

PROJECT TITLE	INVESTIGATOR	NIS	DBP	LID GET DATES	DJ COST	ECT COST	To?) L	F Y
2 13426-99 PENNSYLVANIA STATE LEFT BYPASS	PIERCE, J. S.	7605		09-01-78 08-31-79	152,725			78
5 13738-08 IV OF UTAH CITY ASSIST DEVICES AND	WI J. AL T I ERI	7800		09-01-78 03-31-79		175,500	510,331	78
5 354 CLINIC HOSPITAL	ET ERI	7800		06-76 04-01-78 05-79 05-31-79		30,263		
5 CHILDREN'S HOSPITAL BOSTON LEFT	MASSACHUSETTS AND COMPOSITE PROSTHESIS	7800		01-77 01-01-79 12-79 12-31-79	25,000			79
5 3-43 8-15 STATE AND	PIERCE, J. S. HERSHEY	7900		02-80 02-29-80			251,833	
2 SALT HBP CITY UTAH BALLOON	J. IN ANIMALS	7901	HBP	05-79 05-01-79				79
5 7-105 100 OF A TRANSFER SYSTEM	E "	7900	HBP	03-80 03-31-80			82,160	79
5 INSTITUTE OF C FORBES, JR	FLOW IN ARTERIAL BIFURCATIONS	7800	HBP	12-77 12-01-78 11-80 11-30-79	51,140	20,452	71,622	79

05-03-79

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE GRANTS ACTIVE AS OF 05-03-79
ARRANGED IN PROGRAM ORDER
DEVICES AND TECHNOLOGY BRANCH

GRANT NUMBER	INSTITUTION	PRINCIPAL INVESTIGATOR	ADMINISTRATOR	DBP	PROJ. DATES	BUDGET DATES	DIRECT COST	INDIRECT COST	TOTAL ALLOCATED	FY
5 R01 HL22329-02	SINAI HOSPITAL OF DETROIT MICHIGAN	KANTROWITZ, ADRIAN	ALIERI 7900	HBP	04-78 03-80	04-01-79 03-31-80	65,997	40,984	106,981	79
	ACTIVE PROSTHETIC MYOCARDIUM: EFFECTS ON LV FUNCTION									
R01 HL22661-01	UNIVERSITY OF UTAH SALT LAKE CITY UTAH	MORTENSEN, J D	ALTIERI 7805	HBP	09-78 08-81	09-01-78 08-31-79	141,230	74,295	215,525	78
	CHRONIC TOTAL CARDIOPULMONARY MECHANICAL SUBSTITUTION									
R01 HL23941-01	COLUMBIA UNIVERSITY NEW YORK	DOBELLE, WILLIAM H	ALTIERI 7901	HBP	04-79 03-82	04-01-79 03-31-80	85,000	26,546	111,546	79
	SIMPLE CARDIAC ASSIST (TALV) DEVICES IN MAN									
				RECORD COUNT SUPPLEMENTS			1,211,610	525,592	,737,202	
5 R01 HL11418-09	PENNSYLVANIA STATE UNIVERSITY UNIVERSITY PARK PENNSYLVANIA	ALLCOCK, HARRY R	PITLICK 7800	HBP	06-76 05-79	06-01-78 05-31-79	33,224	2,284	35,508	7
	POLYDIAMINOPHOSPHAZENES									
5 R01 HL12039-10	WASHINGTON UNIVERSITY SAINT LOUIS MISSOURI	SUTERA, SALVATORE P	PITLICK 7810	HBP	12-78 11-81	12-01-78 11-30-79	150,272	71,127	221,399	79
	BLOOD CELLS: PHYSICAL PROPERTIES, STRUCTURE AND FUNCTION									
5 R01 HL15185-04	CASE WESTERN RESERVE UNIVERSITY CLEVELAND OHIO	WALTON, ALAN G	PITLICK 7800	HBP	06-74 05-80	06-01-78 05-31-80	349,357	164,811	514,168	7
	PROGRAM PROJECT IN BIOLOGICAL MATERIALS									
5 R01 HL16921-05	UNIVERSITY OF UTAH SALT LAKE CITY UTAH	ANDRADE, JOSEPH X	PITLICK 7800	HBP	06-77 05-80	06-01-78 05-31-79	78,285	34,617	112,902	7
	SYNTHETIC HYDROGELS AS BLOOD TOLERABLE MATERIALS									

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		NATIONAL		BLOOD INSTITUTE GRANTS ACTIVE AS OF 05-08-79		ORDER		TECHNOLOGY									
5	185, IV	9	5	D	I	Q	06-76 06-79	05-01-78 -30-79	34,	055	48,234	78					
	EFFECTS OF PHYSICAL	TEXAS	2	PLATELETS													
5		2	5	E	PI		06-76 05-79	06-01-79 05-31-79	63,596	41,306	I	75					
	STY																
2	19055-04	0	3	3	PI TL	7901	04-79	04-01-79 03-31-80	130, 000	63,893	93,390	79					
	PHIL DEL	PHIA		EXTRACORPOREAL PERFUSION													
2	7	7	7	7													
	SITY OF TEXAS	EC	7														
	AUSTIN	IN															
	IS OF	TEXAS		OXYGENATORS													
5	1	1	1	A		7805	06-76 05-80	07-01-73 06-30-79	565	17, 291	64,857	78					
	OF WA																
	CELL INTERACT																
5	IV	IV	IV	K	LICK		12-76	12-01-77 03-31-79		17,8	51,063	78					
	ITY OF	V															
	EL OOD	I	I	FLUID													
5	FI	FI	FI	FI		7800	01-77 12-81	1-01-79 12-31-79	328,864	85,720	4 18,631	79					
	INSTITUTE	SAL	T	IN													
	DGE	MA															
5	RO	1-03	SUN		PI TL	7800	12-76 11-79	12-01-78 11-30-79	27,037	13,651	40,738	79					
	UNIVERSITY	UTAH															
	LTL																
	A NOVEL APPROACH TO NC NT			I C POLYMER SURFACES													

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05-08-79

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE GRANTS ACTIVE AS OF 05-02-79
ARRANGED IN PROGRAM ORDER
DEVICES AND TECHNOLOGY BRANCH

GRANT NUMBER	INSTITUTION	PRINCIPAL INVESTIGATOR	ADMINISTRATOR	NHLAC	DBP	PROJ DATES	BUDGET DATES	DIRECT COST	INDIRECT COST	TOTAL AWARDED	F Y
1 R01 HL22236-01A1	QUINTANA, RONALD P	PITLICK	7901	HBQ	04-79 03-82	04-01-79 03-31-80	53,283	13,892	67,175	79	
UNIVERSITY OF TENN CENTER HEALTH SCIEN , MEMPHIS TENNESSEE SURFACE-ACTIVE ANTITHROMBOTIC AGENTS FOR PROSTHESES											
5 R01 HL22455-02	ECKSTEIN, EUGENE C	PITLICK	7900	HBQ	04-78 03-80	04-01-79 03-31-20	23,745	15,572	39,317	79	
UNIVERSITY OF MIAMI CORAL GABLES FLORIDA PLATELET CONCENTRATION IN THE MARGINAL LAYER											
5 R01 HL22585-02	CHUANG, HANSON Y	PITLICK	7900	HBQ	04-73 03-81	04-01-79 03-31-80	33,257	15,874	49,131	79	
UNIVERSITY OF SOUTH FLORIDA TAMPA FLORIDA PLASMA PROTEINS ADSORBED TO ARTIFICIAL ORGANS											
1 R01 HL22587-01	MASON, REGINALD G, JR	PITLICK	7810	HEQ	12-78 11-81	12-01-78 11-30-79	46,468	20,994	66,962	79	
UNIVERSITY OF SOUTH FLORIDA TAMPA FLORIDA ENDOTHELIAL LININGS FOR ARTIFICIAL ORGANS											
5 R01 HL22627-02	MASCH, REGINALD G, JR	PITLICK	7500	HBQ	01-78 12-80	01-01-79 12-31-79	25,609	14,659	43,268	79	
UNIVERSITY OF SOUTH FLORIDA TAMPA FLORIDA INHIBITOR OF PLATELET ADHESION TO ARTIFICIAL ORGANS											
1 R01 HL23016-01A1	ESKIN, SUZANNE G	PITLICK	7901	HBQ	05-79 04-81	05-01-79 24-30-80	39,672	13,734	53,406	79	
BAYLOR COLLEGE OF MEDICINE HOUSTON TEXAS RESPONSE OF CULTURED ENDOTHELIAL CELLS TO FLOW											
1 R01 HL23274-01	WILLIAMS, MICHAEL C	PITLICK	7810	HBQ	12-78 11-81	12-01-78 11-30-79	47,251	14,648	61,899	79	
UNIVERSITY OF CALIFORNIA BERKELEY BERKELEY CALIFORNIA HEMOLYSIS INDUCED BY SHEAR FLOW											
1 R01 HL23288-01	BARENBERG, SUMNER A	PITLICK	7810	HBQ	12-78 11-81	12-01-78 11-30-79	45,550	28,083	73,633	79	
UNIVERSITY OF MICHIGAN ANN ARBOR MICHIGAN POLYORGANOPHOSPHAZENES; MOLECULAR MOTION & THROMBOSIS											

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P TLI	7705	9-78	09-01 03-31-79	40,	7, 755	,	
PITLICK		03-82	03-3 1-79 1-SO	740	9, 251	001	
ICK	7901	04-79	04-01-79 03-31 -SO	156,428	29,828	, 256	
PI ICI	7901	05-79 04	95- 04-30-83	64,412	20,036	4	79
SU?P L	COUNT TS	42 3		2, 973,537	I , 132,213	4, 109,797	
L	7900	03	04-01-79 03-31-30			0	79

05-08-79

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE GRANTS > CTIVE AS OF 05-08-79
 ARRANGED IN PROGRAM ORDER
 DEVICES AND TECHNOLOGY BRANCH

GRANT NUMBER	INSTITUTION	PRINCIPAL INVESTIGATOR	ADMINISTRATOR	NHLAC	DBP	PROJ DATES	BUDGET DATES	DIRECT COST	INDIRECT COST	TOTAL AWARDED	FY
2 R01 HL 12715-10	THURSTON E, FREDRICK L.	POWELL		7805	HBU	09-73 08-81	05-01-78 05-31-79	159,592	85,755	246,347	78
	DUKE UNIVERSITY DURHAM NORTH CAROLINA DYNAMIC CARDIOVASCULAR MEASUREMENT USING ULTRASOUND										
2 R01 HL 14645-08	MARTIN, ROY W	POWELL		7810	HBU	12-78 11-81	12-01-72 1-1-3-79	71,573	20,977	92,450	79
	UNIVERSITY OF WASHINGTON SEATTLE WASHINGTON BLOOD FLOW MEASUREMENT BY ULTRASONIC CATHETER TIP PLETHOD										
5 R01 HL 14785-07	REID, JOHN M	POWELL		7800	HBU	05-76 05-79	95-01-78 05-31-79	68,173	9,723	77,896	78
	PROVIDENCE MEDICAL CENTER SEATTLE WASHINGTON ULTRASONIC SCATTERING STUDY FOR TISSUE CHARACTERIZATION										
2 R01 HL 15016-07	GRAMIAK, RAYMOND	POWELL		7805	HBU	09-78 08-81	09-01-78 08-31-79	93,496	31,318	124,814	78
	UNIVERSITY OF ROCHESTER ROCHESTER NEW YORK NEW CONCEPTS IN CARDIAC ULTRASOUND TECHNOLOGY										
2 R01 HL 16487-06	PRYOR, TALLAN	POWELL		7901	HBU	05-79 04-82	05-01-79 04-30-80	53,010	7,919	60,929	79
	INTERMOUNTAIN HEALTH CARE SALT LAKE CITY UTAH COMPUTER CONTROLLED TWO-DIMENSIONAL ECHOCARDIOGRAPHY										
5 R01 HL 16759-06	MORITZ, WILLIAM E	POWELL		7903	HBU	05-77 04-80	05-01-79 04-30-80	39,200	0	0	79
	UNIVERSITY OF WASHINGTON SEATTLE WASHINGTON ULTRASONIC MEASUREMENT OF CARDIAC GEOMETRY AND FLOW										
5 R01 HL 17604-03	WEAVER, CHARLES S	ALTIERI		7700	HBU	05-75 10-79	05-01-77 10-31-79	119,159	63,685	182,844	77
	SRI INTERNATIONAL MENLO PARK CALIFORNIA WEARABLE BLOOD PRESSURE AND ECG RECORDING SYSTEM										
5 R01 HL 18968-03	HERMAN, GABOR T	POWELL		7800	HBU	05-76 05-79	05-01-78 05-31-79	113,312	52,113	165,425	78
	STATE UNIVERSITY OF NEW YORK AT BUFFALO BUFFALO NEW YORK COMPUTER TECHNOLOGY FOR TRANSAXIAL TOMOGRAPHY										

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NATIONAL 1

INSTITUTE
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OF 05-05-79

3	1896& 3	STAT E UNIVERSITY OF N	L O #	L	7900	HBU	06-76 05-79	-01-78 05-31-79	9, 2	0	0	79	
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	RO f	190	ITY	41	61	S J							
	T	L	101	YORK									
5				LL Et?	G		L	05-78 1	05-01-79 04-30-80	S62	33,	7136	79
5	HL 19791-03	ITY	CECIL J		POWELL		7900	02-80	03-01-79 02-29-80	56,	30,567	6 s, 309	79
1	O 1:1	1:1 A 1	PAUL				L	12-78 11-91	12-01-78 11-50-79	988	40,	149, 367	79
5		- 0 3	A				L	03-77 02-80	9 02-29-9\$	58,	9s5	51,	79
5	1		L	I, RI	L		L	09-77 08-79	09-01-78 08-31-79	47,623		122	
5	RO	95-0	T		L		L	09-76 08-S 1	09-01-78 03-3 -79	995	S 1	210,676	78

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		NATIONAL	BLOOD	ACTIVE	OF 050 S7 9		
5	UNIVERSITY OF CALIFORNIA LOS ANGELES PULSED	PER, D, P L	7s0 o	09-77	S-01-78	127	
5	OF ROCHESTER BALL H	L	HEU	12-80	01-01-79 2-31-79	29,701	17,321 79
5	REV 11	L	7s00	12-77 11-79	12-01-78 11-30-79	47,516	6S,607 79
1	UNIVERSITY	JOE D		05-78 05-81	0501-7S 05-31-79	13,114	45,067 78
5	CO LO DO STATE FORT CO COL	MICHAEL B	L	7900	04-78 03-81	0401-79 05-31-80	59,140 33,241 8S,085 79
1	LAFAYETTE	J	L	7a01	HBU 08-73 07-80	08-01-7S 07-31-79	78
5	CO OF 14ED E	CRAIG J	E L	7900	HBU	03-81 05-31-89	40,692 79
1	INSTITUTE TECHNOLOGY	DON P	D L	7805	HBU	09-78 08-80	09-01-78 45,844 28,538 74,382 78
	HERO OF DISEASED CAROTID ARTERIES						

58,

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DEVICES AND TECHNOLOGY DIS!XLP
DIVISION OF HEART AND VASCULAR DISEASES
OF THE
NATIONAL HEART, LUNG, AND BLOOD INSTITUTE
BETHESDA, mARYLAND 20205

RESEARCH AND DEVELOPMENT CONTRACTS
NOVEMBER, 1980

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH

POWER SOURCES - ELECTRICAL Dr. Altieri

Dr. John Moise
Aerojet Liquid Rocket
Aerojet-General Corp.
POB 13222, Dpt 2150
Sacramento, CA 95813
(916) 355-2018
N01-HV-7-2971
Implantable Electrohydraulic Left Heart Assist
Expired: 9/29/80

Dr. Robert Jarvik
University of Utah
Inst. Biomedical Eng
Salt Lake City, UT 84112
(801) 581-6991
N01-HV-7-2975
Reversing ElectroHydraulic Energy Converter for Assist
Expired: 9/29/80

Dr. Peer H. Portner
Andros, Inc.
2332 Fourth St
Berkeley, CA 94710
(415) 849-1377
N01-HV-4-2914
Implantable Controlled Solenoid LVAs
Expired: 9/2/80

Mr. Jack Chambers
Gould Measurement Syst
Statham Instr Div
2230 Statham Blvd
Oxnard, CA 93030
(805) 487-8511
N01-HV-8-2916
Electrical Energy Converter for Heart Assist Devices
Expired: 9/18/80

Mr. Victor Poirier
Thermo Electron Corp
101 First Ave
Waltham, MA 02154
(617) 890-8700
N01-HV-7-2976
Electrical Energy Convertera for Heart Assist Devices
Expired: 9/29/80

Power SOURCES - RENEWAL Dr. Altieri

Dr. John Moise
Aerojet Liquid Rocket
Aerojet Gen Corp
POB 13222, Dpt 2150
Sacramento, CA 95813
(916) 355-2018
N01-HV-9-2909
Develop, Evaluate Stirling Cycle Conversion System
FY 80: \$893,176

Mr. Richard P. Johnston
Univ of Washington
100 Sprout Rd.
Richland, WA 99352
(509) 375-3176
N01-HV-9-2908
Develop, Evaluate Codified Cycle Engine
FY 80: \$792,306

CIRCULATORY ASSIST & ARTIFICIAL HEART DEVICES PROGRAM

Dr. Jeffrey L. Peters
Inst for Biomed Eng
University of Utah
Bldg 518
Salt Lake City, UT84112
(801) 261-3141
Single & Biventricular Cannulae Circulatory Support
5 R01 HL 23279-02

Dr. William S. Pierce
Hershey Medical Ctr
Penn State University
500 University Dr
Hershey, PA 17033
(717) 534-8328
Development and Evaluation of an Artificial Heart
2 R01 HL 20356-04

Dr. William S. Pierce
Hershey Medical Ctr
Penn State University
500 University Dr
Hershey, PA 17033
(7¹⁷) 534 8328
Left Ventricular Bypass for Myocardial Infarction
5 R01 HL 13426-11

Dr. Andreas F. Von Recum
College of Eng
Clemson University
301 Rhodes Eng Blvd
Clemson, SC 29631
(803) 656-3052
Healing of Intestinal Mucosa to a Penetrating Conduit
5 R01 HL 23646-02

Dr. Andreas F. Von Recum
College of Eng
Clemson University
301 Rhodes Eng Blvd
Clemson, SC 29631
(803) 656-3052
Treated Percutaneous Implants
1 R01 HL 25438-01

Dr. Frederick J. Walburn
Dept of Medicine
Henry Ford Hospital
2799 W. Grand Blvd
Detroit, MI 48202
(313) 876-3221
Pulsatile Flow, Separation in Branching Tubes
1 R23 HL 25839-01

THERAPEUTIC INSTRUMENTATION & DEVICES PROGRAM

Dr. Stanley A. Briller
Allegheny-Singer
Research Corp
320 E. North Ave
Pittsburgh, PA 15212
(412) 237-3146
Syntactic Pattern Analysis of 24-hr Helter Records
1 R01 HL 26066-01

Dr. K.B.Chandran
Materials Eng Div
University of Iowa
College of Eng
Iowa City, IA 52242
(319) 353-4192
Pulsatile Flow Dynamics of Prosthetic Heart Valves
1 R01 HL 26269-01

Dr. Richard E. Clark
Dept of Surgery
Washington University
4960 Audubon Ave
St Louis, MO 63110
(314) 454-3457
Advanced Cardiac Valvular and Vascular Prostheses
5 R01 HL 13803-07

Dr. Herman L. Falsetti
Dept of Internal Med
University Hospitals
Iowa City, IA 52242
(319) 356-3412
Fluid Mechanics of Heart Valve Prostheses
3 R01 HL 20829-03S1

Dr. Leslie A. Geddes
Purdue University
Biomedical Eng Ctr
W. Lafayette, IN 47907
(317) 494-6151 X212
An Automatic Implantable Blood Pressure Controller
1 R01 HL 25746-01

Dr. Howard C. Hughes
College of Medicine
Penn State University
Hershey, PA 17033
(717) 534-8328
Elimination of Reoperative Cardiac Pacemaker Surgery
6 R01 HL 13988-09

Dr. Janice L. Jones
School of Medicine
Case Western Univ
2119 Abington Rd
Cleveland, OH 44106
(216) 368-3487
Defibrillator Waveshape Optimization
5 R01 HL 24606-02

Dr. Raymond J. Kiraly
Dept. of Art. Organs
Cleveland Clinic
9500 Euclid Ave
Cleveland, OH 44106
(216) 444-2470
Hexsyn Leaflet Valve
1 R01 HL 25689-01

THERAPEUTIC INSTRUMENTATION & DEVICES PROGRAM

Dr. Victor Parsonnet
 Dept of Surgery
 Newark Beth Israel
 Medical Center
 Newark, NJ 07112
 (201) 926-7330
 Extending the Life of Implanted Pacemakers
 5 R01 HL 15247-07

Dr. Victor Parsonnet
 Newark Beth Israel
 Medical Center
 201 Lyons Ave
 Newark, NJ 07112
 (201) 926-7330
 Simulation of Pacemaker - ECG Interactions
 5 R01 HL 24567-02

Dr. Lester R. Sauvage
 Providence Med Center
 528 18th Avenue
 Seattle, WA
 (206) 326-5891
 Prosthesis for Aortocoronary Bypass
 2 R01 HL 18644-04AI

Dr. John C. Schuder
 Surgery Department
 Univ of Missouri
 Columbia, MO 65212
 (314) 882-8068
 Waveform Dependency in Defibrillating 100 KG Calves
 5 R01 HL 18040-06

Dr. John C. Schuder
 Surgery Department
 Univ of Missouri
 Columbia, MO 65212
 (314) 882-8068
 Development of Automatic Implanted Defibrillator
 5 R01 HL 21674-03

Dr. William F. Walker
 Dept Mech Eng
 Rice University
 PO BOX 1892
 Houston, TX 77001
 (713) 527-8101 x3549
 Cavitation Phenomena Near Prosthetic Devices
 5 R01 HL 17821-04

DIAGNOSTIC & MEASUREMENT INSTRUMENTATION & DEVICES PROGRAM

Dr. Herbert L. Abrams
Dept of Radiology
Petr Bent Brigham Hosp
721 Huntington Ave
Boston, MA 02115
(617) 734-8000 X2542
Cineangiographic Studies of the Cardiovascular System
5 R01 HL 20895-05

Dr. Donald W. Baker
Ctr for Bioeng
Univ of Washington
Seattle, WA 98195
(206) 543-6832
Noninvasive Cardiovascular Measurements
5 P01 HL 07293-18

Dr. Dana H. Ballard
Dept of Computer Sci
Univ of Rochester
Rochester, NY 14627
(716) 275-3772
Anatomical Models in Computer-Aided Image Analysis
5 R23 HL 21253-03

Dr. Joe D. Bourland
Biomedical Eng Ctr
Purdue University
West Lafayette, IN 47907
(317) 494-6151
Cardiac Output from the Pneumocardiogram
5 R01 HL 22321-03

Dr. Ruben D. Bunag
University of Kansas
Medical Center
College of Health Sci
Kansas City, Kansas 66103
(913) 588-7507
Non-Invasive Blood Pressure Measurement
5 R01 HL 22854-02

Dr. David A. Chesler
Physics Research Lab
Mass General Hospital
Boston, MA 02114
(617) 726-3805
Gated Imaging with the MGH X-Ray Camera
5 R01 HL 20274-03

Dr. B. Neil Cuffin
Mass Inst of Tech
170 Albany St
Cambridge, MA 02139
(617) 253-5562
Accuracy of Electric & Magnetic heart Measurements
2 R23 HL 24645-02

Dr. Cornelis J. Drost
Dept Physiology
NY State Vet College
Cornell University
Ithaca, NY 14853
(607) 256-2121
Accurate Transcutaneous Doppler Bloodflow Monitoring
5 R01 HL 19019-05

DIAGNOSTIC & MEASUREMENT INSTRUMENTATION & DEVICES PROGRAM

Dr. Nancy C. Flowers
U of Louisville
School of Medicine
323 E. Chestnut St
Louisville, KY 40202
(502) 589-4668
Recording & Analysis of Low Level Cardiac Signals
2 R01 HL 19768-04

Dr. Fred K. Forster
U of Washington
Dept of Mech Eng
Seattle, WA 98195
(206) 543-4910
Fluid Dynamic-Ultrasonic Aspects of Blood Turbulence
1 R23 HL 26706-01

Dr. Leslie A. Geddes
Biomedical Eng Ctr
Purdue University
West Lafayette, IN 47907
(317) 494-6151 x321
Indirect Mean Blood Pressure
2 R01 HL 18947-03

Dr. Edward A. Geiser
Dept. of Medicine
University of Florida
Gainesville, FL 32610
(904) 392-3481
3-D Analysis of Ventricular Contractile Performance
1 R23 HL 25621-01

Dr. Don P. Giddens
Sch of Aerospace Eng
Georgia Inst of Tech
Atlanta, GA 30332
(404) 894-3044
Hemodynamics of Normal and Diseased Carotid Arteries
5 R01 HL 22635-02

Dr. Raymond Gramiak
Univ of Rochester
601 Elmwood Ave
Rochester, NY 14642
(716) 275-2625
New Concepts in Cardiac Ultrasound Technology
5 R01 HL 15016-09

Dr. Craig J. Hartley
Dept of Medicine
The Methodist Hosp
6516 Bertner
Houston, Tx 77030
(713) 790-3252
Ultrasonic Instrumentation for Cardiovascular Studies
5 R01 HL 22512-03

Dr. Gabor T. Herman
Dept of Computer Sci
SUNY at Buffalo
4226 Ridge Lea
Amherst, NY 14226
(716) 831-1351
Computer Technology for Transaxial Tomography
5 R01 HL 18968-05

DIAGNOSTIC & MEASUREMENT INSTRUMENTATION & DEVICES PROGRAM

Dr. Michael B. Histan
Dept of Mech Eng
Colorado State Univ
Fort Collins, CO 80523
(303) 491-5544
Noninvasive Measurement of Cardiac Output
5 R01 HL 22326-03

Dr. Cecil J. Hodson
Yale University
333 Cedar Street
New Haven CT 06510
(203) 432-4364
Ultrasonic Monitoring of Visceral Blood Vessels
5 R01 HL 19791-03

Dr. Adrian Kantrowitz
Dept Cardiovasc Surg
Sinai Hosp of Detroit
6767 West Outer Dr
Detroit, MI 48235
(313) 493-5775
Quantitating In-Series Effects in Cardiac Arrhythmias
5 R01 HL 22274-02

Dr. Antti J. Koivo
School of Elec Eng
Purdue Univ
West Lafayette, IN 47907
(317) 493-9156
The Use of Microprocessors in Medical Applications
1 R01 HL 22417-01

Dr. Paul C. Lauterbur
Dept of Chemistry
SUNY at Stony Brook
Stony Brook, NY 11794
(516) 246-5061
Cardiovascular NMR Zeugmatography
5 R01 HL 19851-02

Dr. Richard L. Longini
Biotechnology Program
Carnegie-Mellon Univ
Pittsburgh, PA 15213
(412) 578-2528
An Optimal Fetal Heart Monitor
2 R01 HL 20632-03

Dr. Roy W. Martin
Dept Anesthesiology
U of Washington
Seattle, WA
(206) 545-1883
Blood Flow Measurement by Ultrasonic Catheter Tip Method
5 R01 HL 14645-09

Dr. William E. Moritz
Dept of Elec Eng
Univ of Washington
Seattle, WA 98195
(206) 543-6049
Ultrasonic Measurement of Cardiac Geometry and Flow
5 R01 HL 16759-06

DIAGNOSTIC & MEASUREMENT INSTRUMENTATION & DEVICES PROGRAM

Dr. P. David Myerowitz
U of Wisconsin
Department of Surgery
600 Highland Ave
Madison, WI

(608) 263-5215

Noninvasive Computerized Fluoroscopic Cardiac Imaging
1 R01 HL 26586-01

Dr. Erick L. Ritman
Dept of Physiology
Mayo Foundation
200 First St. SW
Rochester, MN 55901

(507) 284-3495

Cardiovascular and Lung Dynamics
2 P01 HL 04664-20

Dr. Charles P. Olinger
Dept of Neurology
Univ of Cincinnati
4305 Med Sci Bldg
Cincinnati, Ohio 45267

(513) 872-5431

Computer Aided Bioacoustic Arterial Diagnostics
5 R01 HL 23671-02

Dr. William P. Santamore
Temple University
Philadelphia, PA
(215) 221-4724

Ventricular Interdependence

1 R01 HL 26592-01

Dr. T. Allan Pryor
Dept of Biophysics
Latter-Day Saint Hosp
325 8th Ave
Salt Lake City, UT 84143

(801) 322-5761 X255

Computer Controlled Two-Dimensional Echocardiography
2 R01 HL 16487-06

Dr. Richard K. Shaw
School of Medicine
Yale University
333 Cedar Street
New Haven, CT 06510

(203) 436-8259

Long Term Assessment of Flow in Vascular Grafts
5 R01 HL 22352-02

Dr. John M. Reid
Inst of Applied
Physiology & Medicine
556 18th Avenue
Seattle, WA 98122

(206) 442-7340

Ultrasonic Scattering Studies for Tissue Characterization
5 R01 HL 24805-02

Dr. Richard J. Spears
Dept of Cardiology
USC Schl of Medicine
2025 Zonal Ave
Los Angeles, CA 90033

(213) 226-2152

Non Analysis of Single Plane Coronary Cineangiograms
1 R23 25272-01

DIAGNOSTIC & MEASUREMENT INSTRUMENTATION & DEVICES PROGRAM

Dr. Donald E. Strandness
Dept of Surgery
Univ of Washington
Seattle, WA 98195
(206) 543-3653
Ultrasonic Evaluation in Direct Arterisl Surgery
2 R01 HL 20898-03

Dr. Mark L. Yelderman
Dpt of Anesthesia
Stanford University
Stanford, CA 94305
(415) 497-6411
A Continuous Cardiac Output Monitor
5 R01 HL 24798-02

Dr. Louis E. Teichholz
Dept of Med
Pit Sinai Schl of Med
1 Gustave L Levy P1
New York, NT 10029
(212) 650-7785
Pulse-Doppler Analysis of Left Ventricular Function
1 R01 HL 25277-01

Dr. Fredrick L. Thurstone
Biomedical Eng Dept
Duke University
Durham, NC 27706
(919) 684-6185
Dynamic Cardiovascular Measurement Using Ultrasound
5 R01 HL 12715-12

Dr. John G. Webster
Dept. of Elec. Eng.
U of Wisconsin
1500 Johnson Dr.
Madison, WI 53706
(608) 263-1574
Portable Arrhythmia Monitor
1 R01 HL 25691-01

BIOMATERIALS PROGRAM

Dr. Clarence P. Alfrey
Dept of Internal Med
Methodist Hospital
6516 Bertner
Houston, TX 77030
(713) 790-2155
Effects of Physical Forces on Blood
5 R01 HL 16938-05

Dr. Harry R. Allcock
Dept of Chemistry
Penn State Univ
University Park, PA 16802
(814) 865-3527 "
Polydiaminophosphazenes
5 R01 HL 11418-11

Dr. Joseph D. Andrade
Dpt of Bioengineering
University of Utah
Salt Lake City, UT 84112
(801) 581-8509
Synthetic Hydrogels as Blood Tolerable Materials
5 R01 HL 16921-06

Dr. Joseph D. Andrade
Dpt of Bioengineering
University of Utah
Salt Lake City, UT 84112
(801) 581-8509
Albumin and Hemocompatibility
2 R01 HL 18519-05

Dr. Joseph D. Andrade
Dpt of Bioengineering
University of Utah
Salt Lake City, UT 84112
(801) 581-8509
Blood Interactions of Triblock Polymers
5 R01 HL 24474-02

Dr. Robert E. Apfel
Eng & Applied Sci Dpt
Yale University
New Haven, CT 06520
(203) 436-8674
Characterization of Biomaterials by Elastic Property
5 R01 HL 22233-03

Dr. John Autian
College of Pharmacy
Univ of Tennessee
Ctr for Health Sci
Memphis, TN 38163
(901) 528-6020
Acute Toxicity Evaluation of Biomaterials
5 R01 HL 24040-02

Dr. Sumner A. Barenberg
Dept of Chemical Eng
Univ of Michigan
Ann Arbor, Michigan 48109
(313) 764-7391
Polyorganophosphazenes ; Molecular Motion & Thrombosis
5 R01 HL 23288-02

BIOMATERIALS PROGRAM

Dr. William E. Burkel
Dept of Anatomy
Univ of Michigan
4734 Medical Sci II
Ann Arbor, MI 48109
(313) 764-4379
Development of Cell-Lined Vascular Prostheses
3 R01 HL 23345-02S1

Dr. Allan D. Callow
Dept of Surgery
New Eng Med Ctr Hosp
171 Harrison Ave
Boston, MA 02111
(617) 956-5596
Platelet-Fibrin Dynamics in Healing Arterial Surfaces
5 R01 HL 24447-02

Dr. Hanson Y.K. Chuang
Dept of Pathology
University of Utah
School of Medicine
Salt Lake City, UT 84112
(801) 581-7773
Plasma Proteins Adsorbed to Artificial Organs
7 R01 HL 25808-01

Dr. Hanson Y.K. Chuang
Dept of Pathology
University of Utah
Salt Lake City, UT 84112
(801) 581-7773
Interaction: Prothrombin, Thrombin, ATIII & Materials
1 R01 HL 25807-01

Dr. Stusrt L. Cooper
Dept of Chem Eng
Univ of Wisconsin
1415 Johnson Dr
Madison, WI 53706
(608) 262-3641
Protein and Thrombus Deposition on Vascular Graft
5 R01 HL 21001-03

Dr. Stuart L. Cooper
Dept of Chem Eng
Univ of Wisconsin
1415 Johnson Dr
Madison, WI 53706
(608) 262-3641
Transient Thrombotic Events at Polymeric Surfaces
5 R01 HL 24046-02

Dr. W. Jean Dodds
Div of Lab & Research
NY St Dept of Health
Empire St Plaza
Albany, NY 12201
(518) 457-2663
Blood-Materials Interactions: The Bridge Problems
5 R01 HL 24017-02

Dr. Robert C. Eberhart
Dept of Mech Eng
University of Texas
Eng Sci Bldg 610
Austin, TX 78712
(512) 471-7167
Analysis of Blood Trauma From Microporous Oxygenators
5 R01 HL 19173-04

BIOMATERIALS PRO(WWb)

Dr. Eugene C. Eckstein
 Biomedical Eng Dept
 University of Miami
 PO Box 248294
 Coral Gables, FL 33124
 (305) 284-2442
 Platelet Concentration in the Marginal Layer
 2 R01 HL 22455-03

Dr. L. Henry Edmunds
 Dept of Surgery
 University of PA
 3400 Spruce St
 Philadelphia, PA 19104
 (215) 662-2091
 Platelet Function During Extracorporeal Perfusion
 5 R01 HL 19055-05

Dr. Suzanne Gaston Eskin
 Dept of Surgery
 Baylor College of Med
 1200 Moursund
 Houston, TX 77030
 (713) 790-4567
 Response of Cultured Endothelial Cells to Flow
 5 R01 HL 23016-02

Dr. Evan A. Evans
 Dept of Biomed Eng
 Duke University
 Durham, NC
 (919) 684-5218
 RBC Membrane Adhesion & Deformation Energies
 1 R01 HL 24796-01

Dr. John L. Glover
 Purdue University
 at Indianapolis
 Indianapolis, IN
 (317) 630-7491
 Seeding of Endothelial Cells in Vascular Prostheses
 1 R01 HL 24247-01A1

Dr. Donald E. Gregonis
 University of Utah
 Salt Lake City, UT
 (801) 581-7899
 Basic Studies on Blood-Polymer Interactions
 1 R01 HL 26469-01

Dr. Frederick Grinnell
 Dept of Cell Biology
 University of Texas
 5323 HarryHines Blv
 Dallas, TX 75235
 (214) 688-2181
 Blood-Material Interactions: Adsorption of Fibronectin
 5 R01 HL 24221-02

Dr. Jesse D. Hellums
 Dept of Chem Eng
 Rice University
 PO Box 1892
 Houston, TX 77001
 (713) 527-3497
 Effects of Physical Forces on Platelets
 5 R01 HL 18584-05

BIOMATERIALS PROGRAM

Dr. Anne P. Hiltner
Dept Macromolec Sci
Case Western Res Univ
University Circle
Cleveland, OH 44106
(216) 368-4186
Long Term Biodegradation of Elastomeric Biomaterials
1 R01 HL 25239

Dr. Cornelis A. Hoeve
Dept of Chemistry
Texas A&M University
College Station, TX 77843
(713) 845-3243
Guidelines for Polymers Acting as Elastin Substitutes
5 R01 HZ 18441-03

Dr. Allan S. Hcoffman
Bioengineering Ctr
Univ of Washington
Seattle, WA 98195
(206) 543-9423
Surface Thrombogenesis Mechanisms and Prevention
5 P01 HL 22163-03

Dr. Thomas A. Horbett
Dept of Chem Eng
Univ of Washington
Seattle, WA 98195
(206) 543-6419
Cellular Interactions with Foreign Materials
2 R01 HL 19419-05

Dr. Ting-Cheng Hung
School of Medicine
U of Pittsburgh
Pittsburgh, PA 15261
(412) 624-5369
Study of Leukocyte Degradation Characteristics
1 R01 HL 25814-01

Dr. Lucija Stacic Karic
Inst of Med Sciences
Pacific Medical Ctr
Clay & Webster Sts
San Francisco, CA 94120
(415) 563-2323 X2416
Extracorporeal Circulation & Protein Denaturation
5 R23 HZ 21271-03

Dr. Sung Wan Kim
School of Pharmacy
University of Utah
Skaggs Hall
Salt Lake City, UT 84112
(801) 581-6801
Initial Events in Thrombus Formation on Surfaces
5 R01 HL 17623-07

Dr. Sung W. Kim
School of Pharmacy
University of Utah
Skaggs Hall
Salt Lake City, UT 84112
(801) 581-6801
A Novel Approach to Nonthrombogenic Polymer Surfaces
2 R01 HL 20251-04

DEVICES AND TECHNOLOGY BRANCH
DIVISION OF HEART AND VASCULAR DISEASES
OF THE
NATIONAL HEART, LUNG, AND BLOOD INSTITUTE
BETHESDA, MARYLAND 20205

RESEARCH AND DEVELOPMENT GRANTS
NOVEMBER, 1980

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH

CIRCULATORY ASSIST & ARTIFICIAL HEART DEVICES PROGRAM

Dr. William F. Bernhard
Childrens Hospital
Medical Center
300 Longwood Ave
Boston, MA 02115
(617) 734-6000 X3261
Evaluation of a Left Ventricular-Aortic Prosthesis
5 R01 HL 20037-03

Dr. William F. Bernhard
Children's Hospital
Medical Center
300 Longwood Avenue
Boston, MA 02115
(617) 734-6000 X3261
Clinical Left Ventricular Bypass Studies
1 R01 HL 25882-01

Dr. Erich E. Brueachke
St. Lukes Medical Ctr
1753 W Congress Pk
Chicago, IL 60612
(312) 942-7083
Development of a Transcutaneous Power Transfer System
5 R01 HL 21632-03

Dr. John E. Chimoskey
Dept of Physiology
Michigan State Univ
East Lansing, MI 48824
(517) 355-9269
Left Heart Failure Model for Testing Assist Devices
5 R01 HL 24503-02

Dr. C. Forbes Dewey
Dept Mechanical Eng
Mass Inst of Tech
Room 3-250
Cambridge, MA 02139
(617) 253-2235
Unsteady Flow in Arterial Bifurcations
5 R01 HL 21859-03

Dr. William H. Dobelle
Dept of Surgery
Columbia University
630 West 168th St
New York, NY 10032
(212) 694-4198
Simple Cardiac Assist (TALVB) Devices in Man
5 R01 HL 23941-02

Dr. Leonard A.R. Gelding
Dept Cardiothor Surg
Cleveland Clinic
4500 Euclid Ave
Cleveland, OH 44106
(216) 444-6915
Physiological Studies of Chronic Nonpulsatile Blood Flow
1 R01 HL 26267-01

Dr. Robert K. Jarvik
Inst Biomedical Eng
University of Utah
Bldg 518
Salt Lake City, UT 84112
(801) 581-6991
Studies with Electric Total Artificial Hearts
5 R01 HL 24338-02

CIRCULATORY ASSIST & ARTIFICIAL HEART DEVICES PROGRAM

Dr. Adrian Kantrowitz
 Dept of Surgery
 Sinai Hosp of Detroit
 6767 W Outer Dr
 Detroit, MI 48235
 (313) 272-6000 X8205
 Active Prosthetic Myocardium: Effects on LV Function
 5 R01 HL 22329-02

Dr. Willem Kolff
 Inst for Biomed Eng
 University of Utah
 Bldg 518
 Salt Lake City, UT 84112
 (801) 581-6296
 Intra Aortic Balloon Pumping in Small Animals
 5 R01 HL 20803-04

Dr. Willem Kolff
 Inst for Biomed Eng
 University of Utah
 Bldg 518
 Salt Lake City, UT 84112
 (801) 581-6991
 Studies Towards An Acceptable Artificial Heart for Man
 2 P01 HL 13738-09

Dr. Bayliss C. McInnis
 Cullen College of Eng
 University of Houston
 4800 Calhoun
 Houston, TX 77004
 (713) 749-1574
 Automatic Controls for the Artificial Heart
 1 R01 HL 25029-01A1

Dr. J. D. Mortensen
 Utah Biomed Test Lab
 520 Wakara Way
 Salt Lake City, UT 84108
 (801) 581-6190
 Chronic Total Cardiopulmonary Mechanical Substitution
 5 R01 HL 22661-02

Dr. Yukihiro Nose
 Dept Artificial Orgns
 Cleveland Clin Found
 9500 Euclid Ave
 Cleveland, OH 44106
 (216) 444-2470
 Biventricular Assist and Replacement Studies
 5 R01 HL 24286-02

Dr. Don B. Olsen
 Div Artificial Orgns
 University of Utah
 Salt Lake City, UT 84112
 (801) 581-6991
 Artificial Heart Implants for Cardiac Transplant
 1 R01 HL 24419-02

Dr. Don B. Olsen
 Div Artificial Orgns
 University of Utah
 Salt Lake City, UT 84112
 (801) 581-6991
 Studies of the Pneumatic Artificial Heart in Calves
 1 R01 HL 24561-01

BLOOD PUMPS - Dr. Watson

Dr. Peer M. Portner
Andros, Inc.
2332 Fourth Street
Berkley, CA 94710
(415) 849-1377
N01-HV-7-2938
Development of a Left Heart Assist Blood Pump
Expired: 9/14/80

Mr. Robert L. Whalen
Thermo Electron Corp
101 First Ave
Waltham, MA 02154
(617) 890-8700
N01-HV-7-2934
Development of a Left Heart Assist Blood Pump
FY 80: -0-

Dr. David Lederman
Avco Everett Res Lab
2385 Revere Bch Pkw
Everett, MA 02149
(617) 389-3000
N01-HV-7-2937
Left Heart Assist Blood Pumps
Expired: 9/14/80

Dr. Philip Litwak
Thoratec Labs Corp
2023 8th Street
Emeryville, CA 94710
(415) 658-7787
N01-HV-7-2939
Develop and Evaluate Left Heart Assist Blood Pumps
FY 80: -0-

Dr. Yukihiro Nose
Cleveland Clinic Fndn
9500 Euclid Ave
Cleveland, OH 44106
(216) 444-2470
N01-HV-4-2960
Development & Evaluation of Cardiac Prostheses
Expired: 9/29/80

Dr. John C. Norman
Texas Heart Inst
6720 Bestner St
Houston, TX 77030
(713) 521-3121
N01-HV-7-2936
Left Heart Assist Device Development
Expired: 9/29/80

FABRICATION - Dr. Altieri

Mr. Victor Poirier
Thermo Electron Corp.
101 First Ave.
Waltham, MA 02154
(617) 890-8700
N01-HV-9-2907
Fabrication of Cardiovascular Devices
FY 80: \$292,156

Mr. Keith S. Buck
Thoratec Labs Corp.
4204 Hollis St.
Emeryville, CA 94608
(415) 658-7787
N01-HV-9-2906.
Fabrication of Cardiovascular Devices
FY 80: \$207,821

CLINICAL EVALUATION: LEFT VENTRICULAR ASSIST DEVICES - Dr. Watson

Dr. William F. Bernhard

Childrens Hospital

Medical Center

300 Longwood Ave

Boston, MA 02115

(617) 734-6000 X3261

N01-HV-5-3007

Clinical Evaluation: Model X LVAD

FY 80: \$23,068

Expired: 6/30/80

Dr. John C. Norman

Texas Heart Inst

6720 Bestner Street

Houston, TX 72025

(713) 521-3121

N01-HV-5-3006

Clinical Evaluation: Model VII LVAD

FY 80: \$32,053

Expired: 6/30/80

Mr. John M. Keiser

Thermo Electron Corp

101 First Ave

Waltham, MA 02154

(617) 890-8700 X409

N01-HV-5-3008

LVAD: Clinical Evaluation of Temporary Assist

FY 80: \$31,809

Expired: 6/30/80

IMPLANTABLE LEFT HEART ASSIST SYSTEMS - Dr. Altieri, Dr. Watson

Dr. John Moise
 Dr. Yukihiko Nose
 Aerojet General Corp
 POB 1322.2 Dept 2150
 Sacramento, CA 95813
 (919) 355-2018
 N01-HV-0-2911
 Implantable Electrohydraulic Left Heart Assist Device
 FY 80: \$1,076,181

Dr. John C. Norman
 Mr. Jack Chambers
 Texas Heart Institute
 6720 Bestner St
 Houston, TX 77030
 (713) 521-3121
 N01-HV-0-2915
 Implantable Left Heart Assist Device
 FY 80: \$893,361

Dr. Peer Portner
 Andros, Inc.
 2332 Fourth St
 Berkeley, CA 94710
 (415) 849-1377
 N01-HV-0-2908
 Implantable Left Heart Assist Syatem
 FY 80: \$1,044,718

Mr. David B. Oernes
 Dr. William F. Bernhard
 Thermo Electron Corp.
 101 First Ave
 Waltham, MA 02154
 (617) 890-8700
 N01 NV-0-2914
 Implantable Left Heart Assist Device
 FY 80: \$1,083,466

Dr. Param ISingh
 Dr. David Lederman
 Avco Everett Res Lab
 2385 Revere Bch Pkw
 Everett, MA 02149
 (617) 389-300
 N01-HV-0-2913
 Implantable Left Heart Assist Device
 FY 80: \$1,038,454

PHYSICAL TESTING - Dr. Watson

Dr. Carl R. McMillin
Monsanto Res Corp
1515 Nicholas Rd
Dayton, OH 45407
(513) 268-3411 x211
N01-HV-7-2918

Physical Testing of Circulatory Assist Device Polymers
Expired: 8/31/80

Dr. Robert W. Penn
Natl Bureau of Stnds
Materials Res Inst
Gaithersburg, MD 20760
(301) 921-2116
Y01-HV-8-0003

Physical Testing of Circulatory Assist Device Polymers
Expired: 9/30/80

Dr. John L. Kardos
Washington University
Linden & Skinker
St. Louis, MO 63130
(314) 863-0100 x4577
N01-HV-7-2919

Physical Testing of Circulatory Assist Device Polymers
Expired: 8/31/80

PHYSICAL TESTING - Dr. Altieri

Dr. Carl R. McMillan
Monsanto Res Corp
1515 Nicholas Rd
Dayton, OH 45407
(513) 268-3411 x211
N01-RV-0-2909
Physical Testing of Circulatory Assist Device Polymers
PY 80: \$208,762

Dr. John L. Kardoa
Washington University
Linden & Skinker
St Louis, MO 63130
(314) 889-6062
N01-HV-0-2910
Physical Testing of Circulatory Assist Device Polymers
PY 80: \$145,992

ENERGY TRANSMISSION - Dr. Berson

Dr. Peer M. Portner
Andros, Inc
2332 Fourth Street
Berkeley, CA 94710
(415) 849-1377
N01-NV-7-2933
Electrical Energy Transmission Technique Development
FY 80: \$219,323

Dr. Adrian Kantrowitz
Sinai Hosp of Detroit
6767 West Outer Dr
Detroit, MI 48235
(313) 493-5775
N01-NV-8-2921
Percutaneous Energy Transmission Systems
FY 80: \$116,263

Dr. Benedict D.T. Daly
St Elizabeth's Hosp
736 Cambridge St
Boston, MA 02135
(617) 956-5589
N01-HV-8-2919
Percutaneous Energy Transmission Systems
FY 80: \$141,092

Dr. Freeman Fraim
Thermo Electron Corp
101 First Ave
Waltham, MA 02154
(617) 890-8700
N01-HV-0-2903
Develop, Evaluate Transcutaneous Energy Transmission System
FY 80: \$202,507

INSTRUMENTATION - Dr. Berson

Dr. Ralph W. Barnes
Bowman Gray
School of Medicine
300 Hawthorne Rd
Winston-Salem, N.C. 27103
(919) 727-4504
N01-HV-1-2902
Noninvasive Detection of Atherosclerotic Lesions
FY 81: \$296,830

Dr. Charles A. Histretta
Univ of Wisconsin
Clinical Science Ctr
600 Highland Ave
Madison, WI 53706
(608) 263-8309
N01-HV 1-2905
Noninvasive Detection of Atherosclerotic Lesions
FY 81: \$296,830

Dr. John D. Hestenes
Calif Inst of Tech
Jet Propulsion Lab
4800 Oak Grove Dr
Pasadena, CA 91103
(213) 354-2961
Imaging of Deep Arterial Lesions by Swept Ultrasound

Dr. William R. Brody
Stanford University
Dept of Radiology
Stanford, CA 94305
(415) 497-5226
N01-HV-0-2922
Energy Selective Methods for Intravenous Arteriography
FY 80: \$246,359

Dr. Donald Sashin
Univ of Pittsburgh
RC 406 Scafe Hall
Pittsburgh, PA 15621
(412) 647-3490
N01-HV-0-2929
Noninvasive Detection of Atherosclerotic Lesions
FY 80: \$181,251

INSTRUMENTATION - Mr. Powell

Dr. Ralph W. Barnes
Bowman Gray
School of Medicine
300 S Hawthorne Rd
Winston Salem, N.C. 27103
(919) 727-4504
N01-HV-7-2925

Ultrasonic Imaging and Arterial Measurements
Expired: 9/14/80

Dr. Frank E. Barber
Harvard Med School
44 Bimey St
Boston, MA 02115
(617) 732-3582

N01-HV-7-2927
Ultrasonic Imaging and Tissue Characterization
Expired: 9/29/80

Dr. John M. Reid
Institute of Applied
Physiology & Medicine
701-16th Ave
Seattle, WA 98122
(206) 442-7330

N01-HV-7-2926
Ultrasonic Doppler Imaging with Automatic Line Scanning
Expired: 9/14/80

Dr. Titus C. Evans
Mayo Foundation
200 First Ave.
Rochester, MN 55901
(507) 282-2511

N01-HV-7-2928
Ultrasonic Imaging with Flow Velocity Profiles
Expired: 9/17/80

Dr. David Wilson
SRI International
Bioengineering Res
333 Ravenswood Ave
Menlo Park, CA 94025
(415) 326-6200 X4918
N01-HV-2900

Duplex B-Scan Imaging System for Abdominal Arteries
FY 81: \$346,130

Dr. Leon Kaufmann
Univ of Calif at SF
400 Grandview Dr
San Francisco, CA 94080
(415) 952-1366

N01-HV-0-2928
Noninvasive Detection of Atherosclerotic Lesions
N 80: \$87,361

Dr. Charles P. Olinger
Univ of Cincinnati
Stroke Research Lab
4303 Field Sci Bldg
Cincinnati, OH 45267
(513) 872-5431

N01-HV-7-2924
Ultrasonic Imaging with Flow & Tissue Characterization
FY 80: \$266,478
Expired: 9/1/80

Dr. Martin D. Fox
Univ of Connecticut
School of Eng
Storrs, CT 06268
(203) 486-4821
N01-HV-7-2929
Crossed Beam Doppler and Sector Scans
Expired: 9/1/80

INSTRUMENTATION - Mr. Powell

Dr. David H. Blankenhorn
Univ of So. Cal.
2025 Zonal Ave
Los Angeles, CA 90033
(213) 224-7315
N01-NV-7-2930
Enhanced X-ray Images and Ultrasonic Tissue Parameters
Expired: 9/29/80

Dr. Theron W. Ovitt
University of Arizona
Dept of Radiology
Tucson, AZ 85724
(602) 626-6007
N01-HV-7-2931
Electronic X-ray Imaging & New Contrast Agents
Expired: 9/1/80

Dr. Theron W. Ovitt
Univ of Arizona
Dept of Radiology
Health Sciences Ctr
Tucson, AZ 85724
(602) 626-6007
N01-NV-1-2901
Noninvasive Detection of Atherosclerotic Lesions
FY 81: \$257,159

BIOMATERIALS - Dr. Pitlick

Dr. Peter Madras
Dr. Robert C. Cumming
Avco Everett Res Lab
2385 Revere Bch Pkw
Everett, MA 02149
(617) 389-3000
N01-HV-0-2912
Blood Compatibility of Circulatory Assist Devices
FY 80: \$142,885

Dr. Edward W.C. Wong
Avco Everett Res Lab
2385 Revere Bch Pkw
Everett, MA 02149
(617) 389-3000 X765
N01-HV-9-2932
Procurement of Standard Reference Materials
FY 80: \$81,968

Dr. George Herzlinger
Avco Everett Res. Lab
2385 Revere Bch Pkw
Everett, MA 02149
(617) 389-3000 X305
N01-HV-9-2901
Complement-Biomaterial Interaction
Expired: 3/31/80

Mr. Axel D. Haubold
Carbomedics
11388 Sorrento Vail
San Diego, CA 92111
(714) 452-8484
N01-HV-4-2928
Carbon Film Composites for Prosthetic Devices
Expired: 4/30/80

Dr. G. C. Berry
Carnegie-Mellon Inst.
4400 Fifth Avenue
Pittsburgh, PA 15213
(412) 578-3131
N01-HV-3-2949
Interpenetrating Polymer Networks for Biological Application:
Expired: 3/31/80

Dr. Paul Didisheim
Mayo Foundation
200 First St. , SW
Rochester, MN 55901
(507) 284-3049
N01-HV-9-2915
Blood Compatibility of Circulatory Assist Devices
FY 80: \$137,687

Mr. Robert S. Ward
Thoratec Labs Corp.
2023 Eighth Street
Berkeley, CA 94710
(415) 658-7787
N01-HV-9-2933
Procurement of Standard Reference Materials
FY 80: \$237,248

f310MATERIALS - Mr. Powell

Mr. Michael Szycher
Thermo Electron Corp.
101 First Ave
Waltham, MA 02154
(617) 890-8700
N01-HV-32915
Development & Testing of Integrally Textured Blood Pump Bladders
FY 80: -0-

BIOMATERIALS PROGRAM

Dr. William W. Lee
Stanford Res Inst
333 Ravenswood Ave
Menlo Park, CA 94025
(413) 326-6200
Blood Compatible Benzamidine Containing Polymers
5 R01 HL 21769-03

Dr. Robert I. Leininger
Battelle Mem Inst
Columbus Laboratories
505 King Avenue
Columbus, OH 43201
(614) 424-7138
An Evaluation of Blood-Surface Interactions
5 R01 HL 24015-02

Dr. Jane B. Lian
Dept of Surgery
Childrns Hosp Med Ctr
300 Longwood Ave
Boston, MA 02115
(617) 734-6000 X3619
Blood-Material Interactions
5 R01 HL 24029-02

Dr. Reginald G. Mason
Dept of Pathology
University of Utah
School of Medicine
Salt Lake City, UT 84112
(801) 581-7773
Endothelial Linings for Artificial Organs
7 R01 HL 25805-01

Dr. Reginald G. Mason
Dept of Pathology
University of Utah
School of Medicine
Salt Lake City, UT 84112
(801) 581-7773
An Inhibitor of Platelet Adhesion to Artificial Organs
7 R01 HL 25806-01

Dr. Larry V. McIntire
Dept of Chem Eng
Rice University
PO Box 1892
Houston TX 77001
(713) 528-4141 X410
Perfusion Lung: Role of Traumatized Leukocytes
5 R01 HL 17437-05

Dr. Syed Fazal Mohammad
Dept of Pathology
University of Utah
Salt Lake City, UT 84112
(801) 581-7773
Platelet Factor 3 and Blood-Material Interactions
1 R01 HL 25804-01

Dr. John A. Penner
Dept of Medicine
College of Human Med
B220 Life Sciences
E. Lansing, MI 48824
(517) 353-6625
Control of Clotting on Biomaterials by Anticoagulants
7 R01 HL 27042-01

BIOMATERIALS PROGRAM

Dr. Ronald P. Quintana
Dept Medicinal Chem
Univ of Tennessee
Center for Hlth Sci
Memphis, TN 38163
(901) 528-6085
Surface-Active Antithrombotic Agents for Prostheses
5 R01 HL 22236-02

Dr. Ronald P. Quintana
U of Tennessee
Ctr for Health Sci
800 Madison Avenue
Memphis, TN 38163
(901) 528-6085
Moieties Affecting Platelet - Biomaterial Interactions
1 R01 HLGM 25884-01

Dr. Robert Rodvien
Heart Research Inst
Inst of Medical Sci
2200 Webster St
San Francisco, CA 94114
(415) 563-2323 X2420
Blood-Material Interactions
5 R01 HL 24018-02

Dr. Edwin W. Salzman
Mass Inst Technology
Bldg 16 Rm 522
Cambridge, MA 02139
(617) 735-2000
Thromboresistant Materials
5 R01 HL 20079-04

Dr. Jerome S. Schultz
Dept of Chemical Eng
Univ of Michigan
2020 G.C. Brown Lab
Ann Arbor, MI 48109
(313) 764-2383
Effect of Flow on Fibrin Formation
1 R01 HL 23379-01

Dr. Jerome S. Schultz
Dept of Chemical Eng
Univ of Michigan
2020 G C Brown Lab
Ann Arbor, MI 48109
(313) 764-2383
Blood Material Interface Interactions
5 R01-HL 24039-02

Dr. Michael V. Sefton
Dept of Chemical Eng
University of Toronto
Toronto, Ontario MFS IA4
(416) 978-4019
Heparinized Material - Blood Interaction
5 R01 HL 24020-02

Dr. Kenneth A. Solen
Dept of Chemical Eng
Brigham Young Univ
350 CB
Provo, UT 84602
(801) 378-1211 X2587
Pulsatile Pressures in Microemboli Filtrations
1 R01 HL 25912-01

BIOMATERIALS PROGRAM

Dr. Robert E. Sparks
Dept of Chemical Eng
Washington University
Linden & Skinker
St. Louis, MO 63130
(314) 889-6003
Biosorbable Thromboresistant Surfaces
5 R01 HL 18764-05

Dr. Salvatore P. Suter
Dept of Mech Eng
Washington University
Box 1185
St. Louis, MO 63130
(314) 863-0100 X4343
Blood Cells: Physical Properties, Structure & Function
5 R01 HL 12839-11

Dr. Leo Vroman
Downstate Medical Ctr
450 Clarkson Ave
Brooklyn, NY 11203
(212) 836-6600 X223
Flow and Flexing at Blood/Biomaterial Interface
5 R01 HL 23899-03

Dr. Alan G. Walton
Dpt Macromoleclr Sci
Case Western Res Univ
801 Olin Bldg
Cleveland, OH 44106
(216) 368-4166
Program Project in Biological Materials
5 P01 HL 15195-04

Dr. Michael C. Williams
Dept of Chem Eng
Univ of California
Berkeley, CA 94720
(415) 642-4525
Hemolysis Induced by Shear Flow
5 R01 HL 23274-02

Dr. Joseph E. Wilson
Dept of Chemistry
Bishop College
3837 Simpsn-Strt Rd
Dallas, TX 75241
(214) 372-8170
Development of Antithrombogenic Plastic Biomaterials
2 R01 HL 21194-03

Dr. Ioannis V. Yannas
Dept of Mech Eng
MIT
77 Mass Ave
Cambridge, MA 02139
(617) 253-4469
Thrombogenic/Non-thrombogenic Collagen Fibers
5 R01 HL 24036-02