U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH SPECIAL RESEARCH RESOURCE ANNUAL REPORT

Grant Number RR 00311-04

ACME

August 1, 1969 to July 31, 1970

Joshua Lederberg, Ph. D., Principal Investigator Stanford University School of Medicine



U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

NATIONAL INSTITUTES OF HEALTH

SPECIAL RESEARCH RESOURCE ANNUAL REPORT

Report Period: (same as cur	rrent 12-month budget period)	Grant No.				
From: August 1, 1969 To: July 31, 1970		RR 00 311- 04				
Resource Title	Resource Address	5	Resource Tel. No.			
Advanced Computer for MEdical Research (ACME)	Stanford Univ School of Med Palo Alto, Ca	icine	(415) 321- 1200 Ext. 6121			
Principal Investigator	Title		Academic Dept.			
Lederberg, Joshua	Professor		Genetics			
Grantee Institution	Type of Institut	ion	Investigator's			
Stanford University School of Medicine	Private Unive	,	Tel. No. (415) 321-1200 Ext. 5801			
Name of Institution's Specia	l Research Resour	ce Advisory	Committee:			
ACME Policy Committee						
Membership of Special Research Resource Advisory Committee (Indicate Chairman)						
Name <u>Title</u>	Departme	ent	Institution			

see next page

Typed Name and Title of Principal Investigator	Signature	Date
Joshua Lederberg, Professor		
Typed Name and Title of Grantee Institution Official	Signature	Date

ACME POLICY COMMITTEE MEMBERSHIP May, 1970

	Name	<u>Title</u>	Department	Institution
*	Paul Armer	Director	Stanford Computation Center	Stanford University
	Malcolm Bagshaw,	$M_{\bullet}D_{\bullet}$	Radiology	Medical Center
	Robert Baldwin,	Ph.D.	Biochemistry	Medical Center
	J. Weldon Bellville	M.D.	Anesthesia	Medical Center
	Walter Bodmer,	Ph.D.	Genetics	Medical Center
	Byron William Brown, Jr.,	Ph.D.	Community and Preventive Medicine	Medical Center
	Howard Cann,	M.D.	Pediatrics	Medical Center
-X-	Edward Feigenbaum,	Ph.D.	Computer Science De- partment	Stanford University
	Robert Glaser, M.D.	Dean	School of Medicine	Medical Center
	Avram Goldstein	M.D.	Pharmacology	Medical Center
	Donald Harrison	M.D.	Cardiology	Medical Center
	L. Lee Hundley	Assistant Director	ACME Computer Facility	Stanford University
*	Ronald Jamtgaard	Director	ACME Computer Facility	Stanford University
	Courtney Jones	Deputy Director	Stanford University Hospital	Medical Center
	Burt Kopell,	M.D.	Psychiatry	Medical Center
*	Joshua Lederberg, Ph.D.	Principal Investigator	Genetics	Medical Center
X	Elliott Levinthal	Ph.D.	Genetics	Medical Center
	Lawrence Schneiderman,	M.D.	Medicine-Ambulatory	Medical Center
	Bruce Stocker,	M.D.	Medicine-Microbiology	Medical Center
	Howard Sussman,	M.D.	Pathology	Medical Center
	Jobst Von der Groeben	M.D.	Anesthesia	Medical Center
	Gio Wiederhold	Consultant to Director	ACME Computer Facility	Stanford University

Management: Robert Langle, Computation Center Business Manager William Yundt, Computation Center Associate Director for Business and Finance

TABLE OF CONTENTS

Special Research Resource

Annual Report

Section	I: Resource Identification	1
Section	II: Resource Operations	
Α.	Description of Resource Operations and Progress	4
В.	Summary of Resource Usage	18
С.	Resource of Equipment List	36
D.	Summary of Publications	41
Section	III: Resource Finances	
Α.	Summary of Resource Expenditures	48
В.	Expenditure Details - Direct Costs	49
С.	Summary of Resource Funding	52
D.	Budget Explanation - Justification	53
Section	IV: Detailed Description of Resource Projects	59