ases in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
2	Temple U.	Schwarcz	AB	05 81/05 81	DHEA as Anticancer Agent

Cases in Order of Receipt

ed	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
82	NY Botanical Garden	Seaman/Malcolm/Fischer	BMK	01 83/	Tomexanthin
82	Virginia Commonwealth U.	Moore	BMK	none/none	Procedure for Developing Porous Surfaces
82	Princeton U.	Turkevich/Miner	BMK	06 83/05 83	Anti-Tumor Drug Screening Method
83	Auburn U.	Darling	BMK	none/none	Anti-Epileptic Agent
83	Pennsylvania State U.	Hymer/Grindeland	BMK	10 82/none	Biologically Active Bovine Hormone
83	Syracuse U.	Fondy	BMK	04 83/05 83	Membrane-Directed Anti-Tumor Alkylating Agents
83	Cornell Research Foundation	Rubin/Miyata/Stenzel/Dunn	BMK	none/	Collagen Medical Agents, U.S. Patent Nos. 4,215,200; 4,294,241; 4,164,559; Patent Application Serial No. 277,267
83	Rutgers U.	Ciftci	BMK	none/	Enzyme Immobilized Soft Contact Lenses
83	Houston, U. of	Cates	BMK	none/	Organophosphorus Anticonvulsant Agents

ases in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
3	Pennsylvania State U.	Gordon/Harrison/Butler	DMC	04 83/	Polymer Crystal Catalyst Support Systems
3	West Virginia U.	Gencsoy/Zurbuch	DMC	06 82/	Limestone Dispensing System
3	Marquette U.	Regen	DMC	04 83/	Triphase Catalytic Saponification
3	Marquette U.	Regen	DMC	04 83/	Triphase Catalytic Isomerization of Olefins

Cases in Order of Receipt

d	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
32	Mayo Foundation	Didisheim et al	HAE	06 82/	Improved Bleeding Time Measurement Method
33	Ohio U.	Collier	HAE	03 83/	Melt Transformation Coextrusion
33	Western Michigan U.	Groper/Hemmye	HAE	none/	Preload Measuring Device

ases in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
2	Vermont, U. of	Duthie/Hosmer	HGH	10 82/	Lipolized Milk

Cases in Order of Receipt

d	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
82	West Virginia U.	Mikhael/Nessim	JF	none/none	Composite Operational Amplifiers
82	West Virginia U.	Mikhael/Tu	JF	none/none	Multiphase Oscillators
82	Independent Inventor	Moroz	JF	none/none	Illuminated Window Display System
82	North Carolina, U. of, Ch H	Fuchs/Bishop/Chi/Poulton	JF	none/none	3D Position Sensor
83	Illinois Inst/Technology	Weinstock	JF	none/none	Pipeline Detection by Magnetometry
83	Tenn., U. of Res. Corp.	Boyd/Lipscomb	JF	09 82/09 82	Environmental Noise Monitor
83	Rochester, U. of	Quesnel/Tsou	JF	02 83/02 83	Extensometer Extender

Cases in Order of Receipt

]	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
32	Louisiana State U.	Edling/Morgan	JGS	none/none	Crawfish Harvester
32	Independent Inventor	Zauner	JGS	none/none	Head Gear US Pat No. 4,293,958
32	Arizona State U.	Yao/So	JGS	none/none	Modular Design for U-Tube Steam Generators
32	Tennessee, U. of Res Corp	Wright	JGS	none/none	Improved Carbon Reinforced Aluminum Composites
32	Michigan State U.	Sprott/Rotz	JGS	03 82/03 82	Hay Preservative Injection System
32	Independent Inventor	Bailey	JGS	none/none	Improved Heat Exchanger US Patent 4,316,434
32	Pennsylvania State U.	Rosenberg/Landis/Snyder	JGS	04 82/04 82	Artificial Heart System
32	Pennsylvania State U.	Wisman/Pierce/Donachy	JGS	12 82/12 82	Right Ventricular Assist Device
32	Pennsylvania State U.	Weyers/Cady/Blankenhorn/Kline	JGS	none/none	Polymer Concrete Impregnation Method
32	Michigan State U.	Adams	JGS	08/82/08 82	Water Vapor Measurement Device
32	Pennsylvania State U.	Reethof/McDaniel	JGS	none/none	Mode-Matched Siren-Duct Systems
32	Tenn., U. of, Research Corp	van de Werken	JGS	none/08 82	Bucket Auger
32	Tenn., U. of, Research Corp	van de Werken	JGS	none/08 82	Rootcone

ıses in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
!	Arizona State U.	Rice	JGS	none/none	Improved Gas Turbine Engine
!	McGill U.	Raghavan/Tessier/Langlois	JGS	none/none	Grain Dryer
!	Pennsylvania State U.	Reethof	JGS	none/none	Turbo-Siren System
!	Arizona State U.	Guilbeau/Fisk	JGS	none/none	Vascular Prosthesis Perforation Method
!	Louisiana State U.	Edling/Hodgeson/Cange	JGS	none/none	Crawfish Harvester
!	Independent Inventor	Reynolds	JGS	none/none	Bone Compression Plate - U.S. Patent 3,528,085
!	Independent Inventor	Reynolds	JGS	none/none	Stethoscope - U.S. Patent 3,837,681
!	Maryland, U. of	Taylor	JGS	04 83/04 83	Microwave Coagulating Scalpel
3	Arizona State U.	Singhal	JGS	none/none	Seismically Resistant Pipeline Joint
3	Independent Inventor	O'Hare	JGS	none/none	Hydrogen Pyrolysis Fuel Injection U.S. Patent No. 4,362,137
3	Pennsylvania State U.	Hughes/Kissinger	JGS	none/	Cuffed Vascular Prostheses
3	Arizona State U.	Yao/So	JGS	none/	Modular Tube Heat Exchanger
3	Rutgers U.	Rubin	JGS	none/	Outgassing Manifold

Cases in Order of Receipt

ed	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
82	North Carolina State U.	Chang/Andrews	MJS	none/none	Improved Pulping Process
82	Auburn U.	Mathias/Canterberry	MJS	11 82/none	New Fuel Substitute
82	North Carolina/Chap Hill	Meyer/Gersten/Samuels	MJS	10 82/10 82	Electrochemical Interconversion Catalysts
82	Virginia Polytech Inst	Squires/Guruswamy/Alexander	MJS	4 82/04 82	Electrochemical Coal Treatment Method
82	West Virginia U.	Stiller/Crowder	MJS	none/none	Low Temperature Coal Dissolution Process
82	Manitoba, U. of	Hill/Kim	MJS	none/none	Cyclodextrins as Starch Swelling Agents
82	South Dakota State U.	Gibbons	MJS	03 83/03 83	Continuous Diffusion Fermentor
82	South Dakota State U.	Gibbons	MJS	03 83/	Continuous Solid-Phase Fermentation Auger
82	Idaho Research Foundation	Taylor/Omofoma	MJS	none/none	Chromite Ore Beneficiation
83	Louisville, U. of	Klein/Meyer	MJS	none/	Chloramine Removal System
83	Pennsylvania State U.	Walker/Mahajan	MJS		Surface Modified Carbons
83	Pennsylvania State U.	Ryba/Deutsch	MJS	none/	Copper Granulation Process
83	New Mexico State U.	Rakow	MJS	none/	Axial Migration Process

ases in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
3	Pasteur Institute	Avrameas/Guesdon	MS	none/	Biological Assay System US Serial No. 265,427
3	Pennsylvania State U.	Mizel	MS	03 83/05 83	Purification of Interleukin 1

Cases in Order of Receipt

ed	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
82	Va. Commonwealth U.	Hudgins	RMW	none/none	Catheter Positioned Arterial Implant
82	Delaware, U. of	Ih	RMW	none/none	Optical Fiber Signal Transmission System US Pat 4,210,803
82	Houston, U. of	Vestal	RMW	06 82/06 82	Detector for Liquid Chromotography
82	James Madison U.	Rudmin	RMW	none/none	Digital IC Comparator
82	Wesleyan U.	Bolton	RMW	none/none	Improved NMR Tomography
82	Pennsylvania State U.	Jester/McMaster/Baratta	RMW	none/06 82	Reactor Radioactive Emmission Monitor
82	Michigan State U.	Jenkins	RMW	none/	Cable Branch Exchange Network
82	North Carolina State U.	McClure	RMW	none/	Fourier Transform Spectrometric Analysis Method
82	Kansas, U of	Dwyer et al	RMW	none/	Laser Scanned Digital X-ray Recording System
82	McGill U.	Podgorsak/Fallone	RMW	12 82/12 82	Improved Electret Production Method
82	Kansas U. Endow. Assoc.	Fritz et al	RMW	none/	Digital Mammography System
83	Vermont, U. of	Absher	RMW	none/	Speech Analysis Method

Cases in Order of Receipt

	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
83	Pennsylvania State U.	Fang/Xi/Chen/Bhalla/Cross	RMW	none/04 83	Improved Pyroelectric Crystals
83	Virginia Polytech Inst	Dorn/Glass	RMW	06 82/	Improved NMR Detector System
83	Alabama, U. of/Birmingham	Wixson	RMW	none/	Whole Body Dynamic Ultrasound Imager

Cases in Order of Receipt

:d	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
:82	Tenn., U. of Res. Corp.	Becker/Naider/Steinfeld/Shenbagamurthi	RWP	none/none	Synthetic Polyoxin-Type Compounds as Antifungal Agents
82	Tenn., U. of Res. Corp.	Becker/Naider/Steinfeld	RWP	none/none	Polyoxins as Anticandidal Agents
82	Alabama, U. of/Birmingham	Urthaler	RWP	03 82/none	Enhancement of Amiodarone Solubility
82	Temple U.	DiSorbo/Litwack	RWP	05 82/05 82	Vitamin B6 as Antitumor Agent
82	Virginia Commonwealth U.	Cockrell/Rodriguez	RWP	05 83/05 83	Filter Paper ELISA For GA3HS
82	Arizona State U.	Pettit/Herald	RWP	none/	Anticancer Agents from Sea Urchin
82	Arizona State U.	Pettit/Cragg/Herald Schmidt/Lohavanijaya	RWP	none/	Combretastatin
82	Arizona State U.	Pettit	RWP	none/	Lytechinastatin
82	Arizona State U.	Pettit	RWP	none/	Palystatins
83	Pasteur Institute	Berneman/David/Horaud	RWP	none/	Microparticle Culture Growth Medium US Serial No. 213,314
83	New York Coll/Podiatric Med	Hodge/Fischman	RWP	none/	Dental Plaque Inhibition Agents
83	North Carolina/Chapel Hill	Atsuka/Nagata/Turner	RWP	03 83/	Improved Dental Restorative Composites
83	Trinity U.	Cobb/Egan/Olive	RWP	03 82/	Phenolic Waste Treatment Using Modified Microorganisms

Cases in Order of Receipt

d	Institution	Inventors	Eval Assc	Proj. No. Pub. Date	Title of Disclosure
82	Louisiana State U.	Day/Workman	TMN	09 83/09 83	Clinical Inulin Assay Method
82	Marquette U.	Regen	TMN	01 83/01 83	Improved Polymer Dehydrohalogenation Catalysts
82	Marquette U.	Regen	TMN	01 83/01 83	Improved Polymer Alkylation Catalysts
82	Dayton, U. of	Hwang/Wiff/Helminiak	TMN	03 83/03 83	Polymeric Molecular Composites
83	Rutgers U.	Newman/Scheinbeim	TMN	none/	Plasticized Film Process

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President's Message

(Continued from page 1)

well worthwhile if they result in just one discovery—another "laser" or recombinant DNA technique for example—that helps invigorate our industrial base.

Research Corporation's Grants Program has successfully targeted areas crucial to the advancement of science: assistance for younger investigators who need support to initiate independent research projects, and help for seasoned faculty scientists who seek aid to do particularly speculative work, or to shift to entirely new fields. The foundation's other area of emphasis is the support of investigators and science departments at outstanding liberal arts colleges, institutions that continue to train a large percentage of the students who go on to graduate work in the sciences. Faculty research projects in this setting give undergraduates a vital opportunity to do original work in science. The foundation will continue its grants-making activities in all of these areas, and will supplement them as its means permit.

In recent years a number of industrial firms, foundations and highly motivated individuals have chosen to help strengthen academic science as a philanthropic endeavor through the mechanism of Research Corporation's Grants Program. In closing I would like to extend the thanks of the foundation and the academic community to all of those who have contributed in this manner. It is hoped that others in industry and the nonprofit sector will make similar investments in the nation's scientific and technological future. *—John P. Schaefer*

College Science Grants

(Continued from page 3)

C. A. LEWIS and MICHAEL R. McCONNELL, Point Loma College: A. Ultrastructural analysis of sperm-egg interactions and hybridization in California abalone. B. Mechanisms of infection of gram-negative bacteria by bacteriophages. C. Morphological and biochemical studies on the digestive tracts of two morphs of the tadpole, *Scaphiopus multiplicatus*—$6,000

ARIEL G. LOEWY, Haverford College: Modulation of covalent interactions between cellular proteins (two-year program)—$13,650

COLIN F. MacKAY, Haverford College: The photochemistry of carbon suboxide—$5,855

DON H. MADISON, Drake University: Accurate inelastic electron-atom cross sections (three-year program)—$15,500

MICHAEL R. McCONNELL, Point Loma College: The mechanism of infection of *Salmonella anatum* by bacteriophage ϵ^{15} (two-year program)—$12,300

TIMOTHY J. McNEESE, Loyola College, Md.: Synthesis, structure, and reactivity of hydroxo group VI metal carbonyl derivatives (two-year program)—$14,835

MICHAEL E. MICKELSON, Denison University: Laboratory measurement of the infrared and visible spectrum of hydrogen deuteride—$9,500

JAY M. PASACHOFF, Williams College: Optical observations of solar prominences (two-year program)—$10,000

FRANK W. PERCIVAL, Westmont College: Identification and concentrations of naturally-occurring bound auxins in soybean seeds and seedlings—$5,500

HAROLD W. PINNICK, Bucknell University: Synthesis of anatoxin-a (three-year program)—$15,000

LOUIS V. QUINTAS, Pace University: Random graphs and phase transitions in aqueous solutions—$5,400

C. GARY REINESS, Pomona College: Development of neuromuscular junction in normal mice and mice with motor endplate disease (two-year program)—$20,000

RANDALL E. ROBINSON, Luther College: Synthetic and mechanistic studies of the copper(II)/hydrazine system—$2,500

MARTIN J. SERRA, Allegheny College: The separation of euchromatin from heterochromatin by affinity chromatography (two-year program)—$13,000

HOWARD W. SHIELDS, Wake Forest University: An EPR study of antibiotic binding with DNA (two-year program)—$10,800

DIANA B. STEIN, Mount Holyoke College: Chloroplast DNA sequence studies in the Osmundaceae—$12,000

WILLIAM H. TAMBLYN, Franklin and Marshall College: The chemistry and synthetic applications of the octahydrotriborate ion and its organometallic complexes (two-year program)—$19,220

STEPHEN K. TAYLOR, Olivet Nazarene College: Friedel-Crafts reactions of epoxides—$4,400

LARRY L. TIESZEN, Augustana College: Carbon isotope discrimination in C_3 and C_4 plants and the use of stable isotopic labels to study Great Plains paleoecology (three-year program)—$19,000

JERRY L. WALSH, Lafayette College: Substitution and isomerization in polypyridyl ruthenium(II) complexes (two-year program)—$10,850

STEVEN J. ZOTTOLI, Williams College: Regeneration of a vertebrate central neuron (three-year program)—$15,600

Grants and Grantees

(Continued from page 2)

trolled molecular environment." Not only has photooxidation of various organic substances on zeolites been demonstrated, but entirely new techniques have been developed for studying catalytic processes.

QUARTERLY BULLETIN
SUMMER 1982

Research Corporation, 405 Lexington Ave., New York, N.Y. 10174-0370

A foundation for the advancement of science and technology, Research Corporation serves educational and scientific institutions through grants-in-aid for basic research in the natural sciences, and by furthering the application of scientific discoveries.

Grants Program

Cottrell Research Grants support basic investigations in the physical sciences at graduate universities and public undergraduate institutions.

Cottrell College Science Grants support academic research projects in the natural sciences at private undergraduate institutions.

In addition to these regular programs, Research Corporation occasionally supports other important scientific endeavors within its general fields of interest.

Invention Administration Program

Services contributed to educational and scientific institutions include evaluating faculty and staff inventions, accepting assignment of those which appear to be useful and marketable, applying for patents through qualified counsel, licensing issued patents to industry, and defending against infringement when necessary.

Royalties received from patents assigned to the foundation are apportioned among the inventor, the institution and Research Corporation, with the institution's patent policy determining the inventor's share. The foundation's share is used to help support its Grants and Invention Administration Programs.

The *Quarterly Bulletin* is published three times yearly, with the Annual Report constituting a fourth issue. Articles may be quoted in whole or in part with credit to Research Corporation. Invention administration projects are reported in *Research and Invention*, an occasional newsletter. Address correspondence to W. Stevenson Bacon, Director of Communications.

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Authority in Business Development Joins IAP

Donald M. Coyne, a chemist, chemical engineer and expert in the development of new business has joined Research Corporation's Invention Administration Program. In addition to assisting with the evaluation and licensing of new technology, Dr. Coyne will help the foundation expand its technology transfer efforts.

Supplementing its patent licensing activities, Research Corporation will use venture capital and entrepreneurial techniques to develop inventions under plans now being formulated.

A native of Olathe, Kans., Dr. Coyne graduated from the Universities of Kansas and Pittsburgh, and holds an MBA as well as degrees in chemistry. After a number of years in the petrochemical industry, he joined Gulf Oil Corporation in 1963. An executive with Gulf Science & Technology Co. from 1975 until 1982, Coyne held posts as Manager of Marketing Research and Manager, Technology Transfer, and served as Washington representative.

Dr. Coyne is a member of the Commercial Development Association and immediate past president, and member of the American Chemical and Licensing Executives Societies.

Foundation Counsel to Guide Invention Patenting

Jerome (Jerry) M. Teplitz has been named in-house patent counsel for Research Corporation's Invention Administration Program. He will oversee the filing of patent applications and their prosecution by outside firms retained by the foundation. Teplitz joins attorney Robert J. Sanders, Jr., who has been made General Counsel.

Mr. Teplitz, trained both as a chemical engineer and an attorney, served as an examiner at the U.S. Patent and Trademark Office before undertaking a career in industry and later in private practice. Prior to joining Research Corporation, he was patent counsel for University Patents, Inc. of Norwalk, Conn. and a member of the firm of Holman and Stern of Washington, D.C.

He is registered to practice before the U.S. Patent and Trademark Office, and is admitted to the Illinois, Maryland and Federal Bars, and the Court of Customs and Patent Appeals.

Patent Associate Retires; Expert on Pharmaceuticals

Abraham Bavley, a research scientist and prolific inventor with over 60 patents in such fields as color photography, pharmaceuticals and chemical processes, has retired as a professional staff member of Research Corporation's Invention Administration Program.

Dr. Bavley, a Harvard-educated organic chemist well known in both business and academic circles, came to the foundation in 1974 following a career as an industrial scientist and executive for such firms as GAF, Philip Morris and Marion Laboratories, and as a faculty member in pharmaceutics for the Universities of Tennessee and Missouri.

During his years at Research Corporation, Dr. Bavley evaluated most of the drug inventions submitted to the foundation, including a number that later proved successful. Although retired, he will remain a consultant to the foundation on pharmaceuticals reviewed for patenting and licensing.

Foundation Annual Report Due in March

The Research Corporation annual report for 1982 is planned for March 1983 publication and will be available by early spring to all those requesting it.

In contrast to the reports of recent years, published in January, the new offering will be illustrated and will feature in-depth coverage of especially interesting grants and invention administration projects.

Those not now on the list to receive the foundation's report can request it by writing to Director of Communications, Research Corporation, 405 Lexington Ave., New York, N.Y. 10174.

QUARTERLY BULLETIN
FALL 1982

Research Corporation, 405 Lexington Ave., New York, N.Y. 10174-0370

A foundation for the advancement of science and technology, Research Corporation serves educational and scientific institutions through grants-in-aid for basic research in the natural sciences, and by furthering the application of scientific discoveries.

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TABLE XII

LIST OF INSTITUTIONS

At the end of the 1982 fiscal year, the following 287 colleges, universities and other nonprofit institutions had ageeements with Research Corporation through which they may receive at no charge invention administration services provided by the foundation. These services are also available without charge on a case by case basis to other institutions which have not signed agreements.

* Denotes A Canadian Institution

University of Alabama
University of Alabama in Birmingham
University of Alabama in Huntsville
University of Alaska
Albany Medical College of Union University
Albert Einstein College of Medicine
Alberta Sulphur Research Ltd.*
University of Alberta*
Alfred University
Alton Ochsner Medical Foundation
American Heart Association
American Red Cross
American Society of Heating, Refrigerating & Air Conditioning Engineers
American University (Washington, D.C.)
American University of Beirut
Amherst College
Arizona State University
University of Arizona
University of Arkansas
Associated Universities, Inc.
Association of Universities for Research in Astronomy, Inc.
Atlantic Industrial Research Institute*
Auburn University
Augustana Research Foundation
Baylor University
Beloit College
Boston College
Boston University
Boston University Medical Center
Bowdoin College
Brandeis University
Brigham Young University
University of British Columbia*
Bucknell University
Butler University
California State University, Long Branch
California State University, Los Angeles Foundation
California State University, San Jose
Calvin College
Carnegie-Mellon University
Carroll College (Wisconsin)
Carver Research Foundation at Tuskegee Institute
Case Western Reserve University
University of Central Florida
University of Chicago
University of Chile
University of Cincinnati
City College Fund (New York)
Clark University
Clarkson College of Technology
Clemson University
Cleveland Clinic Foundation
Cleveland State University
Colorado School of Mines
Colorado State University
University of Colorado
University of Connecticut
Cornell University
Council on Library Resources, Inc.
Covenant College
Dalhousie College and University *
Dartmouth College
University of Dayton
University of Delaware
University of Denver
University of Detroit
Drexel University
Duke University
Duquesne University
Eastern New Mexico University
Emory University
Fairleigh Dickinson University
Fight for Sight, Inc.
Florida Institute of Technology
Florida State University
University of Florida
Fordham University
Franklin Institute Research Laboratories
Franklin and Marshall College
Fred Hutchinson Cancer Research Center
Friends University
George Washington University

Georgetown University
Georgia State University
University of Georgia
Grinnell College
University of Guelph *
Donald Guthrie Foundation for Medical Research
Hahnemann Medical College and Hospital of Philadelphia
Hartford Graduate Center
University of Hartford
Harvey Mudd College
Health Research, Inc.
Henry Ford Hospital
Hofstra University
University of Houston
Human Resources Research Corporation
Idaho Research Foundation, Inc.
Illinois Benedictine College
Illinois Institute of Technology
Indiana University
International Centre of Insect Physiology and Ecology (Kenya)
Jackson Laboratory
Japan Engineering Development Company
Jefferson Medical College of Philadelphia
Johns Hopkins University
Applied Physics Laboratory of Johns Hopkins University
University of Jordan
Kansas State University
University of Kansas
Kent State University
Lafayette College
Lake Forest College
Laval Universite*
Lawrence University
Lehigh University
Linfield College
Linfield Research Institute
Louisiana State University
Louisiana Tech University
University of Louisville
Lovelace Medical Center
University of Lowell
Loyola University (Chicago)
Loyola University (New Orleans)
University of Maine
University of Manitoba*
Mankind Research Foundation
Marquette University
University of Maryland
University of Massachusetts
Mayo Foundation
McGill University*
Medical Research Institute of San Francisco
McMaster University*
Medical Research Foundation of Oregon
Medical Research Institute of San Francisco
Medical University of South Carolina
Memorial Hospital for Cancer and Allied Diseases
Memorial University of Newfoundland*
Memphis State University
Metropolitan Museum of Art
University of Miami
Michael Reese Hospital and Medical Center
Michigan Macromolecular Institute
Michigan State University
University of Michigan
Mills College
University of Minnesota
Mississippi State University
University of Mississippi
Endowment & Research Foundation at Montana State University
University of Montana
Montefiore Hospital
Mote Marine Laboratory
National Biomedical Research Foundation
National Council to Combat Blindness Inc.
National Multiple Sclerosis Society
National Research Development Corporation (England)
National Research Development Corporation of India
Nebraska Game, Forestation and Parks Commission
University of Nebraska
Nebraska Wesleyan University
University of Nevada
University of New Brunswick*
New England Institute
University of New Hampshire
New Jersey University of Medicine and Dentistry
New Jersey Institute of Technology
New Mexico Highlands University
New Mexico State University
New Mexico Tech Research Foundation
University of New Mexico
New York Blood Center
New York Botanical Garden
Health Department of the New York Health Services Administration
New York Medical College
New York State Department of Health
State University of New York
Research Foundation of State University of New York
Niagara University
North Carolina State University at Raleigh

University of North Carolina at Chapel Hill
University of North Carolina at Greensboro
North Dakota State University
University of North Dakota
University of North Dakota Alumni Association
Northeastern University
Northwestern University
Norwich University
University of Notre Dame
Nova Scotia Research Foundation, Inc.*
Oakland University
Oberlin College
Occidental College
Ohio University
Oklahoma Medical Research Foundation
Oklahoma State University
University of Oklahoma
Old Dominion University Research Foundation
Oregon College of Education
Oregon Institute of Technology
Oregon State University
University of Oregon
University of Oregon Health Sciences Center
Pacific Northwest Research Foundation
Pennsylvania State University
University of Pennsylvania
University of Petroleum and Minerals (Saudi Arabia)
University of Pittsburgh
Polytechnic Institute of New York
Portland State University
Princeton University
University of Puget Sound
Rand Corporation
Reed College
Rehabilitation Institute, Inc.
Rensselaer Polytechnic Institute
Rice University
University of Richmond
Rider College
University of Rochester
Rockefeller University
Roosevelt University
Rose-Hulman Institute of Technology
Rutgers University, The State University of New Jersey
St. Edward's University
St. John's University (New York)
St. Louis University
St. Luke's - Roosevelt Hospital, New York
School of Mines Research Association of South Dakota
Seattle University
Sloan-Kettering Institute for Cancer Research
University of South Carolina
South Dakota State University
University of South Dakota
University of Southern California
Southern Illinois University Foundation
Southern Methodist University
University of Southern Mississippi
University of Southwestern Louisiana
Spring Hill College
Stanford University
Stevens Institution of Technology
Sulphur Institute
Syracuse Research Corporation
Syracuse University
Teaching-Learning Research Center
Temple University
University of Tennessee Research Corp.
Texas A&M Research Foundation
Texas Tech University
University of Texas
University of Toledo
Trinity University
Tufts University
Tulane University
University of Tulsa
Union College and University (New York)
Unisearch Limited (Australia)
University Corporation for Atmospheric Research
Utah State University
University of Utah
Vanderbilt University
University of Vermont
University of Victoria*
Virginia Commonwealth University
Virginia Polytechnical Institute and State University
University of Virginia
VMI Research Laboratories
Washington and Lee University
Washington State University
University of Washington
University of Waterloo*
Wayne State University
Wesleyan University
West Virginia University
Western Illinois University
Western Michigan University
Western New England College
Winona State University
Woods Hole Oceanographic Institution
Worcester Foundation for Experimental Biology
Worcester Polytechnic Institute
University of Wyoming
Xavier University (Ohio)
Yale University
Youngstown State University

INVENTION ADMINISTRATION AGREEMENT
between
RESEARCH CORPORATION
and
INSTITUTION

THIS AGREEMENT, made effective this day of , 198 , between INSTITUTION, a corporation incorporated and existing under the laws of the State of _____, having its principal office at _____, hereinafter called "INSTITUTION", and RESEARCH CORPORATION, a not-for profit corporation incorporated and existing under the laws of the State of New York, having offices at 405 Lexington Avenue, New York, N. Y. 10174, hereinafter called "RESEARCH";

WITNESSETH THAT:

DEFINITIONS

As used herein the following defined terms shall have the meanings ascribed to them as follows:

"Invention" shall mean invention or discovery or novel plant variety. An Invention shall be "made" when it is conceived.

"Inventor" shall mean one who makes an Invention or one who is a breeder of a novel plant variety susceptible of protection by means of a Plant Variety Protection Certificate or the like.

"Patent" shall mean a patent or Certificate of Invention or Utility Model or Design Registration or Plant Variety Protection Certificate or other form of protection for an Invention issued by a government or governmental agency.

"Patented" shall mean covered by a Patent.

"Patent Policy" shall mean the applicable policies, programs, regulations and expressed or implied contracts governing and/or determining the rights of INSTITUTION in and to the Inventions, Patent Applications and Patents of members of its faculty, staff, fellows, associates, students, employees and others who may be subject thereto.

"Patent Rights" shall mean all right, title and interest in and to an Invention, any Patent Application filed or to be filed thereon and any Patent issued or issuing thereon, the right to file for any such Patent and to have any such Patent issued in the name of the owner or assignee and the right to claim any priority right to which the Inventor or anyone claiming under him may be entitled.

"Deductible Expenses" shall mean the sum of the out-of-pocket expenses incurred by RESEARCH for litigation in courts of record to obtain, or to assert or defend the validity or scope of, any Patent administered under this agreement; provided INSTITUTION shall have given its written consent to treat such expenses as Deductible Expenses.

"Gross Income" shall mean all moneys and the money equivalent of any other consideration received by RESEARCH by reason of its ownership and administration of any Invention, Patent or Patent Rights under this agreement, but shall not include any amounts paid by a licensee or prospective licensee of RESEARCH under any such Patent or Patent Rights expressly for the expenses of filing, prosecuting or maintaining any Patent Application or Patent on such Invention.

Notice" shall mean written notice sent by prepaid, first-class, registered or certified mail, return receipt requested.

RECITALS

A. WHEREAS, INSTITUTION believes that Inventions may be made by members of its faculty, staff, fellows, associates, students, employees or others covered by INSTITUTION's Patent Policy; and

B. WHEREAS, RESEARCH has had broad experience in the evaluation of Inventions for commercial and scientific utility, as a basis for determining the feasibility of seeking Patents thereon, and in introducing Inventions into use in the useful arts and manufactures and for scientific purposes; and

C. WHEREAS, INSTITUTION desires that Inventions referred to in Paragraph A be evaluated, Patented and introduced into use in an effective manner and with due regard for the public interest; and

D. WHEREAS, INSTITUTION further desires that any net income from such Inventions be used to provide means for the advancement and extension of technical and scientific investigation, research, experimentation and education; and

E. WHEREAS, RESEARCH is a not-for-profit corporation organized for the purpose of providing means for the advancement and extension of technical and scientific investigation, research and experimentation, no part of the net earnings of which inures to the benefit of any private shareholder or individual; and

WHEREAS, RESEARCH is prepared to evaluate such Inventions, to obtain Patents on those which it selects, to introduce such selected Inventions into use through its ownership of any Patent Applications filed and Patents issued on them, primarily by issuing licenses to third parties, and to devote all net income resulting from the administration of such Inventions to the purposes of its charter as a not-for-profit corporation.

NOW, THEREFORE, in consideration of the mutual covenants and undertakings herein contained, the parties DO AGREE AS FOLLOWS:

I. INSTITUTION's Duties: INSTITUTION agrees to:

(1) Arrange, in its discretion, for the submission to RESEARCH of those it may select of the Inventions of members of its faculty, staff, fellows, associates, students, employees, and others covered by INSTITUTION's Patent Policy, which INSTITUTION owns or shall be entitled to own or license to others, or which INSTITUTION may be entitled to own or license to others upon petition to a governmental or private granting or contracting agency or organization, for evaluation by RESEARCH and administration under this agreement if accepted by RESEARCH.

(2) Assign or arrange for assignment to RESEARCH of its right, title and interest in and to such Inventions submitted to RESEARCH pursuant to Article I, paragraph (1) above, as RESEARCH shall elect to accept under this agreement, together with the Patent Rights thereon.

its faculty, staff, fellows, associates, students, employees, or others covered by INSTITUTION's Patent Policy, whose Inventions are not embraced within Article I, paragraph (1) above, that they submit to RESEARCH such Inventions for evaluation with the understanding that they will assign to RESEARCH their right, title and interest in and to those of the aforesaid Inventions submitted to RESEARCH which RESEARCH shall elect to accept under this agreement, together with the Patent Rights thereon.

(4) Afford to RESEARCH to a reasonable extent, upon request, the advice and assistance of such members of INSTITUTION's faculty, staff, fellows, associates, students and employees or others covered by INSTITUTION's Patent Policy in seeking Patents upon and otherwise administering under this agreement any Inventions accepted by RESEARCH hereunder, without charge therefor.

(5) Advise RESEARCH at the time of submission of any Invention to RESEARCH of any commitments INSTITUTION or an Inventor of such Invention has made to any third party for licenses or other rights under such Invention and the Patent Rights thereon.

(6) Designate a member of INSTITUTION's faculty or staff as liaison with RESEARCH with the responsibility of assuring that INSTITUTION's role in the identification and administration of Inve ntions under this agreement shall be carried out effectively; and, notify RESEARCH in writing of each person so designated.

(7) Notify RESEARCH in writing in the event that it shall undertake to establish an office or other facility or operation (other than a member of INSTITUTION's faculty or staff designated solely as liaison with RESEARCH pursuant to Article I, paragraph (6) above) for the administration, patenting or licensing of Inventions that might otherwise be submitted to RESEARCH for evaluation and possible administration under this agreement.

(8) Notify RESEARCH in writing of any other agreement or other arrangement it has entered into or shall enter into with any other person or organization for the administration, management or licensing of Inventions that might otherwise be submitted to RESEARCH for evaluation and possible administration by RESEARCH under this agreement and advise whether or not such agreement or arrangement provides that such third party will have the right of first refusal as to any such Invention or the Patent Rights thereon.

II. RESEARCH's Duties: RESEARCH agrees at its own sole cost and expense to:

(1) Provide at its discretion such visitations to INSTITUTION as it may deem appropriate by staff or other professionals designated by RESEARCH, for the purpose of conferring with administrators, faculty, staff, fellows, associates, students, employees or others covered by INSTITUTION's Patent Policy with a view toward identifying and assisting INSTITUTION in identifying Inventions which may be

the subject of this agreement and for the purposes of evaluating and licensing such Inventions and otherwise carrying out the purposes of this agreement.

(2) Evaluate all Inventions submitted to it by or on behalf of INSTITUTION for administration under this agreement, and accept assignment of those of such Inventions, under the terms of this agreement, as it may determine in its discretion should be accepted for administration hereunder.

(3) Within a reasonable time after receipt by RESEARCH of any Invention submitted to it for evaluation under this agreement, advise INSTITUTION in writing of its decision to accept or reject such submitted Invention for administration hereunder. In the event RESEARCH's decision is negative with respect to acceptance of any Invention, INSTITUTION shall, upon receipt of such written decision from RESEARCH, be free to apply for Patents, license others, and take such other steps with respect to such Invention as in its discretion it may see fit to do, all without further obligation under this agreement. In the event RESEARCH's decision is positive with respect to acceptance of any Invention, it will so advise the Inventor(s) in writing by a letter, copy of which is to be acknowledged by the Inventor(s) and returned to RESEARCH.

(4) File United States Patent Applications on those of such Inventions as it may choose to accept for administration under this agreement and prosecute the same in good faith with the intention of securing issuance of Patents thereon.

(5) File corresponding foreign Patent Applications thereon, and prosecute the same in good faith with the intention of securing issuance of Patents thereon, all to the extent that it may in its discretion determine.

(6) Maintain such Patents and cause them to be worked, all to the extent that it may in its discretion determine.

(7) Attempt to introduce such Inventions, Patent Applications and Patents so assigned into public use and to secure a reasonable revenue therefrom in such manner as its considered judgment best dictates.

(8) On or about March 15 in each year make the following (a) income distribution computations and (b) payments of income shares, if any, due INSTITUTION, for each INSTITUTION Invention individually:

(i) Fifteen (15%) percent of the Gross Income shall be computed and paid to INSTITUTION, its successors and assigns.

(ii) Subtract from eighty-five (85%) percent of the Gross Income the Deductible Expenses incurred during the preceding calendar year; from the difference thus obtained subtract the Debit (defined below), if any, which was carried forward; if this subtraction produces a negative difference (a Debit), it shall be carried forward to be used in the following year's income

distribution computation; if it produces a positive difference, fifty (50%) percent of such difference shall be paid to INSTITUTION, its successors and assigns.

At the option of INSTITUTION, expressed in writing to RESEARCH, any amount attributable to any Invention (or any portion thereof) that is payable to INSTITUTION under this Article II, paragraph (8) shall be paid directly to the Inventor (or to the heirs, assigns or legatees of such Inventor), and, in the event of co-inventorship of any such Invention such amount shall be divided between or among the co-inventors in such manner as INSTITUTION may determine and advise RESEARCH in writing.

(9) Furnish to INSTITUTION simultaneously with the payments required under Article II, paragraph (8) above a report showing (a) activities during the preceding calendar year in connection with each Invention accepted hereunder, and (b) the computation of payments made under Article II, paragraph (8) hereof.

(10) Upon request by INSTITUTION, furnish to each Inventor of an Invention accepted for administration under this agreement a report showing (a) activities during the preceding calendar year in connection with such Invention, and (b) the computation of payments made as to such Invention under Article II, paragraph (8) hereof.

(11) Maintain at its offices, in usual form, books of record, ledgers and accounts relating to its activities under this agreement, all of which shall be open to examination by INSTITUTION or its nominees during usual business hours.

(12) Issue to any third party any license or other right required by any contract between INSTITUTION and such third party, entered into between INSTITUTION and such third party prior to submission to RESEARCH, as to any Invention acquired by it under this agreement, and as to Patent Applications filed and Patents issued thereon.

(13) Continue as licensor, grantor or contracting party as to licenses, grants, working rights, agreements or other contracts to which any Invention, Patent Application or Patent acquired by it under this agreement is subject at the time of any further assignment thereof by RESEARCH, and to continue to report upon and make computations and payments of moneys under Article II, paragraph (8) hereof and to make reports under Article II, paragraphs (9) and (10) hereof, with respect thereto.

(14) Treat as proprietary and with the same degree of confidentiality that it treats other information of like kind all Inventions and related information received by it hereunder which has not been published or which is not the subject of an issued Patent or a pending Patent Application and not disclose the same to any third party except to the extent necessary or proper in order to achieve the purposes and intent of this agreement, it being understood and agreed that RESEARCH shall treat such Inventions and related information with the requisite degree of confidentiality necessary to preclude jeopardizing the patentability of such Inventions and that RESEARCH will in each case require any such third party recipient thereof to agree to hold the same with the same degree of confidentiality as that required of RESEARCH.

III. INSTITUTION's Reserved Rights: INSTITUTION reserves the right to:

(1) Terminate this agreement upon three (3) months'Notice to RESEARCH at any time; it being understood, however, that any Invention that shall have been submitted to RESEARCH under this agreement prior to the effective date of termination thereof under this Article III shall be subject to this agreement if it is otherwise embraced within Article I hereof.

(2) At any time after three (3) months from the date of receipt by RESEARCH of any Invention submitted to it for evaluation under this agreement, give Notice to RESEARCH that RESEARCH must accept or reject such Invention within thirty (30) days of receipt of such Notice, and if RESEARCH fails to accept or reject the Invention within such thirty (30) day period INSTITUTION shall thereafter be free to apply for Patents, license others, and take such other steps with respect to such Invention as it may see fit to do, all without further obligation to RESEARCH under this agreement. The provisions of this paragraph (2) shall not apply to any Invention that RESEARCH shall have submitted to a third party for screening, with approval of INSTITUTION, in the course of evaluation of such Invention, unless and until such third party shall have advised RESEARCH that it is not interested in or is not continuing its evaluation of such submitted Invention.

IV. RESEARCH's Reserved Rights: RESEARCH reserves the right to:

(1) Terminate this agreement upon three (3) months' Notice to INSTITUTION at any time; provided, however, that any Invention that shall have been submitted to RESEARCH under this agreement prior to the effective date of termination thereof under this Article IV shall be subject to this agreement if it is otherwise embraced within Article I hereof.

(2) Give Notice to INSTITUTION of its intention to abandon any Patent Application or Patent subject to this agreement and thereafter abandon or take no further action as to such Patent Application or Patent, unless within sixty (60) days after such Notice INSTITUTION shall have requested RESEARCH in writing to assign such Patent Application or Patent to INSTITUTION or its nominee, in which event RESEARCH shall so assign such Patent Application or Patent as requested.

(3) Give Notice to INSTITUTION of its intention not to proceed further with the introduction into public use of any Invention, Patent Application or Patent which has been accepted by RESEARCH under this agreement, and thereafter in its discretion cease such introduction; upon written request by INSTITUTION, RESEARCH shall assign such Invention, Patent Application or Patent to INSTITUTION or its nominee.

(4) In its discretion assign to INSTITUTION or its nominee, upon any termination of this agreement, its right, title and interest in and to any Invention assigned to RESEARCH hereunder, together with any Patent Applications filed and Patents issued thereon and all right to damages for infringements of such Patents taking place after such

termination, but subject to any licenses, grants, working rights, agreements or other contracts with respect thereto theretofore made by RESEARCH.

(5) Receive for the general purposes of its charter out of any moneys received by its assignee or assignees under Article IV, paragraph (4) of this agreement by reason of such assignee's or assignees' ownership and/or management of any Inventions, Patent A pplications or Patents so assigned or thereafter filed or issued thereon, an amount corresponding to any Deductible Expenses not theretofore recovered by RESEARCH through subtraction under Article II, paragraph (8) (ii) hereof as to such Invention and thirty (30%) percent of the amount remaining following deduction and subtraction therefrom by such assignee or assignees of any sums needed to reimburse such assignee or assignees for such expenses as RESEARCH and such assignee or assignees may have previously agreed upon in writing as expendable for litigation in courts of record to obtain, or to assert or defend the validity or scope of, any such P atent.

(6) Retain for use in accordance with the general purposes of its charter the balance of any Gross Income remaining after making the payments specified in Article II, paragraph (8) hereof.

V. ARBITRATION

Any controversy or claim arising out of or relating to this agreement or the breach thereof shall be settled by arbitration, in accordance with the Rules, then obtaining, of

award rendered may be entered in the highest court of the forum, state or federal, having jurisdiction.

VI. GOVERNMENT RIGHTS

This agreement is expressly subject to such terms and conditions as may be imposed on the patenting, licensing, disposition, administration, or royalty distribution of any Invention administered hereunder and the Patent Rights thereon as the result of any rights the United States Government may have or be entitled to have in such Invention or Patent Rights as the result of any contract, grant or funding related to the research or other work that resulted in such Invention.

VII. INVENTIONS RESULTING FROM RESEARCH CORPORATION GRANTS

Nothing contained in this agreement shall be construed to require INSTITUTION or any Inventor to submit or assign to RESEARCH any Invention resulting from research or other work conducted pursuant to a grant from RESEARCH under which RESEARCH shall have waived its right in and to any Invention or Patent Right on such Invention, provided, however, that INSTITUTION or any such Inventor may in its discretion submit or assign any such Invention to RESEARCH for administration under this agreement.

VIII. NOTICE

Any notice to be given under this agreement to INSTITUTION or to RESEARCH shall be deemed properly and sufficiently given if mailed by first-class certified or registered, postpaid mail to:

(Title)
Institution
Address
City, State & zip code; and

RESEARCH, as

Dr. Willard Marcy
Vice President
Research Corporation
405 Lexington Avenue
New York, New York 10174

Each party reserves the right to change such officer and address for notification, by notice so given.

IX. LAW GOVERNING

This agreement shall be governed and construed according to the laws of the State of New York.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be signed and their corporate seals to be hereunto affixed, all by their corporate officers thereunto duly authorized, on the date(s) indicated below to be effective as of the day and year first above written.

Attest:

RESEARCH CORPORATION

_____
Assistant Secretary

By_____
President

Date:_____

Attest:

INSTITUTION

_____
(title;seal)

By_____
(title)

Date:_____