSS CHARGE TO ALLOTMENT No. 6-2502-16- 601 13.0cr

THOSEZING CHICER

CHECK TOLES IN THE AMOUNT OF \$20.66 REDEIXEN, MO. 1950

235/CD: (11 October 1955)

CHECK#6 399 IN THE AMBUNT DE 51766 66 RECEIVED. . Xo. 1854

JEUNE!

INVOICE

For services

\$1,837.32

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Subproject 22 of MEULTRA, 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 TES/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TES/Chemical Division

Date

(2) It is hereby certified that this invoice applies to Subproject 22 of MANIARA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the Dul to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Ostra

#### 26 September 1955

MEMBRANDOM PCR: ("MPTHOLLISE

ATTESTICE 1 Pinence Division

SUBJECT : MEDICAL Subproject 22, Additional Authorisation 42

Under the authority granted in the memorandum dated 13 April 1953 from the DGI to the ID/A and the extension of this authority in subsequent assertants, Subproject 22 was previously approved. Under the same authority an additional sum of \$5,512.00 has been authorised to cover the subproject's expenses (thereby bringing to a total of \$5,512.00 funds obligated during FI 56) to be charged to Allotment 6-2502-10-001.

SIDERT GOTTLIED Chief TSS/Chemical Division

APPROVED FOR FUNDS:

Research Director

Dates

Distributions

Orig & 2 - Addresses

I - TSS/OC

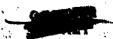
1 - TSS/FASB

1 - TSS/SRB

2 - TSS/CD

TS5/CD 200 (26 September 1955)

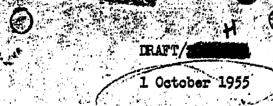
H



Downgraded tos CONFERNIAL by authority of: 187475

date: June 1977

ME IMPDET; CL BY 187475



MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA Subproject 22

- 1. Subproject 22 is a continuation of Subproject 1, which had as its scope preliminary work on the isolation and characterization of the alkaloids of Impomea sidafolia Choisy (Rivea corvm bosa) in order to determine their activities as agents affecting the central nervous system.
- 2. The results of the preliminary study are such that a full program of research on this material is desirable. However, further investigation is required to determine the best technique to be used in the purification of certain glycosides. Dr. who conducted the preliminary work, has submitted the attached proposal to carry out this work as outlined by TSS/CD.
- as cutout for transfer of funds to the investigator. The estimated cost of the work according to the proposal is \$5,300.00 for one year. To this must be added four percent service charge for the amounting to \$212.00. Therefore, the total cost of this investigation for one year will not exceed \$5,512.00.
- 4. In accordance with the Memorandum of Understanding with Drambthe University shall retain title to any permanent equipment in lieu of higher overhead rates.
- 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.
- 6. Dr. has agreed to comply with the attached Memorandum of Understanding. He has been granted a TOP SECRET Agency clearance and is fully capable of protecting the Government's interest in this project.

APPROVED:

Research Director

Date: 10 4 55

Distribution: Original Only

1

TSS/GD: (26 September 1955)

Orlef, TSS/Chemical Division

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

E2 IMPDET; CL BY 187475

SECTION AND ADDRESS OF THE PARTY.

26 September 1955

MEMORANDUM FOR: COMPTROLLINE

ATTESTICS

Finance Division

SUBJECT

MATTINA Subproject 22, Additional Authorisation

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 removands, Subproject 22 was previously approved. Under the same authority an additional sum of \$5,512.00 has been authorised to cover the subproject's expenses (thereby bringing to a total of \$5,512.00 funds obligated during FY 56) to be charged to Allotment 6-2502-10-001.

THE/Chemical Division

APPROVED FOR COLIGATION OF PURDS:



ORLIGATION RETRIBUCE NO. 505 CHARGE TO ARLUTIMENT NO. 6-3534-70-00

AUTHORIZING OFFICER

SIDNEY COTTLINE

Bossarch Director

Dates

Distributions

Orig & 2 - Addresses

🔃 👊 🗀 TSS/OC 👙

-1 - TSS/FASB

I - TSS/SRB

2 - TSS/CD

TSS/CD was (26 September 1955)

11

outhority of: 187475

MEDET; CL BY 187475

September 10, 1955

Attn.-Dr. Sieney Gottlieb

Yon May 2 constituted a brief My letter to the. progress report of my work on the project dealing with the drug "Piule". Since that time, arrangements have been made with head of the Department of C Dr.4 to carry out physiological g the in tests on the purified glycoside obtained from "Piule". These tests will take a considerable portion of the glycoside obtained from the "Piule" on hand, however, Dr. of your Corganization has indicated that he will make more of the drug available to me. When I obtain this new supply of the drug I plan to extract and purify a sufficiently large quantity of the glycoside so that when it is subjected to splitting, the aglycone which is obtained will constitute a fraction large enough to be tested in detail. To date the aglycone has been obtained in minute traces as a dark tar. The only tests which it has been possible to carry out on this material are those using alkaloidal reagents. These tests have indicated the presence of alkaloids. The glycoside gives indecisive results when tested for nitrogen using the sodium fusion technique. Quantitative micro Kjeldahl determinations indicate 0.70% nitrogen. Assuming the presence of one nitrogen in the molecule and assuming that the glycoside is pure, this percentage of nitrogen would indicate a molecular weight of 2x10. Due to the insolubility of the glycoside in the solvents usually employed in the Rast method for molecular weight determinations, the molecular weight of the glycoside has not been determined.

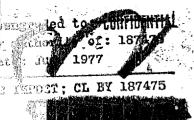
The glycoside has been fractionally extracted using various polar solvents. The fractions obtained from these extractions all have essentially the same ultraviolet spectra. This would indicate a fair degree of purity. The melting point is not sharp. As is characteristic of amorphous compounds it softens over a wide range; melting between 120 and 130°C.

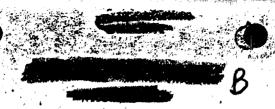
Further attempts will be made to fractionate this glycoside fraction by countercurrent extraction and also by altering the chromatographic techniques employed to date.

Microenzymatic methods will be employed to determine if the glycosidic linkage is alpha or beta.

howngraded to: Milliant by authority of: 187475







page 2

Additional paper chromatographic tests will be employed to determine whether or not the glyco portion of the glycoside is glucose or whether some other sugar is present.

Attempts will be made to isolate sufficiently large quantities of the aglycone in crystalline form so that in addition to the chemical tests, physiological tests may be carried out on it and the results compared with those obtained on the glycoside.

Qualitative and quantitative functional group determinations will be made on the aglycone if it can be obtained in pure form.

In order that this project may be carried on more expeditiously I plan to hire one graduate student who can assist me in the work.

#### Proposed budget for one year

Equipment (including Extracto-matic, giant blendor, fraction collector, etc.)\$	/ <i>000.00</i> <b>4</b>
Special chemicals	150.00
Analyses and tests	300.00
Travel expense	250.00
Laboratory help and miscellaneous	200.00
One graduate assistant for one year	1800.00
Stipend for director	1600.00
Total <del>4</del>	300.00

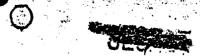
Respectfully submitted,

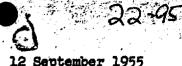
Associate Professor

Downgrased to CHIBENDAL by authority (\* 18747)



2 IMPDET: CL BY 187475





12 September 1955

MEMORANDUM FOR THE RECORD

SUBJECT: Contact - Dr.

1. On this day the writer spent two hours with Dr. discussing various aspects of his project on the isolation of the active principle of Rivea corymbosa.

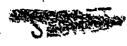
- 2. The two bags of additional seed were given to Dr. He indicated that they would hold him for awhile, but that he could use at least five pounds more in the coming year.
- 3. The question of accounting for the grant was briefly passed along to us examples of the three-month discussed and Dr. accountings which he routinely gets from the university. They are attached to the proposal discussed below.
- 4. Dr. submitted his proposal for the next year, which was discussed in detail with him. The minor addition was suggested to be added to the category of "equipment". He has about \$470 left in his present grant, as of today. He indicated that, if November 1, 1955 is the starting date for the new grant, and if he receives the first portion of the money promptly by that date, things will go smoothly.
- raised some problems that he has in connection with having a graduate student. He wondered if there were security considerations in his having such an assistant. The writer explained that there were none; that he should hire a person for the job strictly on the basis of his qualifications and his personal acceptability to
- also discussed the possibility of another move in several years from now, and wondered what our attitude would be about this. He was advised not to worry about this until it became more imminent.
- 7. This being the writer's first contact with Dr. impression of Dr was very favorable, particularly along the lines of sincerity and Integrity.

SIDNEY GOTTLIER

In letter

Chief

TSS/Chemical Division





## UNIVERSITY

HARCH 1, 1954 THROUGH APRIL 30, 1955

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May 1954 JV692 Workmen's Comp. insurance 74		
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Nov. " JV1206 " " " 69		٧.
Feb. 1955 " " " " 69		•
" Social security taxes 982	12 06	
Apperatus, Supplies and Expense-		
March 1954 Clo9893F- Advertising in		•
Chemical & Engineering News 11 70	4	
April 1954 Ckl0059N - Triunion cups & other fittings 86 03	•	
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June 1954 Ck 103CON - 27 89		
July 195h Ck 11912N - Petty cash-		

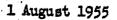


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Laboratory Jack JV808 -	1/33 Q1,	•	
Funnels, rubber sheeting, blade		•	
assembly, etc.	1205 69	•	
Ck 12189N - Autemp heater and blades Aug. 195h - Ck 11331F -	125 70-1		
Furnels, filter and tube	V15 11.V		
Ck 11353F -	V3 70 √		•
Dioxane Math 2317	V3 70 V	•	•
Vol.1 The Alkaloids	413 21		
Ck 11609F -			
ck 11353F -	V5 53	1.	
Tubes, reducers & mantle	LII, 32V	. 3483	
Sept. 1954 - Ck 11915F-	_ /		
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Meb. 1955 - Ck 13279N -	<u>- 18 سن</u>	967 <b>6</b> 6	•
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Balance Available in Fund at April 30, 1955			<u>907 77</u>
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111.	traha	Management County (1977)	200

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MEMORANDUM FOR: THE RECORD

SUBJECT

: Addendum to Subproject 22

. 1. The purpose of this addendum is to set forth the mutual administrative responsibilities of the contractor and sponsor.

of Dr. located at University, financed by MKULTRA, covering the period 28 January 1954 through 28 January 1956.

B 4C

3. The has requested the University to submit to them a summary accounting of monies received from the Fund. Also, they requested the return of any unexpended funds received under a grant from the Fund.

B

- 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

Chief

TSS/Chemical Division

APPROVED:

Chief, Technical Services Staff

Distribution: Orig & 1 - TSS/CD

Was H



: Extension of Time for Project MKULTRA, Subproject 22

Since Subproject 22 has expired and there are still funds remaining in the project, Subproject 22 is hereby extended for one year from date of expiration.

APPROVED:

Chief, TSS/Chemical Division

Original Only

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#### INVOICE

August 3, 1954

C

3, 35-101

4 August 1954

MENORANDUM FOR: CHIEF, FINANCE DIVISION

VIA:

TSS/Budget Officer

SURJECT:

Subproject 22, Project MANITRA Invoice No. 2, Allotment 4-2502-10-001

1. Invoice No. 2 for Subproject 22 of Project MKULTRA is attached. This invoice is the final one to be submitted under Subproject 22 and when paid, constitutes complete payment of this project. It is requested that payment be made by two cashier's checks for \$205.33 and \$5,133.33 and out to the Manager of through Tas/Budget Officer by 16 August 1954.

2. The two invoices covering this Subproject aggregate \$8008.00 and represent the total expenditure to be made under this Subproject. It is requested, therefore, that the files on this Subproject be closed.

SIDERY CONTLIES Chief -- Chemical Division, TSS

Attachment: Invoice No. 2 Certifications

Distribution:
Addresses - Orig. & 2 w/a
TSS/FASB - 1
Comptroller - 1
TSS/CD - 2

I CERTIFY THAT FUTURE AND AWAILABLE:

OBLIGATION REFERENCE IN

00/108

CHARGE TO ALLOTMENT No.

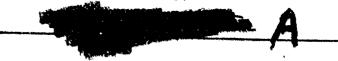
4-2502-10-001

AUG 6 ENT'O

AUTHORIZING OFFICER

H

O.M.T. CHECK#81205 IN THE AMOUNT OF \$5,235.05 RECEIVED. AUG 1 2 1951



## CERTIFICATIONS

(1) It is hereby certified that this is Invoice Bo. 2 applying to Subproject 22 of Project MINITERA, that technical performance by the Charles and accomplished in accordance with the mutual agreement reached with the Minited Management has not yet been made.

Dates		1		<i>i</i> .		· .
	4		-		GOTTLIE TSS/CD	_

(2) It is bereby certified that this invoice applies to Subproject 22 under Project NKULTRA which was duly approved and that the project has been carried out in accordance with the DD/P memorandum to DCI dated 3 April 1953 and the DCI memorandum to DD/A dated 13 April 1953.

Dates AUG o 1954

#### CERTIFICATE

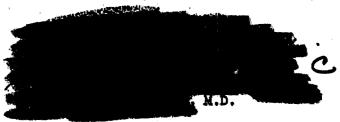
March 2, 1954

This is to certify that I have today received Cashier's check No. M138335 of the This in the amount of \$102.67.



March 2, 1954

This is to certify that I have today received Cashier's check No. M138334 of the the today received the the today received.



MEMORANDUM RECEIPT

FEB 18 ENTO

OATE

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

CHECK# MI3F334 IN THE AMOUNT OF \$256627

RECEIVED.

CHECK# IN THE AMOUNT OF \$256627

RECEIVED.

Please return \_\_\_\_\_\_ signed copy(iee) of this receipt

To \_\_\_\_\_\_\_ signed copy(iee) of this receipt

FORM NO. 36-85

MAR 1949 36-85

## 1 February 1954

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

TALE.

TSS/Bodget Officer

SUBJECT:

Invoice No. 1, Subproject 22, Project MXILLERA

1. Invoice No. 1 for Subproject 22, Project MXULTRA is attached. It is requested that payment be made by two coshier's checks unde out to the order of annual line in the amounts of \$2,566.67 and \$102.67.

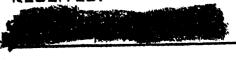
2. The checks should be sent to Chief, CD/TSS through TSS/Budget Officer by & February 1954.

SIDMEY GOPPLIES Chief Chemical Division, TSS

Attachments: Invoice Certifications

Distribution:
Addressee - Orig. & 2
Comptroller - 1
Exec. Sec'y., Res. Bd. - 1
TES/Budget - 1
TES/Registry - 1
TES/CD - 2

CHECK#4131334 IN THE AMOUNT OF \$3566.67



FEB 1 S ENT'O

\$ 3669.34

,

CHECK# 1138 335 IN THE AMOUNT OF \$ 103.67

FEB 1 S ENTE

#### INVOICE

28 January 1954

C

SECRET

## CERTIFICATIONS

(1) "It is hereby certified that this is Invoice No. 1 applying to approject 22 of Project MANITHA, that technical performance by a second-lished in occordance with the mutual agreement reached with that this bill is just and correct and that payment thereof has not yet been made.

Dates				
			SIDNEY GOTAL Chief, CD/TS	3**
22 under Proj is being carr dated 3 April	ect MULTA which ied out in secon 1957, the DCI :	that this invoice oh was duly approved ance with the DE memorandum to DO/A a DO/A dated 19 Ju	od and that the Premorandum ( dated 13 April	o DCI
FEB			Additional by	A
The second second			Research Di	rector"
(3) "It is h	eroby certified MKULTA has be	that the scope of	the program a	tostorque 1
22 of Project	RODINER DES	an approved		
W. FEB			10	
Dates	epenissen vistation nymethological		Exec. Sec'y.,	Res. Bi.
			, 1	•.
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	1	OBLIGATION B /2	15. 170264	<u> </u>

SECRET

28 January 1954

MEMORANDUM FOR: COMPTROLLER

Security of the second Finance Division

SUBJECT:

Project NEULTRA, Subproject 22

Under the authority granted in the mesorandum dated 13 April 1953 from the DCI to the DD/A, and the further authority granted The transfer was the second of in the memorandum dated 17 April 1953 from the DD/A to the Comp-ในที่ กับได้สาว เดิงเคาะสมาชที่ **สาม**เหมื<sub>่อ</sub>น troller on the subject, "DD/P-TSS Project MKHLTRA," and the memorandum dated 19 June 1953, from the DCI to the DD/A extending The real particular to the first the second of the second the authority to cover Fiscal Year 1954, Subproject 22 has been The American Comment of the State of the Sta approved, and \$8,008.00 of the over-all Project MAULIRA funds have and the first of the state of t been obligated to cover the subproject's expenses.

> SIDNEY COTPLIES Chief Chemical Division, TSS

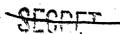
APPROVED FOR OBLIGATION OF PUNDS:

PROGRAM APPROVED : AND RECORDENDED:

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E	xec.	Sec'y.,	Res. 1	Bil.		٠,		Research	Director	
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Distribution: Addressee - Orig. & 2 Exec. Sec'y., Res. 2d. - 1 TSS/Eudget - 1 TSS/Registry - 1 755/CD - 2





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

E2 IMPDET: CL BY 187475

DRAFT/ 28 January 1954

MEMORANDUM FOR THE RECORD

SUBJECT:

Project MKULTRA, Subproject 22

- Subproject 22 is a continuation of Subproject 1 which had as its scope preliminary work on the isolation and characterization of the alkaloids of Impomea sidafolia Choisy (Rivea corym bosa) in order to determine their activities as agents affecting the central nervous system.
- The results of the preliminary study are such that a full program of research on this material is desirable. Dr. who conducted the preliminary work, has submitted the attached proposal to carry out this work as outlined by CD/TSS.
- ; will serve as cut-out for transfer of funds to the investigator. The estimated cost of the work according to the proposal is \$7,700.00 for one year. To this must be added 4% service charge for the ing to \$308.00. The total cost of this investigation for a period of one year, therefore, will not exceed \$8,008.00.
- has been granted a Top Secret Agency clearance and 📞 is fully capable of protecting the Government's interest in this project.

Chemical Division, TSS

APPROVED:

OF FUNDS:

PROGRAM APPROVED AND RECOMMENDED:

Exec. Sec'y., Res. Bd. Date: Cen 28 1554

Attachment: Proposal

. Research Director

Chief, Chemical Division, TSS

APPROVED FOR OBLIGATION

187475

7.772-10S

January 4, 1954

B



Dear Sir:

I am aware of the interest your Foundation has in supporting research related to physiologically active compounds. Recently I became interested in determining what is the active component(s) of the drug "Piule". My work together with the meager technical literature available on the subject convinces me that financial support will be necessary before I will be able to continue the investigation. I am, therefore, submitting to you a summary of the work completed on the problem to date, together with an estimate of the funds that will be needed to purchase equipment and supplies and to employ help.

University officials are aware of this request. If you see fit to support this research, I plan to employ one or two graduate students who will work part time on the problem while working toward the M.S. or Ph.D. degree.

My work in the field of plant alkaloids dates back to 1948. Most of this work was carried out at the University of My When I moved to the University in the fall of 1953, I found that no work in this field had been carried out here. As a result, very little of the necessary equipment is available. Departmental funds are available for some, but not all, of the necessary equipment and supplies. The funds requested for the first year of the investigation, therefore, include these.

Associate Professor

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

Summary of Work on "Piule"

The seed of a trailing vine which grows in Mexico and Central America has been used by natives of those regions since Ancient times as a narcotic. Although the plant has been classified by taxonomists of the Smithsonian Institute as Impomoea sidaefolia Choisy, a plant of the Convolvulaceae family, its seeds, because of their physiological activity, have been considered as one of the "peyotes". The most common example of a "peyote" drug is the button from the cactus, Anahlonium lewinii.

Until the work reported here, the only work carried out to determine the active constituents) of these seeds was that by C. G. Santesson of the Medico-Surgical Institute in Stockholm and reported in the Archiv der Pharmozie 275, 532-537, (1937). His experiments, which were conducted on small quantities of seed, indicate that a water extract of the crushed seed contained a glyco-alkaloid which had narcotic effect on frogs, mice and rabbits before and after acidic hydrolysis. The presence of sugars was determined by means of the Fehlings test. The evidence for reporting alkaloids was precipitates with reagents such as phosphomolybdic and phosphotungstic acids.

In the present investigation, which was carried out during a five week period at the

small quantities (15-60 g.) of the seed were used to WARNING NOTICE



repeat the work of Santesson and determine the best means of extracting the active constituent(s). Finally a 100 g. Commence of the commence of th sample of the seed, crushed to pass a 15 mesh sieve, was and the second of the second o extracted in a sohxlet with petroleum ether to remove oils. He factorists for the first the factorists of the first of the first of the factorists of the factoris The de-oiled seed was maxcerated with distilled water and the mixture centrifuged to separate the marc. This marc apparently was devoid of alkaloid or glycosides extractable with various polar and non-polar organic solvents. The r of end one of the wife aqueous extract was freed from most protein material by the use of trichloroacetic acid. The deproteinated extract was neutralized by means of ion exchange resins. effluent from the resin column was concentrated in vacuo resulting in the precipitation of more gummy material. The supernatant was clear, vescous, dark green and intensely bitter. It contained no free reducing sugars. Tests with alkaloidal reagents were inconclusive. Attempts to extract alkaloidal material from this solution using various solvents were unsuccessful. Emulsions interfered with the extraction in both neutral and basic solution. The aqueous solution was stirred with methanol, a procedure which removed most of the polysaccharides, which were present in large quantities. and decreased the viscosity of the aqueous solution. resulting aqueous-alcoholic solution was concentrated to remove methanol. It gave positive tests with all common alkaloidal reagents and negative tests for reducing sugars.

WARNING NOTICE

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A minute quantity of crystalline material formed in this aqueous solution after a day. This material has not been identified. The remainder of the solution 经营收证据 经收益 化二氯酚 医二氯酚 医二氯酚 was evaporated on a water bath, in a nitrogen atmosphere, without obtaining additional crystalline material. THE PROPERTY OF THE PROPERTY O residue was taken up in water and more polysaccharides precipitated with the addition of methanol. Repeating **美国企业的企业的企业的企业的企业** this procedure eventually removed all of the poly-15克克斯特,可以中国的基份表现的情况。例 saccharides. From the supernatant, after removal of polysaccharides, no crystalline material was obtained. Tests on this solution indicated the presence of alkaloids and the absence of reducing sugars. This solution also was intensely bitter, a crude indication of the presence of the active principle(s) of "Piule". والمتعارض والمنافرة No test animals were available at the time for physiologn garan ji Militan ji kata taliha 🥳 🕍 ical tests of various fractions. This solution was hydrolyzed with 2N H2SO4. A voluminous amount of precipitate resulted. The clear supernatant yielded excellent tests for alkaloids and reducing sugars.

paper chromatography was employed to confirm the presence of reducing sugars. The polysaccharides were hydrolyzed and the resulting solution, after neutralization, was subjected to paper chromatography. The results are incomplete; however, glucose, mannose and mylose appear to be the predominate monosaccharides present.

WARNING NOTICE



At this point work was suspended due to my change of positions.

# Proposal

Future plans call for the following.

- l. The use of larger quantities of the seed.
  (Originally only a small quantity was available, now there is a large quantity available.)
- 2. Considerable work on the use of ion exchange resins in order that this technique can be used on aqueous extracts of piule without the possibility of losing some of the active principles.
- 3. Work to be continued on the isolation of glycoalkaloid(s). There is some indication in this investigation that in addition to one or more glycoalkaloids there is also uncombined alkaloid.
- 4. Work to be continued on the identification of the sugars combined in glycoalkaloid moieties.
- 5. Test animals to be used to determine the presence of the active principle(s) in various fractions.
- 6. When the glycoalkaloid(s) or/and alkaloid(s) have been isolated work will be undertaken to determine their physiological activity on laboratory test animals, their physical and chemical properties including ultraviolet and infrared spectra.
- 7. If the alkaloid(s) cannot be identified as known alkaloid(s), work will be instituted to elucidate the structure.

It is estimated that this investigation will require from three to five years to complete.



5

# Funds Needed for One Year

Equipment (includes special equipment such DU spectrophotometer, centrifuge extractor, paper chromatography Kofler hot stage and small mill grinding seed.)	e, sonxlet equipment for \$2700	•
Materials (chemicals, solvents)	300	
Travel and meetings	200	
Analyses and tests	200	
Salary (senior investigator)	1600	
Salary (graduate assistant, 11 mo.)	1800	•
Laboratory help	100	
Miscellaneous	100	
Overhead to	••••	700
Total Overhead	<b>\$</b> 7000	plus overhead
Total	\$ 7,700.	00

Angust 20, 1954

Dear Dr.

This is to inform you that my former District number has been changed No collect calls will be accepted at this number. Sincerely,

16 January 199

MERCRANDIM FURS CONFIDELLER

AFIREITON:

A THE PARTY OF THE Timence Division

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Project MULTA, Subgraject 22

Moder the authority granted in the memoranhan dated 13 April. The second of the contract of 1953 from the DCI to the DD/A, and the further authority granted in the merorandum dated 17 April 1973 from the DD/A to the Comptroller on the subject, "ND/P-RSS Project MARLERA," and the me-morandum dated 19 June 1953, from the DCI to the DD/A extending The state of the control of the state of the the anthority to cover Fiscal Tear 1954, Subproject 22 has been approved, and \$8,008.00 of the over-all Project MAULIRA funds have bean chlimated to cover the subproject's expenses.

PECCHAM APPROVED AND RECOGNISED:

Essed See 'y., Res. Bd.

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APPROVED FOR CELICATION OF FUEDS:

Original signed -

esearch Director

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I CERTIFY THAT FLOUR ARE AVAILABLES

OBLIGATIO. .

02442-

CHARGE TO

4-2502-10

The State of the S

...ORIZING OFFICER



SO 2-1266 14 September 1953

MEMORANDUM FOR: Chief, CD/TSS

SUBJECT



The state of the s

- 1. Reference is made to our memorandum dated 29 May 1953, requesting a covert security clearance to permit TSS to utilize the Subject's personal knowledge in connection with a highly sensitive research problem incident to Project MKULTRA. The Subject will have access to TOP SECRET Information.
- 2. In accordance with the provisions set forth in the Director's Memorandum of 14 February 1949, entitled "Security and Operational Clearances", a covert security clearance is granted for the covert use of the Subject as described in your request as set forth in Paragraph 1, above.
- 3, The Subject is not to represent himself as, nor is he to be represented as, an employee of CIA.
- 4. Your attention is called to the fact that a covert security clearance does not constitute complete compliance with the provisions of CIA Regulation Therefore, if you should desire at a later date to change the status or use of this individual, a request for clearance to cover any proposed change should be subnitted to this office.
- 5. This clearance becomes invalid in the event the Subject's services are not utilized within 60 days of the date of this memorandum.

Maison & Security Officer DD/P/TSS

/dlb (14 September 1953)

Distribution:

Addressee - Orig. (SGottldbb, 1

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Security Information

28 Jan 5 1 year 28 Jan 50 4 2502-10-001 3 8.008.00 1 (12 55 / year) 2 6 3502-10-001 5 51200 5 Nu 5 V / 1 6 2502-10-001 6 188,00 1621-57 / W 8 2502-10-00 17:491.76 2400158 V 9-2572-15-90 7-49-30 June 59 1-30-15-69 12,029.6 7/54 266994 533866 14/54 533866 6 4 June 57 4125 34 1 4) Changer 8-2502-10-001 17-491-76 7 148-251 17-476-26 8 37/1 10,361.68 auth 38 June 59 72,027.68 72,047.68 ant 1 2 12 161 160 26 10