

MCULTRA

Sub-Project 47

| Description | Date: | Obligations | Expenditures | Balance |
|---------------|---------------|-------------|--------------|---------|
| | 1955 | | | |
| Subproject #1 | May 23 | 1500000 | | 1500000 |
| Service #1 | Apr 1 | | 1452400 | 41600 |
| " 2 | 19 SEP 1955 | | 41600 | |
| Service #2 | 2980310 | | | |
| | 116812 | | | |
| | 11680 - 54 55 | | | |
| | 3065522 " 56 | | | |

[Handwritten signature]

Project ~~MULTA~~, Subproject 47

PFRIFFER

Date Initiated: 24 March 1955

Date Expires: 1 June 1962

Funds-current year: \$30,740

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

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

~~CONFIDENTIAL~~



47-4

State of New Jersey

BUREAU OF RESEARCH IN NEUROLOGY AND PSYCHIATRY.

C/O NEW JERSEY NEURO-PSYCHIATRIC INSTITUTE

BOX 1000

PRINCETON, NEW JERSEY

HUMPHRY OSMOND, MRCS, LRCP, DPM
DIRECTOR

March 25, 1964

Dr. [REDACTED]

Dear [REDACTED]

Attached is our 1963-64 report^B and proposal for continued research support by the [REDACTED] for the coming year beginning June 1, 1964. We hope that the report and the proposal meet with the Board's approval so that you can advise us positively when you visit us in the near future.

I shall be in [REDACTED]^C on Saturday and Sunday, May 2nd and 3rd. I can report in on Friday, May 1st in regard to a possible conference if this is necessary.

Our financial report for the present grant year will be sent shortly after June 1, 1964.

Yours sincerely,

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

CCP:tt
enc.

475

Date 5 September 1963

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

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

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No N.A. Project Engineer A

Contractor Dr. C. C. Pfeiffer

Contract No Subproject 47 Task No N.A.

Type of Contract MKULTRA Date Initiated March 1955

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

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

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

Requirement: Internally generated in TSD.

SECRET

FINAL

Date 31 October 1963

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

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

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No N.A. Project Engineer ~~XXXXXXXXXX~~

Contractor Dr. C. C. Pfeiffer

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

Type of Contract MKULTRA Date Initiated March 1955

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

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

Status: Satisfactorily terminated. Contract replaced by MKULTRA 144

Requirement: Internally generated in TSD.

~~SECRET~~

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ACCOUNTING BY INDIVIDUAL
FOR ADVANCE

~~SECRET~~
(When Filled In)

47-6

SUBMITTED BY: William Subprozac, Jr VOUCHER NO. (Finance use only)

PERIOD OF ACCOUNTING: FROM 3 May 1962 TO 31 May 1963

NOTE: Follow Instructions on Reverse RECEIPTS DISBURSEMENTS

1. CASH ON HAND BEGINNING OF PERIOD \$ 2. VOUCHER DATE DESCRIPTION AMOUNT

18. RECEIPT NUMBER DATE DESCRIPTION

3 May 1962 William Advance See Attached Certification

1962 Invoice # 13 25,000.00

30. TOTAL EXPENSES \$ 25,000.00

4. REFUNDED MONEY/CASH CHECK MONEY ORDER

5. CASH ON HAND END OF PERIOD TOTAL TO ACCOUNT FOR \$ 25,000.00 TOTAL ACCOUNTED FOR \$ 25,000.00

1 CERTIFY FUNDS ARE AVAILABLE OBLIGATION REFERENCE NO. CHARGE ALLOTMENT NO. DATE SIGNATURE OF AUTHORIZING OFFICER

117 2125-1390-3902 STONEY CORP., DC/END DATE SIGNATURE OF PAYEE A

DATE SIGNATURE OF APPROVING OFFICER SIGNATURE OF CERTIFYING OFFICER SIGNATURE OF PAYEE

PREPARED BY: [Signature] REVIEWED BY: [Signature] SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION VOUCHER NO. 7-12

DESCRIPTION - ALL OTHER ACCOUNTS 13-33 34-38 STATION CODE 40-42 EXPEND CODE 43 FUND CODE 45-46 PAY PER. LIG. CODE 47-52 OBLIG. REF. NO. 53 GENERAL LEDGER NO. 58-57 ALLOT. OR COST ACCT. NO. 62-67 CR. NO. OR DEBIT CLASS

DESCRIPTION - ADVANCE ACCOUNTS 13-27 7/A NO. 26-33 7/B NO. 30-35 7/C NO. 36-39 7/D NO. 40-43 7/E NO. 44-47 7/F NO. 48-51 7/G NO. 52-55 7/H NO. 56-59 7/I NO. 60-63 7/J NO. 64-67 7/K NO. 68-71 7/L NO. 72-75 7/M NO. 76-79 7/N NO. 80-83 7/O NO. 84-87 7/P NO. 88-91 7/Q NO. 92-95 7/R NO. 96-99 7/S NO. 100-103 7/T NO. 104-107 7/U NO. 108-111 7/V NO. 112-115 7/W NO. 116-119 7/X NO. 120-123 7/Y NO. 124-127 7/Z NO. 128-131 7/AA NO. 132-135 7/AB NO. 136-139 7/AC NO. 140-143 7/AD NO. 144-147 7/AE NO. 148-151 7/AF NO. 152-155 7/AG NO. 156-159 7/AH NO. 160-163 7/AI NO. 164-167 7/AJ NO. 168-171 7/AK NO. 172-175 7/AL NO. 176-179 7/AM NO. 180-183 7/AN NO. 184-187 7/AO NO. 188-191 7/AP NO. 192-195 7/AQ NO. 196-199 7/AR NO. 200-203 7/AS NO. 204-207 7/AT NO. 208-211 7/AU NO. 212-215 7/AV NO. 216-219 7/AW NO. 220-223 7/AX NO. 224-227 7/AY NO. 228-231 7/AZ NO. 232-235 7/BA NO. 236-239 7/BB NO. 240-243 7/BC NO. 244-247 7/BD NO. 248-251 7/BE NO. 252-255 7/BF NO. 256-259 7/BG NO. 260-263 7/BH NO. 264-267 7/BI NO. 268-271 7/BJ NO. 272-275 7/BK NO. 276-279 7/BL NO. 280-283 7/BM NO. 284-287 7/BN NO. 288-291 7/BO NO. 292-295 7/BS NO. 296-299 7/BT NO. 300-303 7/BU NO. 304-307 7/BV NO. 308-311 7/BW NO. 312-315 7/BX NO. 316-319 7/BY NO. 320-323 7/BZ NO. 324-327 7/CA NO. 328-331 7/CB NO. 332-335 7/CC NO. 336-339 7/CD NO. 340-343 7/CE NO. 344-347 7/CF NO. 348-351 7/CG NO. 352-355 7/CH NO. 356-359 7/CI NO. 360-363 7/CK NO. 364-367 7/CL NO. 368-371 7/CM NO. 372-375 7/CN NO. 376-379 7/CO NO. 380-383 7/CP NO. 384-387 7/CQ NO. 388-391 7/CR NO. 392-395 7/CS NO. 396-399 7/CT NO. 400-403 7/CT NO. 404-407 7/CT NO. 408-411 7/CT NO. 412-415 7/CT NO. 416-419 7/CT NO. 420-423 7/CT NO. 424-427 7/CT NO. 428-431 7/CT NO. 432-435 7/CT NO. 436-439 7/CT NO. 440-443 7/CT NO. 444-447 7/CT NO. 448-451 7/CT NO. 452-455 7/CT NO. 456-459 7/CT NO. 460-463 7/CT NO. 464-467 7/CT NO. 468-471 7/CT NO. 472-475 7/CT NO. 476-479 7/CT NO. 480-483 7/CT NO. 484-487 7/CT NO. 488-491 7/CT NO. 492-495 7/CT NO. 496-499 7/CT NO. 500-503 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736-739 7/CT NO. 740-743 7/CT NO. 744-747 7/CT NO. 748-751 7/CT NO. 752-755 7/CT NO. 756-759 7/CT NO. 760-763 7/CT NO. 764-767 7/CT NO. 768-771 7/CT NO. 772-775 7/CT NO. 776-779 7/CT NO. 780-783 7/CT NO. 784-787 7/CT NO. 788-791 7/CT NO. 792-795 7/CT NO. 796-799 7/CT NO. 800-803 7/CT NO. 804-807 7/CT NO. 808-811 7/CT NO. 812-815 7/CT NO. 816-819 7/CT NO. 820-823 7/CT NO. 824-827 7/CT NO. 828-831 7/CT NO. 832-835 7/CT NO. 836-839 7/CT NO. 840-843 7/CT NO. 844-847 7/CT NO. 848-851 7/CT NO. 852-855 7/CT NO. 856-859 7/CT NO. 860-863 7/CT NO. 864-867 7/CT NO. 868-871 7/CT NO. 872-875 7/CT NO. 876-879 7/CT NO. 880-883 7/CT NO. 884-887 7/CT NO. 888-891 7/CT NO. 892-895 7/CT NO. 896-899 7/CT NO. 900-903 7/CT NO. 904-907 7/CT NO. 908-911 7/CT NO. 912-915 7/CT NO. 916-919 7/CT NO. 920-923 7/CT NO. 924-927 7/CT NO. 928-931 7/CT NO. 932-935 7/CT NO. 936-939 7/CT NO. 940-943 7/CT NO. 944-947 7/CT NO. 948-951 7/CT NO. 952-955 7/CT NO. 956-959 7/CT NO. 960-963 7/CT NO. 964-967 7/CT NO. 968-971 7/CT 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2024-2027 7/CT NO. 2028-2031 7/CT NO. 2032-2035 7/CT NO. 2036-2039 7/CT NO. 2040-2043 7/CT NO. 2044-2047 7/CT NO. 2048-2051 7/CT NO. 2052-2055 7/CT NO. 2056-2059 7/CT NO. 2060-2063 7/CT NO. 2064-2067 7/CT NO. 2068-2071 7/CT NO. 2072-2075 7/CT NO. 2076-2079 7/CT NO. 2080-2083 7/CT NO. 2084-2087 7/CT NO. 2088-2091 7/CT NO. 2092-2095 7/CT NO. 2096-2099 7/CT NO. 2100-2103 7/CT NO. 2104-2107 7/CT NO. 2108-2111 7/CT NO. 2112-2115 7/CT NO. 2116-2119 7/CT NO. 2120-2123 7/CT NO. 2124-2127 7/CT NO. 2128-2131 7/CT NO. 2132-2135 7/CT NO. 2136-2139 7/CT NO. 2140-2143 7/CT NO. 2144-2147 7/CT NO. 2148-2151 7/CT NO. 2152-2155 7/CT NO. 2156-2159 7/CT NO. 2160-2163 7/CT NO. 2164-2167 7/CT NO. 2168-2171 7/CT NO. 2172-2175 7/CT NO. 2176-2179 7/CT NO. 2180-2183 7/CT NO. 2184-2187 7/CT NO. 2188-2191 7/CT NO. 2192-2195 7/CT NO. 2196-2199 7/CT NO. 2200-2203 7/CT NO. 2204-2207 7/CT NO. 2208-2211 7/CT NO. 2212-2215 7/CT NO. 2216-2219 7/CT NO. 2220-2223 7/CT NO. 2224-2227 7/CT NO. 2228-2231 7/CT NO. 2232-2235 7/CT NO. 2236-2239 7/CT NO. 2240-2243 7/CT NO. 2244-2247 7/CT NO. 2248-2251 7/CT NO. 2252-2255 7/CT NO. 2256-2259 7/CT NO. 2260-2263 7/CT NO. 2264-2267 7/CT NO. 2268-2271 7/CT NO. 2272-2275 7/CT NO. 2276-2279 7/CT NO. 2280-2283 7/CT NO. 2284-2287 7/CT NO. 2288-2291 7/CT NO. 2292-2295 7/CT NO. 2296-2299 7/CT NO. 2300-2303 7/CT NO. 2304-2307 7/CT NO. 2308-2311 7/CT NO. 2312-2315 7/CT NO. 2316-2319 7/CT NO. 2320-2323 7/CT NO. 2324-2327 7/CT NO. 2328-2331 7/CT NO. 2332-2335 7/CT NO. 2336-2339 7/CT NO. 2340-2343 7/CT NO. 2344-2347 7/CT NO. 2348-2351 7/CT NO. 2352-2355 7/CT NO. 2356-2359 7/CT NO. 2360-2363 7/CT NO. 2364-2367 7/CT NO. 2368-2371 7/CT NO. 2372-2375 7/CT NO. 2376-2379 7/CT NO. 2380-2383 7/CT NO. 2384-2387 7/CT NO. 2388-2391 7/CT NO. 2392-2395 7/CT NO. 2396-2399 7/CT NO. 2400-2403 7/CT NO. 2404-2407 7/CT NO. 2408-2411 7/CT NO. 2412-2415 7/CT NO. 2416-2419 7/CT NO. 2420-2423 7/CT NO. 2424-2427 7/CT NO. 2428-2431 7/CT NO. 2432-2435 7/CT NO. 2436-2439 7/CT NO. 2440-2443 7/CT NO. 2444-2447 7/CT NO. 2448-2451 7/CT NO. 2452-2455 7/CT NO. 2456-2459 7/CT NO. 2460-2463 7/CT NO. 2464-2467 7/CT NO. 2468-2471 7/CT NO. 2472-2475 7/CT NO. 2476-2479 7/CT NO. 2480-2483 7/CT NO. 2484-2487 7/CT NO. 2488-2491 7/CT NO. 2492-2495 7/CT NO. 2496-2499 7/CT NO. 2500-2503 7/CT NO. 2504-2507 7/CT NO. 2508-2511 7/CT NO. 2512-2515 7/CT NO. 2516-2519 7/CT NO. 2520-2523 7/CT NO. 2524-2527 7/CT NO. 2528-2531 7/CT NO. 2532-2535 7/CT NO. 2536-2539 7/CT NO. 2540-2543 7/CT NO. 2544-2547 7/CT NO. 2548-2551 7/CT NO. 2552-2555 7/CT NO. 2556-2559 7/CT NO. 2560-2563 7/CT NO. 2564-2567 7/CT NO. 2568-2571 7/CT NO. 2572-2575 7/CT NO. 2576-2579 7/CT NO. 2580-2583 7/CT NO. 2584-2587 7/CT NO. 2588-2591 7/CT NO. 2592-2595 7/CT NO. 2596-2599 7/CT NO. 2600-2603 7/CT NO. 2604-2607 7/CT NO. 2608-2611 7/CT NO. 2612-2615 7/CT NO. 2616-2619 7/CT NO. 2620-2623 7/CT NO. 2624-2627 7/CT NO. 2628-2631 7/CT NO. 2632-2635 7/CT NO. 2636-2639 7/CT NO. 2640-2643 7/CT NO. 2644-2647 7/CT NO. 2648-2651 7/CT NO. 2652-2655 7/CT NO. 2656-2659 7/CT NO. 2660-2663 7/CT NO. 2664-2667 7/CT NO. 2668-2671 7/CT NO. 2672-2675 7/CT NO. 2676-2679 7/CT NO. 2680-2683 7/CT NO. 2684-2687 7/CT NO. 2688-2691 7/CT NO. 2692-2695 7/CT NO. 2696-2699 7/CT NO. 2700-2703 7/CT NO. 2704-2707 7/CT NO. 2708-2711 7/CT NO. 2712-2715 7/CT NO. 2716-2719 7/CT NO. 2720-2723 7/CT NO. 2724-2727 7/CT NO. 2728-2731 7/CT NO. 2732-2735 7/CT NO. 2736-2739 7/CT NO. 2740-2743 7/CT NO. 2744-2747 7/CT NO. 2748-2751 7/CT NO. 2752-2755 7/CT NO. 2756-2759 7/CT NO. 2760-2763 7/CT NO. 2764-2767 7/CT NO. 2768-2771 7/CT NO. 2772-2775 7/CT NO. 2776-2779 7/CT NO. 2780-2783 7/CT NO. 2784-2787 7/CT NO. 2788-2791 7/CT NO. 2792-2795 7/CT NO. 2796-2799 7/CT NO. 2800-2803 7/CT NO. 2804-2807 7/CT NO. 2808-2811 7/CT NO. 2812-2815 7/CT NO. 2816-2819 7/CT NO. 2820-2823 7/CT NO. 2824-2827 7/CT NO. 2828-2831 7/CT NO. 2832-2835 7/CT NO. 2836-2839 7/CT NO. 2840-2843 7/CT NO. 2844-2847 7/CT NO. 2848-2851 7/CT NO. 2852-2855 7/CT NO. 2856-2859 7/CT NO. 2860-2863 7/CT NO. 2864-2867 7/CT NO. 2868-2871 7/CT NO. 2872-2875 7/CT NO. 2876-2879 7/CT NO. 2880-2883 7/CT NO. 2884-2887 7/CT NO. 2888-2891 7/CT NO. 2892-2895 7/CT NO. 2896-2899 7/CT NO. 2900-2903 7/CT NO. 2904-2907 7/CT NO. 2908-2911 7/CT NO. 2912-2915 7/CT NO. 2916-2919 7/CT NO. 2920-2923 7/CT NO. 2924-2927 7/CT NO. 2928-2931 7/CT NO. 2932-2935 7/CT NO. 2936-2939 7/CT NO. 2940-2943 7/CT NO. 2944-2947 7/CT NO. 2948-2951 7/CT NO. 2952-2955 7/CT NO. 2956-2959 7/CT NO. 2

(When Filled In)

INSTRUCTIONS

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

CERTIFICATION

I have received in payment of invoice 137
for invoice 13, in the amount of \$25,000.00
as being such of the office of [unclear]
to be used by the certifying officer [unclear]

I further certify that [unclear] [unclear]
by the [unclear] have been received and that to the best
of my knowledge the funds [unclear] [unclear]
are for the [unclear] for [unclear]

25 July 1963

47-6



State of New Jersey

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

May 24, 1963

Dr. [REDACTED]

Dear Dr. [REDACTED]

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

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

Best regards.

Yours sincerely,

Carl C. Pfeiffer, M.D.

Head, Section on Neuropharmacology

CCP:tt

47-8

FINANCIAL REPORT

B



June 1, 1962 to May 31, 1963

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

Receipts \$25,000.00

Expenditures

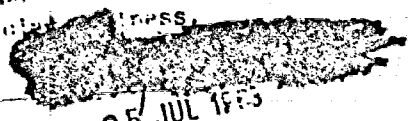
| | |
|-----------------|-------------|
| Salaries | \$19,635.54 |
| Wages | 3,546.49 |
| Expt'l Subjects | 878.00 |
| Travel | 939.97 |

Total \$25,000.00

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

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

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



A
Date: 25 JUL 1963

INV 13

Date 21 February 1963

Branch 25 Category Behavior Control (III)

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

Project Crypto MKULTRA Crypto Classification Unclassified

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

Contractor Dr. C. C. Pfeiffer

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

Type of Contract MKULTRA Date Initiated March 1955

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

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

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

REQUIREMENT SOURCE: Internally generated in TSD.

~~SECRET~~

~~SECRET~~

SECRET

47-10

Date 23 July 1962

Branch BB Category Behavior Control (11b)

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

Project Crypto MKULTRA Crypto Classification Unclassified

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

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

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

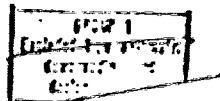
Type of Contract MKULTRA Date Initiated March 1955

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

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

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

SECRET



47-11

**NEW JERSEY MENTAL HEALTH
RESEARCH AND DEVELOPMENT FUND, INC.**

Trustees

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

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

June 1, 1961 to May 31, 1962

BUREAU OF RESEARCH IN NEUROLOGY AND PSYCHIATRY
SECTION ON PHARMACOLOGY
c/o New Jersey Neuro-Psychiatric Institute
Princeton, New Jersey

RECEIPTS:

| | |
|-----------------------|---------------------|
| November 1961 | \$ 15,370.00 |
| February 1962 | 15,370.00 |
| Total Receipts | \$ 30,740.00 |

EXPENDITURES:

| | |
|---------------------------|---------------------|
| Salaries & Wages | \$ 10,356.13 |
| Travel | 1,476.80 |
| Permanent Equipment | 16,794.62 |
| Consumable Supplies | 1,771.66 |
| All Other | 340.79 |
| Total Expenditures | \$ 30,740.00 |

I have examined and approved the submitted expenditures.

A

Chief
TSD/Biological Branch

H. P. David
Henry P. David, Secretary-Treasurer

Carl C. Pfeiffer
Carl, C. Pfeiffer, Ph.D., M.D.
Principal Investigator
Head, Section on Pharmacology

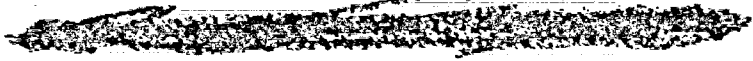
~~SECRET~~

INVOICE

For Services

\$26,000.00

B



CERTIFICATIONS

(1) It is hereby certified that this is Invoice 13 applying to Sub-project No. 13 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/BB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Biological Branch

Date: 23 April 1962

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

Research Director
XXXXXXXXXXXXXXXXXX

Chief, TSD

Date: _____

~~SECRET~~

97-1

RECEIPT

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

May 3, 1962, drawn on the [REDACTED]

E

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

B

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

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

E

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

B

A [REDACTED] Secretary
DATE: May 8, 1962

~~SECRET~~

Date: 12 April 1964

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

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

A

~~SECRET~~

Chief,
TSD/Biological Branch

APPROVED FOR OBLIGATION
OF FUNDS:

~~XXXXXXXXXXXX~~
Chief, TSD
TSC;

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

VERIFY THAT FUNDS ARE AVAILABLE
OBLIGATION FISCAL YEAR 1964
FUND TO WHICH CHARGED 2125-1390-3904

AUTHORIZED OFFICER

~~SECRET~~

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

47-15

DRAFT
12 April 1962

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA Subproject 47

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

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

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

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

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

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

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

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

^A [redacted]
Chief,
TSD/Biological Branch

APPROVED FOR
OBLIGATION OF FUNDS:

^A [redacted]
Chief, TSD

Date: 23 APR 1962

Distribution:
Original only
Attachment: Proposal & Budget

B




RESEARCH PROJECT APPLICATION

Grant Period June 1, 1962 through May 31, 1963

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

PLACE: Section on Pharmacology
Bureau of Research in Neurology and Psychiatry
New Jersey Neuro Psychiatric Institute
Box 1000
Princeton, New Jersey

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

CO-PRINCIPAL INVESTIGATOR:  M.D.

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

INTRODUCTION:

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

Current Status of the Pharmacology Unit

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

WARNING NOTICE:
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

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

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

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

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

integration of four leads, one from each lobe of a hemispheric. Also under construction is a quantitative spectral analyzer for use with the tape recorder in analyzing scalp EEG of humans as well as electrical measurements from implanted electrodes in cortex and deeper structures in brains of animals. Data will be entered on punch cards and processed by a digital computer. Target date for beginning calibration and standardization is June 1, 1962. These new approaches allow determination with great accuracy of effects of various classes of compounds and the interactions of such agents.

A Barber Colman gas chromatograph has been installed and a technician is being trained to operate it. This makes possible correlative studies of changes in brain constituents, changes in behavioral state, and electrophysiological data. This method is far more sensitive than previous techniques, and allows accurate measurements to be made from much smaller brain fractions. A Beckman pH meter and microburette have also been obtained for study of cholinesterase activity, since it appears that psychotomimetic effects frequently if not always involve atropine-like drug action (Pfeiffer, C.C., et al. Neurology, 9: 249-250, 1959)

Recent and current projects: These new techniques, together with the unique availability of human subjects both normal and abnormal, make possible a wide range of investigations on any class of compounds with action on the central nervous system. These can begin at the most basic level and move progressively to a level of sophistication beyond that of almost any other setting. Some idea of the directions currently being taken are indicated in recent and current work. Enclosed are reprints of publications during the past year. The following are also accepted for publication and will appear in the next few months: ~~_____~~, C

~~_____~~

[REDACTED]
[REDACTED]
[REDACTED] and Pfeiffer, C.C. Use of normal subjects

for testing drugs (Upjohn Conference), Clin. Pharmacol & Therap.

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

[REDACTED] and [REDACTED] and Pfeiffer will report on, Quantitative electroencephalographic analysis of the effects of lysergic acid diethylamide (LSD-25 and d-amphetamine in man. At [REDACTED]

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

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

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

WARNINGS
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

Research Proposals

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

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

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

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

B

Research Project Application - Pfeiffer and [redacted] C

Requested Budget

June 1, 1962 through May 31, 1963

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

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED



47-17

State of New Jersey

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


JOSEPH M. TOBIN, M. D.
DIRECTOR

March 2, 1962

Dr. 

B

Dear 

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

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

With best regards,

Yours sincerely,



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

CCP:mc

Att. (1)

B

Period Ending March 1, 1962

| <u>Personnel Salaries and Wages</u> | <u>Travel</u> | <u>Permanent Equipment</u> | <u>Consumable Supplies</u> | <u>Other</u> |
|-------------------------------------|---------------|----------------------------|----------------------------|--------------|
| \$1,148.40 | \$ 13.47 | \$1,182.44 | \$ 447.30 | \$ 45.35 |
| 1,070.80 | 65.09 | 3,418.78 | 205.55 | 4.00 |
| 665.40 | 102.94 | 1,259.65 | 147.71 | 56.39 |
| 3,492.00 | 304.61 | 773.83 | 157.71 | 35.05 |
| 130.37 | 621.13 | 1,095.82 | 654.93 | 123.94 |
| <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |
| \$6,506.97 | \$1,095.24 | \$7,730.52 | \$1,613.20 | \$264.73 |

Receipts \$30,740.00

Expenditures 17,210.66

Balance 13,529.34



47-17

State of New Jersey

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

JOSEPH M. TOBIN, M.D.
DIRECTOR


March 2, 1962

Dr. 

B

Dear 

B

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

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

With best regards,

Yours sincerely,

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

CCP:mc

Att. (1)

B

~~XXXXXXXXXX~~
 Period Ending March 1, 1962

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

Receipts \$30,740.00

Expenditures 17,210.66

Balance 13,529.34

NEW JERSEY MENTAL HEALTH
RESEARCH AND DEVELOPMENT FUND, INC.

447
47-18

Trustees

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

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

October 24, 1961

B
D
C
[REDACTED]

Dear Dr. [REDACTED] C

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

Yours sincerely,

H. P. David

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

HPD:cf

cc: Dr. Carl Pfeiffer

47-19

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Treasurer's Check No. 184354, dated July 26, 1961, drawn on the [redacted] in the amount of \$1,229.60, payable to the [redacted]

Treasurers Check No. 267969, dated July 26, 1961, drawn on the [redacted] in the amount of \$30,740.00, payable to the [redacted]

[redacted]

Date: 9-18-61

30740
122960

318600

~~SECRET~~ ^B ^{GRANT}

to Carl C. Pfeiffer, Ph.D., M.D.
June 1, 1960 to May 31, 1961
with New Jersey Mental Health Research and Development Fund as the Recipient

Receipts

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

Expenditures

| | |
|-----------------------------------|-------------|
| Laboratory equipment and supplies | \$38,632.64 |
| Office equipment and supplies | 6,018.57 |
| Salaries and wages | 2,888.86 |
| Travel | 1,555.38 |
| Books | 402.55 |
| Total expenditures | \$49,498.00 |

~~SECRET~~ ^C

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

I have examined and approved the
expenditures.

Carl C. Pfeiffer, Ph.D.

^A

~~SECRET~~

Date: 8/30/61

26-28

47-21

NEW JERSEY MENTAL HEALTH
RESEARCH AND DEVELOPMENT FUND, INC.

Trustees

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

Address Correspondence to:

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

May 12, 1961

Dr. [REDACTED]
Director

[REDACTED] B

Dear Dr. [REDACTED]

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

Yours sincerely,

H. P. David

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

HPD/lm

CC: Dr. Carl C. Pfeiffer
Dr. Joseph Tobin

12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA

TSD/Budget Officer

SUBJECT

MKULTRA, Subproject 47, Invoice No. 12
Allotment Z125-1390-3902

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

Cashier's check in the amount of \$30,740.00 drawn on a
(E) ██████████, bank.

Cashier's check in the amount of \$1,229.60 drawn on a
(E) ██████████, bank.

Checks should be made payable to the (B) ██████████
██████████

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

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

(A) ██████████
Chief
TSD/Research Branch

Attached:
Invoice & Certifications

Distribution:
Orig & 2 - Addressbook

1 - TSD/FASS
2 - TSD/RB

TSD/RB: (A)

47-22

~~SECRET~~

INVOICE

For Services

\$31,969.60



CERTIFICATIONS

(1) It is hereby certified that this is Invoice 12 applying to sub-project No. 41 of MXULTRA, 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:

47

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

Research Director

Date:

~~SECRET~~

~~SECRET~~

47-24

1 June 1961

MEMORANDUM FOR: COMPTROLLER
 ATTENTION : Finance Division
 SUBJECT : MKULTRA, Subproject 47, Additional
 Authorization No. 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 47 has been approved and \$31,869.60 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 2125-1390-3902.

A

~~REDACTED~~

Chief,
TSD/Research Branch

APPROVED FOR OBLIGATION
OF FUNDS:

A ~~REDACTED~~

Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE
 OBLIGATION REFERENCE NO. 117
 CHARGE TO ALLOTMENT NO. 2125-1390-3902

AUTHORIZING OFFICER

Date: 12 JUL 1961

Distribution:
 Orig & 2 - Addressee
 1 - TSD/OC
 1 - TSD/FASS
 2 - TSD/RB

~~SECRET~~

PROPOSAL

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

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

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

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

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

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

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

47-27

12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA : TSD/Budget Officer

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

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

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

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

Checks should be made payable to the [redacted] B

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

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

A
[redacted]
Chief
TSD/Research Branch

Attached:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

[Handwritten signature]

7595

47-29

~~SECRET~~

26 April 1961

MEMORANDUM FOR: Chief, Finance Division

VIA : TSD/Budget Officer

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

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

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

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

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

A

~~SECRET~~
Chief
TSD/Research Branch

Attachment:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

~~SECRET~~

7596

PROPOSAL

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

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

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

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

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

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

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

~~TOP SECRET~~

DRAFT
1 June 1961

47-31

MEMORANDUM FOR: THE RECORD
SUBJECT: MKULTRA Subproject 47

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

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

~~TOP SECRET~~

~~TOP SECRET~~ 47310

Date: June 1977
E2 IN DET; CL BY 187475

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

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

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

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

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

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

[redacted signature]

Chief,
TSD/Research Branch

APPROVED FOR
OBLIGATION OF FUNDS:

[redacted signature]

Research Director

Date: 30 JUL 1977

Attachments:
Proposal & Budget

Distribution:
Original Only

~~TOP SECRET~~
Declassify to: CONFIDENTIAL
by authority of: 187475
Date: June 1977
E2 IN DET; CL BY 187475

47-31

PROPOSAL

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

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

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

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

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

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

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

Requested Budget
June 1, 1961 thru May 31, 1962

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

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

5/61

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOL

47-32

RECEIPT

Receipt is hereby acknowledged of the following two checks:

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

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

C [redacted]
Date: 13 July '60
J. I.

47-33

~~SECRET~~

29 June 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

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

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

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

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

Each check should be made payable to the [REDACTED]

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

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

A [REDACTED]
Chief
TSD/Research Branch

Attachment:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

1 - TSD/FASS
2 - TSD/RB

~~SECRET~~

~~SECRET~~

47-38

INVOICE

For Services

\$51,477.92

B



CERTIFICATIONS

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

Chief, TSD/Research Branch

Date: _____

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

Research Director

Date: _____

~~SECRET~~

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

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

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

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

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


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

CONFIDENTIAL

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

47-34

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

A 
Chief
TSD/Chemical Branch

APPROVED FOR OBLIGATION
OF FUNDS:

 A
Research Director

Date: 6/15/60

Attachment:
Proposal & Budget

Distribution:
Original only.

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

~~TOP SECRET~~



RESEARCH PROJECT APPLICATION

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

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

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

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

INTRODUCTION: The ~~██████████~~^B has aided the research studies of the principal investigator for more than ten years, during which time many notable advances have been accomplished.

At present the ~~██████████~~^C supports the search for new hallucinogens (chemically simpler than LSD-25). These are synthesized by ~~██████████~~^C tested in animals and in vitro systems and then cautiously tested in man. ~~██████████~~^C is taking a leave of absence next year and will work in 1961 as head of medicinal chemistry in the ~~██████████~~^B. His synthetic work will continue in 1961, and in 1960-1961 we will test the backlog of compounds already synthesized. The grant to Emory will terminate as of May 31, 1960, which is the close of the present grant year. Other funds are available at Emory to continue the testing of the ~~██████████~~^C compounds at the Atlanta Federal Penitentiary under the direction of ~~██████████~~^C, M.D. from the period June 1, to December 31, 1960. By this time the human testing will be organized and progressing in New Jersey under the direction of the principal investigator. On July 1, 1961 ~~██████████~~^B will have completed his last six months of a split internship and will join the research team in the New Jersey location.

RESEARCH PROPOSALS:

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

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

~~REDACTED~~
Research Project Application - Pfeiffer

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

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

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

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

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

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

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

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

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

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

B

47-34

page 3

Research Project Application - Pfeiffer

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

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

A. The Schizophrenias (assuming a heterogeneous clinical entity)

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

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

B ~~REDACTED~~
Research Project Application - Pfeiffer

47-34

B. Depressive psychoses

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

C. Manic psychoses

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-34

Research Project Application - Pfeiffer

BUDGET

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

Equipment

| | | |
|---|--|----------|
| 2 Electrified conditioning cages for animals @ \$250.00 | | 500.00 |
| 1 Constant intravenous infusion pump | | 350.00 |
| 1 Polygraph Grass 4 channel with stimulator and transducers | | 4,600.00 |

Consumable Supplies

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

\$49,498.00

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

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

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-36

EDDY UNIVERSITY



B

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

Summary of Receipts and Expenditures for the Period

June 1, 1959 through May 31, 1960

B

Received from ~~██████████~~ 1959-60

\$48,377.50

*DIRECT EXPENDITURES:

| | |
|---------------------------|-------------|
| Personnel | \$23,359.39 |
| Fellowships | 7,300.00 |
| Human Subjects | 3,310.00 |
| Travel | 2,919.36 |
| Equipment | 4,005.68 |
| Expendable Supplies | 2,773.99 |
| Total Direct Expenditures | \$43,668.42 |
| Indirect Costs | 4,366.84 |
| TOTAL EXPENDITURES | \$48,035.26 |

*See attached schedules

Approved:

EDDY UNIVERSITY

Carl C. Pfeiffer, M.D.
Project Director

Chief Accountant

I have examined and approved the submitted expenditures.

A



Chief
COS/Chemical Division

Date:

MARY UNIVERSITY

B



Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

PERSONNEL

Employee

Position

Amount

| | |
|---------------------|------------|
| Research Assistant | \$ 2242.00 |
| Research Assistant | 3630.00 |
| Instructor | 300.00 |
| Assistant Professor | 300.00 |
| Assistant Professor | 8916.58 |
| Associate Professor | 900.00 |
| Research Assistant | 1040.00 |
| Research Technician | 2240.44 |
| Assistant | 13.95 |
| Research Technician | 1075.00 |
| Technician | 99.96 |
| Research Technician | 1050.00 |
| Animal Attendant | 390.00 |
| Assistant | 669.00 |

Annuity--

Social Security

14.88
 477.58
\$ 23359.39

FELLOWSHIPS

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

Human Subjects

\$ 3310.00

C

C



47-36

FIORY UNIVERSITY



Department of Pharmacology

EQUIPMENT

| <u>ITEMS</u> | <u>VO. NO.</u> | <u>AMOUNT</u> |
|---|----------------|--------------------|
| Film badge service | SJ-7-49 | \$ 52.75 |
| Refund of customs | 56,030 8-31-59 | (43.09) |
| Parts for typewriter & film editor | 85143 | 68.96 |
| Freight | 85723 | 4.92 |
| Chair | 85119 | 23.25 |
| Dynamometer | 82584 | 91.39 |
| Auto calculator | 92866 | 1,009.40 |
| Battery booster | 92975 | 11.31 |
| Spectrophotometer | 94485 | 1,000.00 |
| Vacuum cleaner | 94506 | 36.02 |
| Electroencephalographic Instrumentation aids | 99829 | 1,750.77 |
| | Total- | \$ <u>4,005.68</u> |

B

Department of Pharmacology
 Dr. Carl C. Pfeiffer, Director

SUPPLIES

| <u>ITEM</u> | <u>VO. NO.</u> | <u>AMOUNT</u> |
|---------------------------------------|----------------|---------------|
| Services rendered | 76391 | \$ 18.00 |
| Reprints | 76733 | 57.68 |
| Necoles | 767377 | 3.71 |
| Reprints | 76923 | 68.60 |
| Pharmaceutical supplies | SJ-6-70 | 7.32 |
| Preparing infrared absorption spectra | 77681 | 6.00 |
| Book | 78670 | 5.41 |
| Statistical tables | 78689 | 4.39 |
| Book | 79170 | 8.93 |
| Medical illustrations | JE 781 | 59.50 |
| Photocopy | SJ-7-50 | 1.00 |
| Misc. supplies | 79354 | 7.12 |
| Saws, saw sharpened | 80177 | 11.64 |
| Reprints | 80709 | 33.90 |
| Mold release | 80745 | 5.84 |
| Office supplies | SJ-8-65 | 8.80 |
| Multilith service | SJ-8-71 | 33.63 |
| Multilith service | SJ-8-71 | 82.25 |
| Pipe | SJ-8-104 | 2.42 |
| Book | 81761 | 5.34 |
| Pharmaceutical supplies | SJ-9-26 | 20.34 |
| Electrodes, potassium hydroxide | 82487 | 37.29 |
| Reprints | 82828 | 10.40 |
| Chemicals | 82853 | 15.60 |
| Graph sheets | 83304 | 9.57 |
| Book | 83425 | 20.39 |
| Freight | 83986 | 9.94 |
| Medical illustrations | JE-10-82 | 6.00 |
| Books | 84372 | 13.91 |
| Chemicals | 84941 | 13.92 |
| Filter pump, condenser and fittings | 855575 | 52.53 |
| Medical illustrations | JE-11-52 | 9.00 |
| Medical illustrations | JE-12-43 | 16.00 |
| Glutamine | 87086 | 19.57 |
| Cleaning supplies | SJ-12-79 | 17.51. |
| Misc. supplies | 87516 | 3.62 |
| Long distance telephone | SJ-12-74 | 2.30 |
| Electrodes | 88111 | 46.30 |
| Hemolots | 88170 | 12.36 |

(continued on page 2)

| <u>ITEM</u> | <u>VO. NO.</u> | <u>AMOUNT</u> |
|-------------------------|----------------|---------------|
| Reprints | 88860 | 32.09 |
| Pharmaceutical supplies | SJ-1-82 | 18.20 |
| Misc. supplies | 91227 | 1.85 |
| Reprints | 91531 | 10.67 |
| Copper tubing | SJ-2-84 | 6.73 |
| Medical illustrations | JE-2-43 | 76.50 |
| Two chimpanzees | SJ-2-42 | 300.00 |
| Pharmaceutical supplies | SJ-2-79 | 53.75 |
| Long distance telephone | SJ-2-48 | 1.90 |
| Misc. supplies | 92323 | 10.50 |
| Misc. supplies | 92914 | 39.82 |
| Plugs, receptacles | 92939 | 64.40 |
| Flasks, chemicals | 92989 | 22.25 |
| Rabbits | 93105 | 51.50 |
| Ice | 93217 | 19.78 |
| Photo supplies | 93592 | 73.93 |
| Medical illustrations | JE-3-43 | 77.25 |
| Long distance telephone | SJ-3-62 | 14.45 |
| Pharmaceutical supplies | SJ-3-64 | 63.21 |
| Misc. supplies | 93919 | 24.15 |
| Drugs, chemicals | 94055 | 63.91 |
| Rabbits | 94076 | 77.25 |
| Heparin NA | 94132 | 13.57 |
| Keyort cards | 94384 | 13.34 |
| Ice | 94394 | 20.62 |
| Chemicals | 94402 | 176.58 |
| Bar | 94448 | 5.57 |
| Chromosorb | 94449 | 8.61 |
| Needles | 94504 | 7.67 |
| Chemicals | 94559 | 15.06 |
| Graph paper | 95033 | 9.89 |
| Plexiglos | 95045 | 18.99 |
| Publication | 95169 | 2.49 |
| Misc. supplies | 95187 | 6.00 |
| Rabbit pellets | 95201 | 34.18 |
| Rabbits | 95217 | 25.75 |
| Animal food | 95381 | 29.36 |
| Publication | 95437 | 5.39 |
| Misc. supplies | SJ-4-61 | 4.72 |
| Animal feeders | SJ-4-67 | 38.47 |
| Long distance telephone | SJ-4-54 | 4.65 |
| Pharmaceutical supplies | SJ-4-69 | 7.42 |
| Ice | 95837 | 24.91 |
| Syringes | 95876 | 10.30 |
| Knife blades | 95923 | 4.24 |
| Misc. supplies | 95992 | 3.00 |
| Drying jar | 96000 | 20.19 |

| <u>ITEM</u> | <u>VO. NO.</u> | <u>AMOUNT</u> |
|------------------------|----------------|--------------------|
| Cylinders, beakers | 95013 | \$ 71.18 |
| Mice | 95488 | 101.17 |
| Magazine bound | 95637 | 34.76 |
| Animal food | 95700 | 78.28 |
| Formica, glue, nails | 95778 | 22.97 |
| Ice | 96883 | 10.07 |
| Ice | 97302 | 10.29 |
| Animal feeders | SJ-5-78 | 7.84 |
| Needles | 98253 | 1.92 |
| Overhauling typewriter | 95012 | 19.50 |
| Needles | 99308 | 9.59 |
| Dry ice | 99476 | 20.05 |
| Animal feeders | SJ-580 | 1.08 |
| | Total | \$ <u>2,773.99</u> |

47-37

EMORY UNIVERSITY
ATLANTA 22, GEORGIA

DIVISION OF BASIC HEALTH SCIENCES

March 28, 1950

OFFICE OF THE DIRECTOR

A
B
[REDACTED]

A Dear [REDACTED]:

Attached you will find our research proposal for the year 1950-1961. We hope your reviewing board will look favorably on this application.

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

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

Yours sincerely,

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

CCP:cw

EMORY UNIVERSITY
EMORY UNIVERSITY, GEORGIA

47-38

DIVISION OF BASIC HEALTH SCIENCES

November 20, 1959

OFFICE OF THE DIRECTOR

A [REDACTED]
B [REDACTED]

A Dear [REDACTED]

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

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

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

Yours sincerely,

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

CCP:cw

cc: [REDACTED] C

BUDGET REPORT - ~~CONFIDENTIAL~~

47-38

AS OF: November 18, 1959

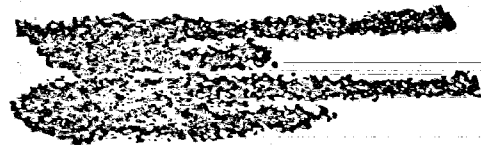
| ACCOUNT | TOTAL AMOUNT | PAYMENTS \$(Total Encumbrance) | BALANCE | OUTSTANDING ENCUMBRANCES | UNENCUMBERED BALANCE |
|------------------------|--------------|-----------------------------------|-----------|--------------------------|----------------------|
| 9129-03 PERSONNEL | 22,000. | 20,994. |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

47-39

EMORY UNIVERSITY
EMORY UNIVERSITY, GEORGIA

OFFICE OF THE CONTROLLER

October 5, 1959



Gentlemen:

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

Kindly inform us if this report is not satisfactory.

Very truly yours,

Ralph C. Davis
Ralph C. Davis
Chief Accountant

RCD:dp
Encls:
cc: Dr. C. C. Pfeiffer

EMORY UNIVERSITY

47 - 39

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

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

Balance on hand 5-31-58
Received from Geschickter Fund 1958-59

\$ 2,156.98
48,202.00
50,358.98

Direct Expenditures:

| | |
|-------------------------------|--------------|
| Personnel | \$ 24,880.12 |
| Fellowships | 7,200.00 |
| Human Subjects | 2,078.00 |
| Travel | 707.01 |
| Equipment | 9,703.39 |
| Expendable Supplies | 2,318.30 |
| Total Direct Expenditures | \$ 46,886.82 |
| Contribution to Indirect Cost | 4,578.18 |
| Total Expenditures | |

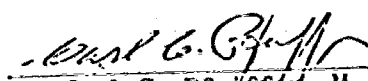
\$ 51,465.00

Overdraft as of 5-31-59
(To be absorbed by Emory University)


(\$ 1,106.02)
Overdraft

* See attached schedules

APPROVED:



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

EMORY UNIVERSITY


Ralph C. Davis
Chief Accountant

I have examined and approved the submitted
expenditures.

A


Chief
ISS/Chemical Division

Dated 15 June 1959

47-39

EMORY UNIVERSITY

B



Department of Pharmacology


Dr. Carl C. Pfeiffer, Director

PERSONNEL

Employee

Position

Amount

| | |
|--|-------------|
| Research Professor | \$ 2,400.00 |
| Secretary | 875.00 |
| Research Assistant | 3,975.00 |
| Assistant Professor | 7,916.60 |
| Instructor | 300.00 |
| Technician Specialist | 75.00 |
| Research Assistant | 1,200.00 |
| Research Technician | 600.00 |
| Assistant Professor | 225.00 |
| Consultant | 2,025.00 |
| Visiting Associate Professor | 2,100.00 |
| Student Assistant | 526.50 |
| Student Assistant | 1,497.75 |
| Student Assistant | 765.85 |
| Social Security | 387.26 |
| Annuity-Dr.  | 11.16 |

Total Personnel \$24,880.12

FELLOWSHIPS

| | |
|--------|-----------|
| Fellow | \$ 300.00 |
| Fellow | 300.00 |
| Fellow | 3,300.00 |
| Fellow | 3,300.00 |

Total Fellowships \$ 7,200.00

Human Subjects

\$2,076.00

I have examined and approved the submitted expenditures.

A



Chief

TSS/Chemical Division

Date: 15 December 1959

47-39

EMORY UNIVERSITY

B



Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

TRAVEL

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

I have examined and approved the submitted expenditures.

A



TCS/Chemical Division

Date: 15 December 1959

EMORY UNIVERSITY

47 - 39

B

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

EQUIPMENT

| <u>ITEM</u> | <u>AMOUNT</u> |
|--|--------------------|
| Freight | \$ 5.73 |
| Hot Plates | 61.80 |
| Electric Clock | 10.82 |
| Freight | 5.43 |
| Dynamometer recorder | 776.78 |
| Carton Office Machinery | 29.10 |
| Freight | 20.50 |
| Aerograph with accessories | 827.86 |
| Freight | 29.43 |
| Freight | 16.54 |
| Electroencephalograph with accessories | 6,242.83 |
| Metal Cabinet | 4.19 |
| Service charge | 25.00 |
| Semimicro polarimeter tube | 30.90 |
| Thermistemp Telethermometer | 91.67 |
| Integrateur Electronique, Scientific Apparatus | 312.39 |
| Integrater for Electronephalograph | 1,208.77 |
| Freight | 3.65 |
| Total Equipment | \$ <u>9,703.32</u> |

I have examined and approved the submitted expenditures.

A

Chief
TSS/Chemical Division

Dated 15 December 1959

EMDRY UNIVERSITY

47-39

B

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

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

I have examined this statement and find it correct.
Continued next column.

Continued to page 2

A

Date: 15 9 1950
TSC/Chemical Division

47-40

RECEIPT

Receipt is hereby acknowledged of the following two checks:

E Official Check No. G35572, dated 3 September 1959, drawn on
~~██~~, in the amount of
\$48,378.00, payable to the ~~██~~ B

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

~~██~~ C

Date: 10 Sept 59

~~SECRET~~

47-41

24 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

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

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

E Cashier's check in the amount of \$48,378.00, drawn
on a ~~XXXXXXXXXX~~

E Cashier's check in the amount of \$1,935.12, drawn
on a ~~XXXXXXXXXX~~

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

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

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

A ~~XXXXXXXXXX~~
Chief
TSS/Chemical Division

Attachment:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

1 - TSS/FASB
2 - TSS/CD
TSS/CD/~~XXXXXXXXXX~~ A

~~SECRET~~

~~SECRET~~

47 - 41

INVOICE

For Services

\$50,313.12



B

CERTIFICATIONS

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

Chief, TSS/Chemical Division

Date: _____

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

Research Director

Date: _____

~~SECRET~~

117-11

~~SECRET~~

12 July 1961

MEMORANDUM FOR: Chief, Finance Division

VIA TSD/Budget Officer

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

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

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

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

Checks should be made payable to the

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

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

Cafef
TSD/Research Branch

Attached:
Invoice & Certifications

CHECK # 267789 RECEIVED AMOUNT OF \$30,740.00

Distribution:
Orig & 2 - Addresses

- 1 - TSD/FASS
- 2 - TSD/RB

CHECK # 11757 RECEIVED AMOUNT OF \$1,229.60

TSD/RB

447-43

RECEIPT

Receipt is hereby acknowledged of the following:

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

Official Check No. G 33736, dated 2 July 1959, drawn on
the [REDACTED] in the amount of
\$1,285.39, payable to the [REDACTED] - B

Date: 7/13/59 - C

29 June 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA TSD/Budget Officer

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

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

Cashier's check in the amount of \$49,498.00, drawn
on ~~████████████████████~~

Cashier's check in the amount of \$1,979.92, drawn
on ~~████████████████████~~

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

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

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

CHECKS 4278 IN THE AMOUNT OF \$1979.92
RECEIVED 12 JUL 1960

Chief
TSD/Research Branch

Attachments:
Invoice & Certifications

Distributions:
Orig & 2 - Addressee

1 - TSD/FASS
1 - TSD/BB

CHECKS 4287 IN THE AMOUNT OF \$49498.00
RECEIVED 12 JUL 1960

I CERTIFY THAT FUNDS ARE AVAILABLE

CHIEF, FINANCE DIVISION
CHANGE TO ALLOTMENT NO. 0525-1009-4902

AUTHORIZING OFFICER

47-47

25 June 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

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

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

A [Redacted]
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS

[Redacted]

A

I CERTIFY THAT FUNDS ARE AVAILABLE
ORIGINATION REFERENCE NO. 2736
CHANGE TO ALLOTMENT NO. 9-2502-75 402
1 JUL 1 1959

Research Director

AUTHORIZING OFFICER

Date: 30 JUN 1959

Distribution:

Orig & 2 - Addressee

1 - TSS/OC

1 - TSS/FASB

2 - TSS/CD

SECRET

41-47

~~SECRET~~

24 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA TSS/Budget Officer

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

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

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

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

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

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

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

[redacted signature] Chief, TSS/Chemical Division

CHECK # 63572
RECEIVED 9/1/59

Attachment: Invoice & Certifications

Distribution: Orig & 2 - Addressee

[redacted signature] A
SECRET

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

E2 IMPDET, CL BY 187475

47-50

DRAFT/ [REDACTED] A
25 June 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 47

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

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

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

B

[REDACTED] as a cut-out.

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

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

E2 IMPDET, CL BY 187475

~~TOP SECRET~~

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

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

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

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

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

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

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

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

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

~~TOP SECRET~~

47-50

E2 IMPDET; CL BY 187475

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

A



Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS:

 A
Research Director

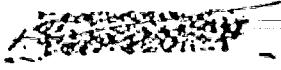
Date: 6/27/59

Attachment:
Budget

Distribution:
Original only

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

E2 IMPDET; CL BY 187475



47-50

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

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

Personnel -

C {

[REDACTED]

[REDACTED]

\$8300.00
4380.00
USPHS Grant

Equipment
Travel
Consumable Supplies

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

Indirect cost - 10%

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

Personnel -

C
C

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

\$3000.00
3000.00
3000.00
3000.00
1800.00
4000.00
500.00

Equipment
Consumable Supplies
Travel

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

Indirect cost - 10%

Total of both projects - \$48,378.00

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-50

PROPOSED RESEARCH BUDGET

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

Carl C. Pfeiffer

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-51

23 June 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

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

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

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

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

Each check should be made payable to the [redacted]

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

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

[redacted]
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

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

I CERTIFY THAT FUNDS ARE AVAILABLE 30 JUN 1959
OBLIGATION REFERENCE No. 47P
CHECK TO ALLOTMENT No. 8-2502-10-001

AUTHORIZED SIGNATURE

CHECK RECEIVED FOR THE AMOUNT OF \$32,134.67 CHECK # 61374 FOR THE AMOUNT OF 01253

[redacted]

~~SECRET~~

47-51

INVOICE

For Services

\$33,420.06

B

CERTIFICATIONS

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

Chief, TSS/Chemical Division

Date: _____

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

Original signed by

A

Research Director

Date: _____

29 JUN 1953

~~SECRET~~

47-52

SECRET
(When Filled In)

CONFIDENTIAL FUNDS POSTING VOUCHER

VOUCHER NO. 7-12

DATE 2-6

VOUCHER NO. 7-12

| DESCRIPTION-ALL OTHER ACCOUNTS 13-33 | | DESCRIPTION-ADVANCE ACCOUNTS 13-37 | | 28-33 PUN. ORDER NO. | 24-39 STATION CODE | 40-42 EXPEND. CODE | 45-48 PAY PER. L.O. CODE | 47-52 OBLIG. REF. NO. | 53 CA LEDGER ACCT. NO. | 54-57 GENERAL LEDGER ACCT. NO. | 59-67 ALLOT. LEDGER ACCT. NO. | 68-70 DUC DATE | 71-80 AMOUNT |
|--------------------------------------|--|------------------------------------|--------------------|-------------------------|--------------------------|--------------------------|--------------------------------|-----------------------------|---------------------------------|---|-------------------------------------|----------------------|-----------------|
| | | 32-33 PROJECT NO. | 34-35 PROP. NO. | 36-37 L.O. CODE | 38-39 ACCT. NO. | 40-41 CLASS | 42-43 OBJECT | 44-45 CLASS | 46-47 DEBIT | 48-49 CREDIT | | | |
| SUBB 47-1-1-1-1-1 | | | | 948 | 6001 | 15210001 | 179 | 3-12-2006 | | | | | |
| MATERIALS | | | | | | | | | | | | | 2,154.00 |
| MATERIALS | | | | | | | | | | | | | 1,285.35 |
| | | | | | | | | | | | | TOTALS | |
| EXPLANATION OF ENTRY | | | | | | | | | | | | | |
| See attached | | | | | | | | | | | | | |

DATE PREPARED BY _____ DATE REVIEWED BY _____

DATE CERTIFIED FOR PAYMENT OR CREDIT _____

SIGNATURE OF CERTIFYING OFFICER _____

SECRET

FORM 2-58 606 USE PREVIOUS EDITIONS. (10-48)

B

EMORY UNIVERSITY

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

I have examined and approved the submitted expenditures.



A

Chief

TSS/Chemical Division

Date: 5 November 1959

47-53

| ITEM | AMOUNT | ITEM | AMOUNT |
|----------------------------|--------|-------------------------|--------|
| Chemicals | 11.33 | Chemicals | 62.71 |
| Photo lab. work | 7.65 | Wire | 11.80 |
| Freight | 6.09 | Bulbs | 9.27 |
| Cats | 6.00 | Dry ice | 8.32 |
| Dogs | 18.00 | Chemicals | 15.20 |
| Freight | 5.27 | Office supplies | 8.26 |
| Chemicals | 10.14 | Housekeeping supplies | 1.38 |
| Filter strips, pipettes | 33.17 | Cats & Postage | 9.66 |
| Celite | 7.73 | Misc. supplies | 37.91 |
| Animal food | 39.14 | Chemicals | 25.39 |
| Chemicals | 20.19 | Chemicals | 10.80 |
| Telephone bill | 2.48 | Dry ice | 22.54 |
| Misc. lab. supplies | 10.42 | Cats | 10.50 |
| Tubes | 62.30 | Bulbs | 6.18 |
| Maintenance supplies | 20.38 | Rabbits | 24.72 |
| Telephone bill | 6.33 | Chart paper | 47.20 |
| Misc. lab. supplies | 18.38 | Wire | 40.14 |
| Misc. lab. supplies | 8.50 | Maintenance supplies | 4.52 |
| Electrodes & wire | 41.94 | Dogs | 36.00 |
| Yeast | 4.04 | Pharmaceutical supplies | .48 |
| Hydrogen sulfide | 3.33 | Radiiodinated albumin | 18.44 |
| Chemicals | 21.16 | Electric supplies | 14.94 |
| Infrared spectras | 9.00 | Book | 11.59 |
| Cats | 37.00 | Dry ice | 15.33 |
| Binding of Journals | 31.05 | Infrared spectras | 9.00 |
| Mice | 36.78 | Hearing aid cases | 8.14 |
| Pharmaceutical supplies | 7.00 | Tubing & ware | 17.37 |
| Cats | 10.00 | Book | 35.06 |
| Tubes | 12.11 | Book | 4.78 |
| Chemicals | 55.86 | Cats | 36.50 |
| Reprints | 24.10 | Telegram | 3.00 |
| Chemicals | 37.56 | Publiching costs | 33.60 |
| Dry ice | 25.40 | Chemicals | 8.29 |
| Cats | 16.00 | Book | 7.61 |
| Animal food | 68.50 | Dry ice | 33.98 |
| Chemicals | 12.91 | Dogs | 27.00 |
| Dry ice | 20.49 | Pharmaceutical supplies | 1.41 |
| Cats | 25.00 | Rabbits | 41.20 |
| Telephone bill | 4.62 | Reprints | 19.32 |
| Book | 14.84 | Noddlle valve | 14.79 |
| Tape dispensers | 6.86 | Wais | 21.63 |
| Cats & Misc. lab. supplies | 26.54 | Misc. supplies | 5.25 |
| Chemicals | 3.76 | Chemicals | 26.43 |
| Book | 5.39 | Slide rule | 6.13 |
| Book | 17.32 | Lamp & connectors | 28.17 |
| Mice | 63.72 | Thermometers | 13.53 |

Continued next column

Continued: to page 2

41-51
RECEIPT

Receipt is hereby acknowledged of the following:

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

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

[REDACTED]

DATE: 14 Aug 58

B
E
B
E
B

C

30 July 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

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

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

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

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

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

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

[redacted]
Chief
TSS/Chemical Division

Attachments:
Invoices and Certifications

Distributions:
✓ Orig & 2 - Addressee

CHECK NO. 1 IN THE AMOUNT OF \$16,067.33

RECEIVED
8 AUG

888 002678. 600.1. 2502-10-001 17.2 1/16, 7/15.02
1/16, 7/16.02

[redacted]
5 Aug '58 06760

47-55

INVOICE

For services

\$16,710.02

CERTIFICATIONS

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

Chief, TSS/Chemical Division

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

Research Director

Date:

Downgraded to: CONFIDENTIAL
by authority of: Y37475
date: June 1977
E2 IMPDET: CL BY 187475

47-56

DRAFT
19 June 1958

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 47

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

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

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

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

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

5. The [REDACTED] has requested Emory University to

by authority of 167475

date: June 1977

47-56

E2 IMPDET; CL BY 167475
submit to them a summary accounting on an annual basis of all monies received from the Fund. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

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

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

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

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

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



A

Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:



A

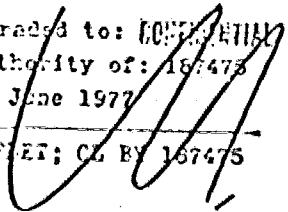
Research Director

Date: June 23, 1977

Attachment:
Proposal

Distribution:
Original only

Downgraded to: CONFIDENTIAL
by authority of: 167475
date: June 1977
E2 IMPDET; CL BY 167475



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

W. C. Griffith M.D.

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

011

01

B

47-56

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

PROPOSED BUDGET 1958-1959

Personnel:

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

TOTAL PERSONNEL \$29,720.

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

\$14,100
\$13,820
4,382

10% UNIVERSITY OVERHEAD

TOTAL PROPOSED BUDGET \$48,202

WARNING NOTICE

SENSITIVE INTELLIGENCE

SOURCES AND METHODS INVOLVED

47-58


19 June 1958

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

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

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$50,130.03 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$50,130.08 funds obligated during FY 58) to be charged to Allotment 8-2502-10-001.

A 
 Chief
 TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

A 

Research Director

Date:

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

I CERTIFY THAT FUNDS ARE AVAILABLE
 CHEMICAL DIVISION 3678
 SUBJECT TO ALLOTMENT 8-2502-10-001
 24 JUN 1958
 Acting Chief

47-59

EMORY UNIVERSITY

~~_____~~ Grant

B

Department of Pharmacology

Dr. Carl C. Pfeiffer, Director

PERSONNEL

| <u>Employee</u> | <u>Position</u> | <u>Amount</u> |
|-----------------|------------------------|--------------------|
| | Student Assistant | \$ 100.00 |
| | Research Assistant | 525.00 |
| | Research Assistant | 600.00 |
| | Research Assistant | 3,000.00 |
| | Assistant Professor | 1,083.32 |
| | Technician | 750.00 |
| | Research Technician | 275.00 |
| | Lab. Maid | 481.00 |
| | Student Assistant | 646.15 |
| | Student Assistant | 969.24 |
| | Student Assistant | 1,327.00 |
| | Research Assistant | 500.00 |
| | Technician | 3,575.00 |
| | Asst. Professor | 7,425.00 |
| | Instructor | 708.32 |
| | Technician Specialist | 225.00 |
| | Student Assistant | 100.00 |
| | Graduate Assistant | 22.50 |
| | Instructor | 45.00 |
| | Social Security | 331.58 |
| | Total Personnel | \$22,695.11 |

C

FELLOWSHIPS

~~_____~~

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

Human Subjects

\$3,409.00

47-59

EMORY UNIVERSITY

B

Grant

Department of PharmacologyDr. Carl C. Pfeiffer, DirectorTRAVEL

| <u>Date</u> | <u>Individual</u> | <u>Destination</u> | <u>Ck. No.</u> | <u>Amount</u> |
|--------------|-----------------------|-------------------------------------|----------------|-------------------|
| 6/28-30/57 | Dr. Carl C. Pfeiffer | Chicago. | 38761 | \$ 71.26 |
| 8/23-30/57 | Dr. Carl C. Pfeiffer | ██████████ | 41237 | 110.96 |
| C 8/23-25/57 | ██████████ | ██████████ | SJ-8-147 | 84.37 |
| 9/3-7/57 | Dr. Carl C. Pfeiffer | Washington, D.C. | 41844 | 245.61 |
| C 9/3-10/57 | ██████████ | ██████████ | 41883 | 64.60 |
| 12/5-6/57 | Dr. Carl C. Pfeiffer | Washington, D.C. | 46370 | 103.10 |
| 1/24-27/58 | Dr. Carl C. Pfeiffer | New York City & Middleton, Conn. | 49471 | 183.70 |
| 4/11-18/58 | Dr. Carl C. Pfeiffer | Chicago and Philadelphia | 54262 | 271.85 |
| | | Total Travel | | <u>\$1,135.45</u> |

EXPENDABLE SUPPLIES

47-59

EMORY UNIVERSITY

B

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

| ITEM | AMOUNT | ITEM | AMOUNT |
|-------------------------------|----------|-----------------------------|--------|
| Dogs | \$ 36.00 | Kymograph paper | 41.93 |
| Chemical determinations | 3.09 | Chemicals | 17.61 |
| Batteries | 8.33 | Chemicals | 69.91 |
| Data sheets | 19.83 | Scotch tape | 5.36 |
| Data pads | 45.32 | Misc. lab. supplies | 10.67 |
| Thermometers | 31.63 | Chemicals | 17.37 |
| Chemicals | 21.75 | Chemicals | 22.20 |
| Diffusion unit | 91.96 | Needles, valve, stopcocks, | |
| Chemicals | 5.75 | chemicals | 32.57 |
| Manual | 1.55 | Chemicals | 47.86 |
| Mice | 60.97 | Gas (O ₂) | 14.83 |
| Chemicals, glassware | 44.20 | Animal food, cedar shavings | 37.70 |
| Cats, postage | 39.48 | Photographic work | 87.75 |
| Chemicals | 46.83 | Chemical determinations | 40.60 |
| Culture | 4.47 | Misc. lab. supplies | 38.84 |
| Chemicals | 3.31 | Reference book | 5.88 |
| Alcohol | 6.41 | Repair mastoid ronguers | 5.00 |
| Chemicals | 2.66 | Animal food | 26.27 |
| Spatulas, chemicals | 34.56 | Chemicals | 54.79 |
| Cats, lab. supplies | 15.60 | Plywood | 7.81 |
| Cats, lab. supplies | 34.46 | Regulator | 30.13 |
| Bottles, tubing adapter | 41.57 | Thermometers | 81.43 |
| Animal food | 42.16 | Reprints | 59.65 |
| Chemicals | 5.83 | Alcohol | 2.56 |
| Animal food | 43.78 | Pharmaceutical supplies | 5.80 |
| Chemicals | 19.37 | Chemicals | 47.84 |
| Animal food | 13.39 | Reference book, slides | 14.10 |
| Cats | 24.00 | Chemicals | 2.90 |
| Chemical determinations | 41.00 | Thermometers, chemicals | 13.94 |
| Freight | 4.37 | Office supplies | 10.00 |
| Chemicals | 19.57 | Table cart | 67.35 |
| Tubes | 31.91 | Alcohol | 3.85 |
| Research notebooks | 119.58 | Pharmaceutical supplies | 58.55 |
| Record supplies | 29.25 | Chemicals | 8.47 |
| Melting point apparatus | 21.73 | Reprints | 31.65 |
| Wire, tubing | 19.37 | Reduction gear | 10.25 |
| Cats, postage, misc. supplies | 38.91 | Chemicals | 2.93 |
| Pharmaceutical supplies | 24.50 | Freight | 4.23 |
| Chemical analysis | 6.65 | Mice | 33.43 |
| Pipettes, acetone, ligroine | 84.91 | Needles | 21.80 |
| Stainless steel spatulas | 24.00 | Slides | 7.93 |
| Chemicals | 155.50 | Fork Liver | 4.90 |
| Animal food | 26.27 | Sturditips | 1.22 |
| Ether | 17.33 | Chemicals, tubing, stoppers | 57.68 |
| Photographic service | 23.10 | Magnifier | 36.02 |

Continued next column

Continued to Page 2

47-59

EXPENDABLE SUPPLIES

| <u>ITEM</u> | <u>AMOUNT</u> | <u>ITEM</u> | <u>AMOUNT</u> |
|---------------------------------|---------------|---------------------------|---------------|
| Forward from Page 1 | | | |
| Drugs | \$ 15.97 | Aluminum foil, dispenser | 18.94 |
| Electric Motor | 8.76 | Drugs | 12.57 |
| Misc. lab. supplies | 37.84 | Bottles | 31.93 |
| Chemicals | 19.60 | Magnetic bars | 3.99 |
| Apron, flasks, tubes | 35.82 | Plastic cover | 5.67 |
| Red herringbone toveling | 9.27 | Watch, glasses, chemicals | 4.69 |
| Stethoscope-head, tubing | 13.39 | Stoppers | 4.27 |
| Chemical determinations | 13.00 | Chemicals | 16.07 |
| Swivel casters | 9.02 | Flasks, chemicals | 17.82 |
| Pneumatic pressure regulator | 23.68 | Drugs | 16.98 |
| Plastic covers, chemicals | 15.44 | Chemicals | 17.01 |
| Photographic work | 23.25 | Chemicals | 32.42 |
| Ice torgs | 11.21 | Chemicals | 5.56 |
| Ether, funnels | 11.06 | Reprints | 26.65 |
| Freight | 2.08 | Chemicals | 36.07 |
| Office supplies | 5.50 | Reprints | 41.43 |
| Tape | 1.44 | Chemicals | 8.60 |
| Alcohol | 3.85 | Office supplies | 1.80 |
| Pharmaceutical supplies | 8.00 | Cats | 10.00 |
| Chemicals | 10.67 | Photographic service | 9.50 |
| Stoppers, grease, test tubes | 19.03 | Chemicals | 16.63 |
| Adapter | 3.20 | Funnels | 11.25 |
| Chemicals | 2.58 | Chemicals | 206.00 |
| Casters | 6.15 | Animal food | 44.70 |
| Chemicals | 6.56 | Freight | 4.59 |
| Forceps, scalpel | 9.21 | Animal food | 15.48 |
| Binding journals | 30.90 | Misc. lab. supplies | 3.97 |
| Reference Book | 6.51 | | |
| Chemicals | 2.02 | Total | \$4,020.27 |
| Forceps | 16.96 | | |
| Chemicals | 11.17 | | |
| Chemicals | 14.20 | | |
| Reprints | 33.00 | | |
| Misc. lab. supplies | 37.79 | | |
| Chemicals | 20.81 | | |
| Chemicals, flasks | 14.28 | | |
| Freight | 2.30 | | |
| Chemicals | 8.55 | | |
| Funnel | 2.59 | | |
| Chemicals | 25.03 | | |
| Polyak vertebrate visual system | 37.52 | | |
| Chemical determinations | 13.39 | | |
| Freight | 2.24 | | |
| Chemicals | 8.78 | | |
| Funnels | 5.62 | | |
| Helium, valve | 18.47 | | |
| Miscellaneous supplies | 30.94 | | |
| Chemicals | 16.53 | | |
| Freight | 5.43 | | |
| Chemicals | 21.16 | | |
| Chemicals | 4.64 | | |
| Chemical determinations | 39.50 | | |

RECEIPT

47-40

I hereby acknowledge receipt of the following two checks:

Cashier's Check No. ^E [redacted], dated April 30, 1958, drawn on
The [redacted], in the amount
of \$32,280.67, payable to the ^B [redacted]

^E Registered Check No. ^E [redacted] drawn on the ^E [redacted]
[redacted], in the amount of \$1,291.23, pay-
^B able to the ^B [redacted]

[redacted] ^C

Date: 40 May 58

34,480.67
1,291.23

33,571.90

47-61

22 April 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

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

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

Cashier's check in the amount of \$32,280.67, drawn
on a [REDACTED] E

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

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

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

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

CHECK # 4464 IN THE AMOUNT OF \$ 32,280.67
RECEIVED 19 MAY 1958

[REDACTED] A
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

1 - TSS/FASB
2 - TSS/CD

CHECK # 4117 IN THE AMOUNT OF \$ 1,291.23
RECEIVED 19 MAY 1958

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION REFERENCE NO. 5976
CHARGE TO ALLOTMENT NO. 7-2502-10-001

AUTHORIZING OFFICER
[REDACTED] A

47-60
INVOICE

For services

\$16,785.94

B

CERTIFICATIONS

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

Acting Chief, TSS/Chemical Division

Date:

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

Research Director

Date:

47-63
S-1-117

RECEIPT

I hereby acknowledge receipt of the following two checks:

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

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

[redacted] ^C
Date: 27 Aug 57

EMORY UNIVERSITY

~~_____~~ Grant **B**

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

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

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

Direct Expenditures:

| | | |
|-------------------------------|--------------------|------------------|
| Personnel | \$28,743.75 | |
| Human subjects | 3,493.00 | |
| Travel | 1,963.50 | |
| Equipment | 5,563.74 | |
| Expendable Supplies | 4,237.97 | |
| Total Direct Expenditures | <u>\$44,002.96</u> | |
| Contribution to Indirect Cost | 4,309.00 | |
| Total Expenditures | <u>\$48,310.96</u> | <u>48,310.96</u> |

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

I have examined and approved the submitted expenditures.

*See attached schedules.

[Signature]
 Chief
 TSS/Chemical Division
 Emory University
 JUL 23 1957

Approved:

[Signature]
 Carl C. Pfeiffer, M. D.
 Project Director

[Signature]
 Evell E. Bessent, C. P. A.
 Controller

47-64

EMORY UNIVERSITY

B

~~_____ Grant~~

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

PERSONNEL

| <u>Employee</u> | <u>Position</u> | <u>Amount</u> |
|-------------------------------|---------------------|--------------------|
| C Pfeiffer, Carl C. | Research Assistant | \$ 1,800.00 |
| | Student Assistant | 600.00 |
| | Student Assistant | 600.00 |
| | Research Associate | 6,599.99 |
| | Lab. Maid | 1,856.50 |
| | Instructor | 600.00 |
| | Professor | 750.00 |
| | Student Assistant | 600.00 |
| | Research Assistant | 2,400.00 |
| | Technician | 3,300.00 |
| | Secretary | 2,125.00 |
| | Associate Professor | 4,333.28 |
| | Technician | 1,485.00 |
| | Technician | 137.50 |
| | Instructor | 250.00 |
| | Student Assistant | 580.00 |
| | Student Assistant | 156.00 |
| | Technician | 46.67 |
| Technician | 46.67 | |
| Student Assistant | 12.00 | |
| T.I.A.A. - Dr. C. C. Pfeiffer | | 37.50 |
| Social Security | | 427.64 |
| Total Personnel | | <u>\$28,743.75</u> |



Human Subjects

\$ 3,493.00

I have examined and approved the submitted expenditures.

~~_____~~

SIEMENSON
Chief
TSS/Chemical Division

Date

APR 23 1957

EMORY UNIVERSITY

B

Grant.

47-64

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

EXPENDABLE SUPPLIES

| <u>Item</u> | <u>Amount</u> | <u>Item</u> | <u>Amount</u> |
|-----------------------------------|---------------|---------------------------|---------------|
| Flasks | \$ 4.79 | Freight | \$ 2.42 |
| Chemicals | 12.91 | Casket | .55 |
| Hemostats, Forceps | 84.65 | 200 bars Ivory soap | 9.15 |
| Animal food | 67.77 | Dogs | 305.00 |
| Animal food | 6.54 | Telephone calls | 8.47 |
| Chemicals | 9.43 | Drugs | .55 |
| Telephone call | 6.66 | Postage, drugs, file | 26.76 |
| Photographic work | 81.25 | Freight | 1.99 |
| Chemicals | 47.56 | Thermometers | 14.13 |
| Rubber tubing, chemical bottles | 23.32 | Knife blades | 4.55 |
| Desk | 12.62 | EMI paper | 283.25 |
| Platinum Oxide | 35.17 | Pyrex stirrers | 52.74 |
| Drugs | 7.35 | Bio of lab. mouse, shell | 6.38 |
| Magnets | 21.09 | Design cards | 2.27 |
| Multiplosic Personality inventory | 24.21 | Telegram | 3.70 |
| Tubing, adapters | 7.85 | Book | 10.17 |
| Office Supplies | 21.51 | Laundry | 41.65 |
| Drugs | 34.55 | Date pads | 19.50 |
| Alcohol | 1.71 | Mice lab. supplies | 15.66 |
| Dogs and cats | 170.00 | Telephone calls | 5.01 |
| Postage, telegram, drugs | 40.73 | Dogs | 145.00 |
| MPI cards & recording sheets | 38.73 | Book - reference | 8.23 |
| Rats | 66.38 | 100 metal card holders | 15.49 |
| Culture caps | 9.79 | Telephone call | 2.09 |
| Chemicals | 65.06 | Telephone call | 12.82 |
| Insulators | 5.49 | Coats | 12.02 |
| Hypo needles, thermometers | 29.27 | Chemicals, tubing, spoons | 50.33 |
| Bottles & chemicals | 54.07 | Spoons | 24.74 |
| Mice | 58.32 | Frames | 5.89 |
| Drugs | 31.14 | Freight | 50.26 |
| Mueller clips | 22.16 | Mice lab. expenses | 3.88 |
| Paper roller | 5.69 | Chemicals | 30.00 |
| Drugs | 11.52 | Laundry | 826.68 |
| Drugs | 3.12 | Stopcock | 43.59 |
| Angle iron & costers chemicals | 40.15 | Chemicals | 8.54 |
| Laundry | 18.03 | Photographic work | 7.56 |
| Gas & needle valve | 31.72 | Chemical determinations | 32.50 |
| Flywood | 22.56 | Chemicals | 21.63 |
| Photographic work | 85.64 | Chemicals, flasks | 391.82 |
| | 4.00 | Chemicals | 20.32 |
| | | Chemicals, lab. coats | 5.10 |
| | | | 21.50 |

Continued next column

Balance forward next page

Reviewed and approved the sub-
expenses
A
JUL 23
DIVISION

EMORY UNIVERSITY

B
Grant

47-64

EXPENDABLE SUPPLIES

| <u>Item</u> | <u>Amount</u> |
|-----------------------------|---------------|
| Continued from Page 1 | |
| Freight | \$ 4.74 |
| Miscellaneous lab. supplies | 30.13 |
| Alcohol | 3.85 |
| Dogs & cats | 50.00 |
| Drugs | 19.76 |
| Chemicals | 4.48 |
| Animal food | 21.14 |
| Tubes | 17.67 |
| Bottles | 14.83 |
| Chemicals | 22.92 |
| Service typewriter | 14.58 |
| Chemicals | 72.55 |
| Record books | 16.22 |
| Desk sorter | 3.81 |
| Chemicals | 20.96 |
| Mice | 62.50 |
| Pipe wire | .12 |
| Total Expendable Supplies | \$ 4,237.91 |

I have examined and approved the submitted expenditures.

A
Date: _____

[Signature]
SIBBELL GOTTLES
Chief
TSS/Chemical Division

47-65

NO. 3770

9-2502-10-001

ALLOTTMENT

11

| DATE | REVENUES AND REVERSALS | OBLIGATIONS INCURRED | OBLIGATIONS LIQUIDATED | CUMULATIVE BALANCE |
|-------------|------------------------|----------------------|------------------------|--------------------|
| 3 June 457 | Military ⁵ | 50,357.84 | | 50,357.84 |
| 16 AUG 1957 | Income ⁶ | | 16,782.54 | 33,575.30 |
| 24 APR 1958 | Income ¹ | | 33,575.90 | - |
| | | 24 APR 1958 | 119 | |

~~SECRET~~

47-66

24 May 1957

MEMORANDUM FOR: COMPTROLLER

ATTENTION: Finance Division

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

Under the authority granted in the memorandum dated 19 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$50,357.84 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$50,357.84 funds obligated during FY 57), to be charged to Allotment 7-2502-10-001.

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

A ~~Original signed by~~

Research Director

Date: MAY 29 1957

Distribution:
Orig & 2 - Addressee

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

TSS/CD: ~~Signature~~ (24 May 57)

A

26 JUN 1957
CERTAIN THESE FUNDS ARE AVAILABLE
OBLIGATION NUMBER 5770
CHARGED TO ALL. NO. 7-2502-10-001

A/C
SRB
1045
JUL 1957

~~SECRET~~

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

DRAFT
24 May 1957

47-67

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA, Subproject 47

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

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

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

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

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

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

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

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

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

~~_____~~

by authority of: 187475

date: June 1977

SECRET
- 2 -

47-67

E2 IMPDET; CL BY 187475

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

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

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

~~[Redacted Signature]~~

A

Chief, Branch II
TSS/Chemical Division

APPROVED FOR OBLIGATION
FOR OBLIGATION OF FUNDS:

Approved:

A

~~[Redacted Signature]~~

Research Director

~~[Redacted Signature]~~

A

Chief, TSS/Chemical Division

Date: 11 11 1977

Attached:
Proposal

Distribution:
Original only

~~[Redacted Signature]~~

Downgraded to: CONFIDENTIAL

by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475

A. Human volunteers - Atlanta Federal Penitentiary

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

B. Pharmacological and biochemical studies

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

C. Chemical synthetic program

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

D. Clinical studies in schizophrenia

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

WARNING NOTICE

SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

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

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

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

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-68

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

by

[REDACTED]

C

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

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

A. Substituted Piperidinecarboxamides:

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

B. Arylalkylamine Derivatives:

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

C. Indolylalkylamine Derivatives:

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

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

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

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

4746

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

(1) cholinesterases:

- a. acetylcholinesterase (substrate: acetyl-; methylcholine; compounds studied: pyridine- and piperidinecarboxylic acid, arylalkylamine and indolylalkylamine derivatives; effects studied: inhibition and/or potentiation; method: Warburg manometric technique)
- b. pseudocholinesterase (substrate: butyrylcholine and/or benzoylcholine; compounds studied: pyridine- and piperidinecarboxylic acid, arylalkylamine and indolylalkylamine derivatives; effects studied: inhibition and/or potentiation; method: Warburg manometric technique)

LSD was found to be a powerful inhibitor of pseudocholinesterase in human serum and brain. Pseudocholinesterase activity of rat, guinea-pig, rabbit, chicken and monkey brain is much less sensitive to inhibition by LSD than is the corresponding enzyme in human brain. Pseudocholinesterase was inhibited more powerfully by LSD than by other ergot alkaloids. (R. H. S. Thompson, A. Tickner and G. R. Webster, Brit. J. Pharmacol., 10: 61, 1955.)- LSD was found to inhibit (50%) pseudocholinesterase activity at a 1×10^{-6} M. concentration and was found to augment (50%) the activity of the enzyme at 6×10^{-7} M. concentration. Similar observations were reported for serotonin (5-hydroxytryptamine). (C. H. Fried and W. Antopol, Fed. Proc., 16: 357, 1957.)- Meperidine (1-methyl-4-phenyl-4-carbethoxypiperidine) and other narcotic analgesics capable of producing hallucinations were reported to potentiate (42-139%) the hydrolysis of benzoylcholine by pseudocholinesterase at concentrations ranging from 10^{-3} to 10^{-4} M. (E. G. Erdos and S. P. Shanor, Fed. Proc., 16: 297, 1957.)- Tryptamine and benzylamine (phenylmethylamine) were found to activate (43-93%) the hydrolytic action of pseudocholinesterase upon benzoylcholine. (E. G. Erdos, F. F. Foldes, N. Baart and S. P. Shanor, Fed. Proc., 16: 294, 1957.)-

(2) amine oxidases:

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

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

(3) Saccharomyces cerevisiae:

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

WARNING NOTICE
 SENSITIVE INTELLIGENCE
 SOURCES AND METHODS INVOLVED

47-68

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

LSD and mescaline (3,4,5-trimethoxyphenethylamine) were reported to inhibit respiration of *S. cerevisiae* (substrate: glucose) at 10^{-3} to 10^{-4} and 10^{-2} M. concentrations, respectively. (H. P. Rieder, *Confinia Neurologica*, 14: 65, 1954.)- Clinical investigations suggested that LSD induced hallucinations may be due to interference with normal carbohydrate metabolism. (W. Mayer-Gross, W. McAden and J. W. Walker, *Nervenarzt*, 23: 30, 1952.; cf. *Nature*, 168: 827, 1951 and *J. Mental Sci.*, 99: 804, 1953.)-

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

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

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

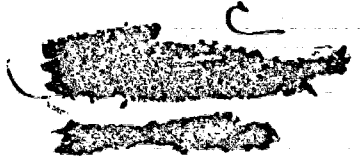
C. In connection with the Deaner Project, Dr. Pfeiffer suggested:

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

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

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

Emory University, May 17, 1957.



WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

47-69

B

PROPOSED BUDGET 1957-1958

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

June 1, 1957 - May 31, 1958

| | | | |
|------------|---|-----------------|-----------------|
| PERSONNEL: | Director, Carl C. Pfeiffer*(Part) | \$3,000 | |
| | Asst. Prof.; [REDACTED] | \$7,500 | |
| | Asst. Prof.; [REDACTED] C | 7,000 | |
| | Research Asst.; [REDACTED] | 3,000 | |
| | Technician, [REDACTED] | 3,300 | |
| | Technician, [REDACTED] (1/2) | 1,800 | |
| | Graduate Stud.; [REDACTED] | 2,400 | |
| | Graduate Student | 2,400 | |
| | Secretary (Part) | 500 | |
| | Animal Attendant; [REDACTED] | 1,200 | |
| | | <u>\$32,100</u> | |
| | 24% OASB | 444 | |
| | *5% Retirement | 1,075 | |
| | TOTAL PERSONNEL | \$33,619 | \$33,619 |
| | Stipends for Human Volunteers (Atlanta Federal Penitentiary) | 2,900 | \$ 2,900 |
| | Consumable supplies | 2,000 | |
| | Equipment | 4,000 | |
| | Travel | 1,500 | |
| | | <u>\$ 7,500</u> | \$ 7,500 |
| | | | <u>\$44,019</u> |
| | 10% University Overhead | | <u>4,402</u> |
| | TOTAL BUDGET | | \$48,421 |

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

FILE PFEIFFER

B

PROPOSED BUDGET 1956-1957

47-7

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

June 1, 1956 - May 31, 1957

PERSONNEL:

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

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

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

| | | |
|----------------------|--------------|---------|
| Consumable Supplies: | \$ 2,094 | |
| Equipment | 6,000 | |
| Travel | <u>1,500</u> | |
| | \$ 9,594 | \$9,594 |

| | | |
|-------------------------|----------|--------------|
| 10% University Overhead | \$ 4,309 | \$43,094 |
| | | <u>4,309</u> |

TOTAL BUDGET \$47,403

47-72

11 September 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

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

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

Cashier's check in the amount of \$1,264.03, drawn on a [redacted] bank.

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

Both checks should be made payable to the [redacted]

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

3. This is a final invoice. A total of \$66,174.34 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.

CHECK # 318 IN THE AMOUNT OF \$31,602.00
RECEIVED 23 SEP 1956

[redacted] A

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee
1 - Comptroller
1 - TSS/PASB - BPL
2 - TSS/CD

1 COPY FOR BUDS 215 215 12 SEP 1956
ORIGINAL FILED IN 3535
INDEXED TO 2502-10-001

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

CHECK # 30553 IN THE AMOUNT OF \$1,264.03
RECEIVED 23 SEP 1956

[redacted] A

H/C
[redacted] A

INVOICE

47-72

For services

\$32,866.08

CERTIFICATIONS

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

Chief, TSS/Chemical Division

Date:

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

Research Director

-Date:

RECEIPT

41-13
47-73

Receipt is hereby acknowledged of the following two checks:

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

(E) [redacted] (E) dated July 13, 1956, drawn on the [redacted] in the amount of \$632.04, payable to the [redacted] (B)
[redacted] (A)

Date 19 July '56

47-74

3 July 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MKULTRA Subproject 47
Invoice No. 4, Allotment 6-2507-10-001

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

- ① [redacted] in the amount of \$15,601, drawn on a [redacted]
- ② [redacted] in the amount of \$832.01, drawn on a [redacted]

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

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Wednesday, 10 July 1956.

[redacted] A
Acting Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications
(Orig & 1)

Distribution:
Orig & 2 - Addressee
1 - Comptroller

✓ 1 - TSS/FASB
2 - TSS/CD

TSS/CD: [redacted] (3 July 1956)

CHECK IN THE AMOUNT OF \$832.01
RECEIVED 17 JUL 1956

CHECK IN THE AMOUNT OF \$15,601.00
RECEIVED 17 JUL 1956

~~CONFIDENTIAL~~

47 - 74

INVOICE

For services

B

\$16,493.04



CERTIFICATIONS

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

Acting Chief, TSS/Chemical Division

Date:

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

Research Director

Date:

~~CONFIDENTIAL~~

47-74

7 June 1956

MEMORANDUM FOR: COMPTROLLER
 ATTENTION : Finance Division
 SUBJECT : MKULTRA Subproject 47,
 Additional Authorization 14

- Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$48,299.12 has been authorized to cover the subproject's expenses (thereby bringing the funds obligated during FY 56 to a total of \$88,174.34).
- This expenditure should be charged against Allotment 6-2502-10-001.

I CERTIFY THAT FUNDS ARE AVAILABLE: 20 JUN 1956
 OBLIGATION REFERENCE No. 2525
 CHARGE TO ALLOTMENT No. 6-2502-10-001

AUTHORIZING OFFICER

SIDNEY GOTTLIEB, Chief,
TSS/Chemical Division

APPROVED FOR
OBLIGATION OF FUNDS:

Research Director

Distribution: 1-71
Orig & 2 - Addressee

- 1 - TSS/OC
- 1 - TSS/FASBP
- 1 - TSS/SRB
- 2 - TSS/CD
- TSS/CD/ (6 Jun 56)

Date:

47-71

| | | |
|------------------------|----------|-----------|
| TRANSMIT L SLIP | | DATE |
| TO: [REDACTED] | | |
| ROOM NO. | BUILDING | |
| REMARKS: | | |
| <i>For information</i> | | |
| <i>FILE 47</i> | | |
| FROM: [REDACTED] | | |
| ROOM NO. | BUILDING | EXTENSION |

FORM NO. 241
1 FEB 55

REPLACES FORM 36-B
WHICH MAY BE USED.

(7)

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

47-77
A

DRAFT

7 June 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 47

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

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

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

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

~~CONFIDENTIAL~~
TOP SECRET

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

TOP SECRET

47-77

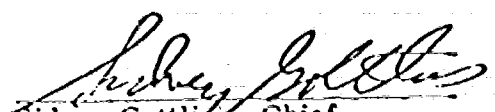
8. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

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

 A

TSS/Chemical Division

APPROVED:


Sidney Gottlieb, Chief,
TSS/Chemical Division

APPROVED FOR
OBLIGATION OF FUNDS:

 A

Research Director

(Date) June 11 1976

Attachment:
Proposal & Budget

Distribution:
Original Only -- TSS/CD

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

TOP SECRET

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

~~CONFIDENTIAL~~

47 - 77

PROPOSAL

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

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

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

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

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

E2 IMPDET; CL BY

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

E2 IMPDET; CL BY 187475

(3)

47-77

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

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

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

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

E2 IMPDET; CL BY 187475

by authority of: 187475
date: June 1977

47-77

E2 IMPDET; CL BY 187475

PROPOSED BUDGET 1956-1957

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

June 1, 1956 - May 31, 1957

PERSONNEL:

| | |
|------------------------------|----------|
| Asst. Prof., | \$ 7,200 |
| Asst. Prof., | 6,500 |
| Consultant, Carl C. Pfeiffer | 3,000 |
| Research Asst., | 3,000 |
| Technician, | 3,000 |
| Technician, (1/2) | 1,800 |
| Technician, | 3,000 |
| Graduate Student | 2,400 |
| Secretary (Part) | 500 |
| Animal Attendant, | 1,100 |

| | |
|----------------|-----|
| 2% OASB | 524 |
| *5% Retirement | 835 |

| | | |
|-----------------|----------|----------|
| total personnel | \$31,500 | \$31,500 |
|-----------------|----------|----------|

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

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

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

| | | |
|--------------|--|----------|
| TOTAL BUDGET | | \$47,403 |
|--------------|--|----------|

Downloaded to: CONFIDENTIAL

by authority of: 187475

date: June 1977

E2 IMPDET; CL BY 187475

300 11
47-78

EMORY UNIVERSITY

~~_____ Grant~~

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

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

| | | |
|---|---------------------|-------------------------|
| Unexpended balance May 31, 1955 | | \$ 161.85 |
| Received from _____ ^B this period | | <u>51,803.10</u> |
| Total funds available this period | | \$ 51,964.95 |
| <u>Direct Expenditures:</u> * | | |
| Personnel | \$ 21,538.94 | |
| Human subjects | 106.00 | |
| Travel | 1,651.45 | |
| Equipment | 18,869.43 | |
| Expendable Supplies | 5,439.65 | |
| Total Direct Expenditures | \$ 47,605.47 | |
| Contribution to Indirect Cost | <u>3,982.10</u> | |
| Total Expenditures | \$ <u>51,587.57</u> | <u>51,587.57</u> |
| Unexpended Balance as of May 31, 1956 | | \$ <u><u>377.38</u></u> |

* See attached schedules

Approved:

Carl C. Pfeiffer

Carl C. Pfeiffer, M.D.
Project Director

Emory University

Evel E. Bessent
Evel E. Bessent, C.P.A.
Controller

I have examined and approved the submitted expenditures.

Sidney G. Liebb
SIDNEY G. LIEBB
Chief

TSS/Chemical Division

Date: AUG 15 1956

47-78

B

EMORY UNIVERSITY

~~_____ Grant~~

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

PERSONNEL

| <u>Employee</u> | <u>Position</u> | <u>Amount</u> |
|-------------------------------|------------------------|---------------|
| C Pfeiffer, C. C. | Lab. Aid | \$ 479.50 |
| | Asst. Professor | 6,799.92 |
| | Professor | 3,000.00 |
| | Student Research Asst. | 800.00 |
| | Student Research Asst. | 1,800.00 |
| | Technician | 2,690.00 |
| | Research Assistant | 800.00 |
| | Student Asst. | 499.98 |
| | Instructor | 2,916.62 |
| | Student Asst. | 499.98 |
| | Student Asst. | 499.98 |
| | Student Asst. | 100.00 |
| | Student | 15.00 |
| | Student | 31.00 |
| | Student | 11.25 |
| Instructor | 200.00 | |
| T.I.A.A. - Dr. C. C. Pfeiffer | 150.00 | |
| Social Security | 245.71 | |
| Total Personnel | \$21,538.94 | |

Human Subjects \$ 106.00

I have examined and approved the submitted expenditures.

Sidney C. Gillis
SIDNEY C. GILLIS
Chief
TSS/Chemical Division

Date:

AUG 15 1956

47-78

ANDRY UNIVERSITY

B
[Redacted] Grant

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

TRAVEL

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

I have examined and approved the submitted expenditures.

Sidney G. Tillie
SIDNEY G. TILLIE
Chief
TSS/Chemical Division

Date: AUG 13 1956

47-78

B

EMORY UNIVERSITY

~~_____ Grant~~

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

EXPENDABLE SUPPLIES

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

Sub-total

\$3,200.92

Sidney Bottlier
SIDNEY BOTTIER
Chief

TSS/Chemical Division

Date: AUG 15 1956

47-78

EXPENDABLE SUPPLIES

| <u>Item</u> | <u>Amount</u> | <u>Item</u> | <u>Amount</u> |
|--------------------------------|---------------|------------------------------|---------------|
| Balance Forward | \$3,200.92 | Long distance telephone | 15.35 |
| Chemicals, porcelain balls | 28.39 | Pike, flash-o-lens | 17.65 |
| Cedar shavings | 10.30 | Glassware | 123.25 |
| Glassware, stoppers, chemicals | 104.34 | Film processing | 6.00 |
| Motor, cabinet, lamp | 35.31 | Tensolite wire | 12.41 |
| Cocanut oil soap | 12.75 | Freight, postage | 41.73 |
| Animal food | 67.77 | Photographic work | 103.50 |
| Glass cutting discs | 27.81 | Film | 4.50 |
| Drugs, cellulose wipes | 17.10 | Tubing, stoppers | 19.08 |
| Rabbits | 10.30 | Cord, brass rod | 12.46 |
| Syringes | 10.14 | Photostat | 1.20 |
| Film processing | 15.58 | Drugs | 3.00 |
| Chemicals | 41.68 | Misc. record supplies | 74.52 |
| Mice | 103.00 | Plexiglass | 30.16 |
| Animal food | 15.45 | Capsules | 30.90 |
| Laundry | 26.16 | Animal food | 13.02 |
| Drill rod, bran plate | 20.08 | Syringes, needles | 30.00 |
| Needles | 29.08 | Laundry | 46.06 |
| Chemicals | 42.73 | Glassware, chemicals, tubing | 34.46 |
| Chemicals | 14.00 | Insulators, wire | 12.49 |
| Amplifiers, bulbs, meters | 32.74 | Bicycle tube | 2.60 |
| Chemical determinations | 35.50 | Chemicals | 7.56 |
| Film processing | 3.00 | Chemicals | 22.01 |
| Chemicals | 10.15 | Data recording supplies | 42.00 |
| Glassware, chemicals, tubing | 380.60 | Total Expendable Supplies | \$5,439.65 |
| Guinea pigs | 20.60 | | |
| Freight | 1.99 | | |
| Drugs | 13.28 | | |
| Motor mount pulley | 3.61 | | |
| Chemicals | 14.63 | | |
| Tube tester, tubes, wrenches | 5.88 | | |
| Vials, chemicals, cotton | 23.74 | | |
| Misc. record supplies | 30.64 | | |
| Pipe flanges & rod | 2.03 | | |
| Dogs | 25.00 | | |
| Sponges, drugs | 24.40 | | |
| Tape | 6.46 | | |
| Photographic work | 59.50 | | |
| Dental dam | 4.02 | | |
| Tracing paper | 10.61 | | |
| Film | 14.99 | | |
| Book - Lab. reference | 13.91 | | |
| Laundry | 29.46 | | |
| Chemical determinations | 20.60 | | |
| Laundry | 16.71 | | |
| Freight | 4.39 | | |
| Animal food | 23.18 | | |
| Chemicals | 17.54 | | |
| Tensolite | 3.28 | | |
| Animal food | 48.41 | | |

I have examined and approved the submitt expenditures.

Sidney G. Lieb
 SIDNEY G. LIEB
 Chief
 MSS/Chemical Division
 Date: AUG 15 1956

EMORY UNIVERSITY
DEPARTMENT OF PHARMACCOLOGY

FILE 47

B

47-78

STATEMENT OF EXPENDITURES FROM ~~████████████████████~~
GRANT AS OF JANUARY 31, 1956

| <u>CATEGORY</u> | <u>ALLOTMENT</u> | <u>EXPENDITURES</u> |
|-----------------|------------------|-----------------------|
| Personnel | \$30,227.00 | \$21,965.82 (Approx.) |
| Travel | 1,500.00 | 914.84 |
| Equipment | 6,000.00 | 2,537.18 |
| Supplement* | 8,000.00 | 7,699.25 |
| Supplies | 2,094.00 | 2,573.69 |
| Overhead | 3,982.10 | 2,651.52 (Approx.) |
| TOTAL | \$51,803.10 | 38,362.30 |

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

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

Carl G. Pfaff

47-78

B

EMORY UNIVERSITY

~~Grant~~

Department of Pharmacology
Dr. Carl C. Pfeiffer, Director

EQUIPMENT

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

I have examined and approved the submitted expenditures.

Sidney Gottlieb
SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

Date: AUG 15 1956

UNCLASSIFIED

CONFIDENTIAL

SECRET

(SENDER WILL CIRCLE CLASSIFICATION TOP AND BOTTOM)

CENTRAL INTELLIGENCE AGENCY
OFFICIAL ROUTING SLIP

47-7

31 October 1955

| TO | | INITIALS | DATE |
|------|------------------|------------|------|
| 1 | Mr. ██████████ A | ██████████ | 11/1 |
| 2 | TSS/CD | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| FROM | | INITIALS | DATE |
| 1 | TSS/CD | | |
| 2 | | | |
| 3 | | | |

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

Remarks: Dr. G. has seen this.

FILE 47

SECRET

CONFIDENTIAL

UNCLASSIFIED

FORM NO. 30-4
1 NOV 53

Previous editions may be used.
U. S. GOVERNMENT PRINTING OFFICE 16-62348-8

(40)

47-79

MEMORANDUM OF AGREEMENT

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

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

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

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

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

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

Carl B. Phillips
11

Date: March 21, 1956

EMORY UNIVERSITY
EMORY UNIVERSITY, GEORGIA

47-80

October 5, 1955

Department of Pharmacology

Dr. [REDACTED] C
Director

[REDACTED] B
Dear [REDACTED] C

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

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

| | |
|--|------------|
| 1 Model DK-2 Beckman recording spectrophotometer | \$7,475.00 |
| 1 "Time-drive" attachment for above | 290.00 |
| 3% Georgia sales tax | 233.00 |
| TOTAL | \$7,998.00 |

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

Yours sincerely,

Carl C. Pfeiffer, M.D.

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

CCP:ba

WARNING NOTICE

**SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED**

MEMORANDUM RECEIPT

47-81

24 October 1955
DATE

TO:

[REDACTED] A

FROM:

[REDACTED] TSS/CD A

SUBJECT: Checks - Transmittal of

FILE #
PFEIFFER
SUBJECT

I hereby acknowledge receipt of the following:

for transmittal to [REDACTED] E

Treasurer's Check No. [REDACTED] on [REDACTED] in the amount of \$8,000
for [REDACTED]; dtd 18 Oct. 55

Check No. [REDACTED] in the amount of \$320 for [REDACTED] for
[REDACTED] on the [REDACTED], dtd 19 Oct. 55.

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

[REDACTED SIGNATURE]

SIGNATURE OF RECIPIENT

Colita 24, 1955

DATE RECEIVED

To
FORM NO. 36-68
MAR 1949

~~SECRET~~

11 October 1955

47 - 82

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MULIRA Subproject 47, Invoice #3,
Allotment 6-2502-10-001

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

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

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

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

SIDNEY GOTTLEB
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

Distributions:
Orig & 2 - Addressee
1 - Comptroller
1 - TSS/FASB
2 - TSS/CD

A
TSS/CD (10 October 1955)

~~SECRET~~

47-84

26 September 1955

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : AEC/TRA Subproject 47, Additional Authorization
No. 2

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DS/A and the extension of this authority in subsequent memoranda, Subproject 47 was previously approved. Under the same authority an additional sum of \$9,320.00 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$33,875.22 funds obligated during FY 56) to be charged to Allotment 6-2502-10-001.

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

APPROVED FOR
OBLIGATION OF FUNDS

~~Research Director~~ A
Research Director

Date:

- Distribution:
- Orig & 2 - Addressee
 - 1 - TSS/OC
 - 1 - TSS/PASB
 - 1 - TSS/SRB
 - 2 - TSS/CO

FUNDS ARE AVAILABLE
618
6-2502-10-001
ADMINISTRATIVE OFFICE

TSS/CO (26 September 1955)

A

~~SECRET~~

47-85

11 October 1955

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

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

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

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

3. This invoice represents the balance of the total amount
 currently authorized under Subproject 47. However, since it is
 anticipated that additional FY 56 funds will be obligated under
 this subproject, the files of Subproject 47 should remain open.

SIDNEY COFFILIS
 Chief
 TSS/Chemical Division

Attachments:
 Invoice & Certifications

Distributions:
 Orig & 2 - Addressee
 1 - Comptroller
 1 - TSS/FASB
 2 - TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE:
 ORGANIZATION REFERENCE NO. 610
 CHECK TO ALLIANCE NO. 6-2502-10-001
 12-55
 AUTHORIZING OFFICER

CHECK # 21223 IN THE AMOUNT OF \$331.00
 RECEIVED 20 OCT 1955

TSS/CD (10 October 1955)

CHECK # 59230 IN THE AMOUNT OF \$8,000.00
 RECEIVED 20 OCT 1955

SECRET

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

E2 REFDET; CL BY 187475

DRAFT/

5 October 1955

47-84

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA Subproject 47, Additional Authorization

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

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

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

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

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

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

E2 REFDET; CL BY 187475

~~CONFIDENTIAL~~
CONFIDENTIAL

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

EMORY UNIVERSITY
EMORY UNIVERSITY, GEORGIA

47-87

Pharmacology Department

August 18, 1955

Dear [REDACTED] C

I was advised by your representative, [REDACTED] that one of our special research needs might be considered by the [REDACTED] B Specifically we need for research purposes in mental disease a Beckman DK-2 ratio recording Spectrophotometer. This would be used for the following purposes:

- 1) Routine assay for purity in those compounds synthesized by [REDACTED] C or those compounds which he isolates from natural sources.
- 2) Use for monitoring rapid chemical reactions in biological systems.
 - a) The combination of convulsant acridone with deoxyribonucleic acid or ribonucleic acid.
 - b) The combination of pyridoxal phosphate with thiocarbonylhydrazide.
 - c) The modification of epinephrine by schizophrenic serum and cerebrospinal fluid. Heath reports a marked difference in light absorption with time that is characteristic of schizophrenic serum.

The cost of this basic unit is \$7,475.00, but with the wavelength hold attachment and sales tax the total cost would be about \$8,000.00.

Yours sincerely,

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

CCP:ej

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

47-88

NO.

224

6-5502-10-001

ACCOUNT

| DATE | DEBITS AND REFERENCES | OBLIGATIONS INCURRED | OBLIGATIONS LIQUIDATED | UNLIQUIDATED BALANCE |
|---------------------------|-----------------------------|-------------------------|---------------------------|-------------------------|
| 11 AUG 1955 | Authorization #2, Sec. 49 | 30,555.22 | | 30,555.22 |
| 19 SEP 1955 | Invoice #3 59,971.22 | | 30,555.22 | - |
| 8 OCT 1955 | Authorization #2 | 30,555.22 | | 30,555.22 |

Liquidated

~~SECRET~~
INVOICE

47 - 89

For services

B

\$30,971.22

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #2 applying to Subproject 47 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 47 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:

~~SECRET~~

RECEIPT

47 - 89

I hereby acknowledge receipt of the following checks:

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

all (four) checks drawn on the [redacted] Bank of [redacted] dated 27 September 1955, and payable to the [redacted] E
B

[redacted]

Date: Oct 6, 1955

47-90

B

Emory University

~~_____ Grant~~

Director: Dr. Carl C. Pfeiffer

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

Receipts

\$24,035.00

Direct Expenditures:*

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

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

23,873.15

Unexpended Balance May 31, 1955

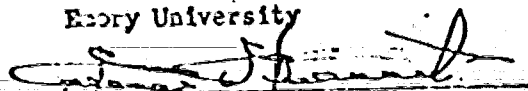
\$ 161.85

*See attached schedules


Approved:


 Carl C. Pfeiffer, M.D.
 Project Director

Emory University


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

Approved:


 Chief, TSS/Chemical Division

Date: August 31, 1955

47 - 90

B

Esory University

~~_____ Grant~~

June 1, 1954 - May 31, 1955

PERSONNEL

Employee

Position

Amount



C

Student Assistant
Instructor
Assistant Professor
Student Assistant

\$ 400.00
4,583.26
5,958.26
240.00
11,181.52

Social Security

210.84

TOTAL

\$ 11,392.36

47-90

Esory University

B

~~_____ Grant~~

June 1, 1954 - May 31, 1955

EQUIPMENT

| <u>Item</u> | <u>Amount</u> |
|---|--------------------|
| Electrical Materials | \$ 76.96 |
| Wardrobe cabinets | 171.50 |
| Wall cases | 306.94 |
| Desk | 125.27 |
| File cabinets | 127.08 |
| Burner tips, glass blower | 7.99 |
| Freight | 2.22 |
| Fume hood and Distillation hood | 1,322.59 |
| Chairs and trays | 279.94 |
| Monromatic Calculator | 654.85 |
| Balance | 39.90 |
| Typewriter | 190.75 |
| Burner tips | 2.58 |
| Labolux Microscope | 641.18 |
| Waste baskets | 3.94 |
| Dazor lamps | 98.78 |
| Glass blower shaper | 2.58 |
| Flashlight | 3.89 |
| Dazor lamps | 32.93 |
| Screwplates, wrenches, pliers, drills | 90.27 |
| Supports, large | 13.39 |
| Gas machine, bags, headstraps | 220.32 |
| Regulating transformer | 30.90 |
| Wrench | 2.82 |
| Reducing Adapter | 5.30 |
| Dazor Lamp | 16.46 |
| Pipe lines for air compressor | 215.84 |
| Support, Large | 2.68 |
| Stopwatch holders | 8.14 |
| Tizers | 28.06 |
| Pump, Centrifugal | 42.75 |
| (Credit on adapter | (.09) |
| Clamps and casters | 16.49 |
| Foam rubber mattress | 34.98 |
| 2 Pumps, centrifugal | 85.49 |
| Tycos blood pressure outfits | 78.23 |
| G. E. fans and clocks | 84.57 |
| Oven, centrifuge | 1,021.25 |
| Generators, power supply, preamplifiers | 1,106.37 |
| | <u>\$ 7,197.02</u> |

47 - 90

Page 2.

EQUIPMENT

| | |
|---|--------------------|
| Balance Brought Forward | \$ 7,197.09 |
| Shelves | 70.00 |
| Microwave Kit | 329.56 |
| Spugoinans Monitors | 154.44 |
| 4 Wheel cylinder truck | 154.44 |
| Pliers, wrenches | 41.20 |
| Steel cabinets | 40.30 |
| Steel cabinets | 132.87 |
| Autoptical preformer 500 projector, case & screen | 192.84 |
| Welch pump, Hydrogenation apparatus, stirring apparatus | 615.43 |
| Receptacle | 6.44 |
| Vacuum tygon tubing | 39.66 |
| Shelves | 10.00 |
| Chairs | 127.99 |
| Jackson Supports | 13.39 |
| Total | \$ <u>8,971.21</u> |

47-90

B

Emory University

~~_____ Grant~~

June 1, 1954 - May 31, 1955

EXPENDABLE SUPPLIES

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

ROUTING AND RECORD SHEET

47-91

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

FROM:

TSS/CD

TELEPHONE NO.

Ultra 47

DATE

| TO | ROOM NO. | DATE | | OFFICER'S INITIALS | TELEPHONE | COMMENTS |
|-------------|----------|-------|--------|--------------------|-----------|----------|
| | | RECD. | FWDD | | | |
| 1. c/tss/CD | | | 8/11 | [initials] | A | |
| 2. TSS/OC | | | Aug 11 | [initials] | A | |
| 3. TSS/CD | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| 10. | | | | | | |
| 11. | | | | | | |
| 12. | | | | | | |
| 13. | | | | | | |
| 14. | | | | | | |
| 15. | | | | | | |

TSS ONLY

~~SECRET~~

47-91

8 August 1955

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

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

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

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

APPROVED FOR
OBLIGATION OF FUNDS:

A  A


Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE.
OBLIGATION REFERENCE NO. 224
CHARGE TO ALLOTMENT NO. 6-2502-10-001
11 AUG 1955
AUTHORIZING OFFICER

Date:

Distribution:

- Orig & 2 - Addressee
- 1 - TSS/OC
- 1 - TSS/FASB
- 1 - TSS/SRB
- 2 - TSS/CD

A
CYSR  A

~~SECRET~~

~~SECRET~~

28 July 1955

47-92

MEMORANDUM FOR: THE RECORD

SUBJECT: Addendum to Subproject 47

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

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

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

Sidney Gottlieb
 SIDNEY GOTTLIEB
 Chief
 TSS/Chemical Division

APPROVED:

A 
 Chief, TSS

Distribution:
 Orig. & 1 - TSS/CD

~~SECRET~~

47-93
#47

OK

CERTIFICATE

I hereby certify receipt of Cashier's Check No. UM11789
in the amount of \$584.00, drawn on the [REDACTED] E
[REDACTED] payable to the [REDACTED] B
[REDACTED]

[REDACTED] A

(Signature)

Date: April 14, 1955

MEMORANDUM RECEIPT

TO:
FROM:
SUBJECT:

DATE

Invoice #1
Subject 47

I hereby acknowledge receipt of the following:

[REDACTED] E

CHECK #11789 IN THE AMOUNT OF \$584.00
RECEIVED.

Please return _____ signed copy(ies) of this receipt

[REDACTED] A

SIGNATURE OF RECIPIENT
APR 14 1955
DATE RECEIVED

71-77
47-94

CERTIFICATE

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

[redacted] A

Date: April 14, 1955

MEMORANDUM RECEIPT

APR 13 1955
12 April 1955
DATE

TO:
FROM:
SUBJECT:

Division #1
Subject # 47
(one of two checks)

I hereby acknowledge receipt of the following:

[redacted] E

CHECK # 191740 IN THE AMOUNT OF \$14,000 RECEIVED.

Please return signed copy(ies) of this receipt

[redacted] A

RECEIVED
DATE RECEIVED

~~SECRET~~

47 - 95

1 April 1955

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

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

Invoice No. 1 for Subproject 47 of Project MULTRA is attached. Other invoices will follow later. It is requested that payment be made by two cashiers checks, one in the amount of \$14,000.00, and one for \$544.00, payable to the ~~██~~. The checks should be sent to Chief, TSS/CD through TSS/Budget Officer by Wednesday, 6 April 1955.

SIDNEY COTTLEB
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

Distributions:
Orig & 2 - Addressee
1 - Comptroller
1 - TSS/FASB
2 - TSS/CD

CHECK # ~~██████████~~ IN THE AMOUNT OF \$14,000
RECEIVED. APR 13 1955

CHECK # ~~██████████~~ IN THE AMOUNT OF \$544.00
RECEIVED.

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBIGATION REFERENCE No. 187

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

4 - APR ENTD
AUTHORIZING OFFICER

~~SECRET~~

~~SECRET~~

47 - 95

INVOICE NO. 1

31 March 1955

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



CERTIFICATIONS

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

Date: _____

SIDNEY GOTTLIEB
Chief, TSS/CD

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

Date: _____

Research Director

~~SECRET~~

~~SECRET~~

47 - 96

23 March 1955

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

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

SIDNEY COTTIER
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS:

~~SECRET~~

Jur Research Director
Date: MAR 24 1955

Distribution:
Orig & 2 - TSS/00000
1 - TSS/FASB
1 - TSS/SRB
2 - TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBLIGATION REFERENCE NO. 171
CHANGE TO ALLOTMENT NO. 5-2502-10-01
1 APR 1955

~~SECRET~~

FOR THE CONTROLLER

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

E2 IMPDET; CL BY 187475
SCOPE OF PROJECT

~~SECRET~~

47-97

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

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

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

E2 IMPDET; CL BY 187475

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

E2 IMPDET; CL BY 187475

DRAFT
23 March 1955

47-98

MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 47

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

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

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

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

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

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

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

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

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

Date: 24 Mar 55

Attachment: Proposal

APPROVED FOR ADDITIONAL APPROPRIATION OF \$30,555.22:

Original Only

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date: June 1977

~~██████████~~ A
Research Director

E2 IMPDET; CL BY 187475

Date: AUG 9 1955

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

47-98

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

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

* At present paid from departmental funds
** New items

~~CONFIDENTIAL~~

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

Date: June 1977

~~SECRET~~

47-98

2 IMPDET; CL BY 187475 BARE MINIMUM BUDGET WITH NO EXPANSION OF PROGRAM

| | | | |
|---------------------------------|-------------------------|-------------|-------------|
| Salaries: | | | |
| | | \$7,000 | |
| Research Tech. | | 3,600 ** | |
| | | 5,500 | |
| Research Tech. | | | |
| | | 3,000 * | |
| Secretary (part-time) | | 1,000 * | |
| Animal man (50% time) | | 1,200 * | |
| | | \$20,700.00 | \$20,700.00 |
| | 2% OASB) | | |
| | 5% Retirement) | | 1,149.00 |
| | | | \$22,149.00 |
| Consumable Supplies & equipment | | \$6,000 | |
| Travel | | 1,400 | |
| | | \$7,400 | |
| | | | 7,400.00 |
| | | | \$29,549.00 |
| | 10% University Overhead | | 2,954.90 |
| | TOTAL | | \$32,503.90 |

* At present paid from departmental funds
** New items

Downgraded to: CONFIDENTIAL

Authority of: 187475
Date: June 1977

2 IMPDET; CL BY 187475

~~SECRET~~

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

~~SECRET~~
EMORY UNIVERSITY
EMORY UNIVERSITY, GEORGIA

FILE # 47-99

47-99

March 4, 1955

DIVISION OF BASIC SCIENCES
IN THE HEALTH SERVICES
Department of Pharmacology

Dr. Sidney Gottlieb
Scientific Representative

Dear Dr. Gottlieb:

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

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

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

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

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

Yours sincerely,

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

CCP:ba
Enclosures

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by authority of: 187475
date: June 1977
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TRR Subproject 47

| Date of Original Authorization | Period Covered | Time Extended to | Allotment Number | Amount of Obligation |
|--------------------------------|----------------|------------------|------------------|----------------------|
| 24 Mar 55 | 1 July 56 | | 5-2502-10-001 | 15000.00 |
| | | | | |
| | | | | |

| Additional Authorizations | Period Covered | Time Extended to | Allotment Number | Amount of Obligation |
|---------------------------|----------------|---------------------|------------------|----------------------|
| 8 Aug 1955 | | | 6-2502-10-001 | 30,555.22 |
| 6 Oct 55 | 30 June 56 | | 6-2502-10-001 | 8,320.00 |
| 7 June 56 | | | 6-2502-10-001 | 49,299.12 |
| 24 May 57 | 1 yr | beginning 1 June 57 | 7-2502-10-001 | 50,357.58 |
| 19 Oct 58 | 1 yr | begin 1 June 58 | 8-2502-10-001 | 50,130.08 |
| 28 June 59 | 1 yr | 1 June 59 | 9-2502-75-902 | 50,313.12 |
| #8 20 May 1960 | 1 yr | | 0525-1009-4902 | 51,477.92 |

| Invoice No | Date | Amount | Balance |
|------------|--------------|-----------|-----------|
| 1 | 4/1/55 | 14,584.00 | 416.00 |
| 2 | 8/19/55 | 30,971.22 | 0 |
| 3 | 10/11/55 | 8,320.00 | 0 |
| 4 | 6/3/56 | 16,433.04 | 32,866.08 |
| 5 | 11/5/56 | 32,866.08 | 0 |
| 6 | 5 Aug 57 | 16,285.94 | 33,571.90 |
| 7 | 22 Apr 1958 | 33,571.90 | 0 |
| Auth #6 | 19 June 1958 | - | 50,130.08 |
| 8 | 30 July 1958 | 16,710.02 | 33,420.06 |
| 9 | 23 June 59 | 33,420.06 | - |
| Auth #7 | June 59 | 50,313.12 | 50,313.12 |
| 10 | 24 Aug 59 | 50,313.12 | 0 |
| Auth #8 | 20 May 1960 | 51,477.92 | 51,477.92 |
| Auth #11 | 29 June 1960 | 51,477.92 | 0 |