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Liberal Arts and Sciences

School of Chemical Sciences

Kenneth L. Rinehart Papers, 1959-1999

Creator

Kenneth L. Rinehart (1929- 2005) was Chemistry professor at the University of Illinois at Urbana-Champaign (UIUC) from 1954 to 2000. Professor Rinehart was internationally recognized as a pioneer in chemical biology through his investigations of organic compounds with biological activity. His research led to the development of a procedure involving mutasynthesis to prepare new antibiotics. He also led the Illinois chemistry department's marine natural products program.

This series contains patent documentation and filings concerning the work of Professor Reinhart on organic chemistry, particularly organic compounds presenting antibacterial, antiviral and antitumor activity.

Description

Rinehart papers consist of documents concerning several patents over his academic research and inventions. It includes patents (officials forms for applications, claims, appeals, examinations, corrections, amendments, and licensing); Institutional correspondence with other faculty and staff, and with law offices, consultants, research institutes, health institutes and laboratories; Laboratory testing reports and diagrams; Academic articles; Handwritten research notes and acetate sheets; Official forms of U.S, Japanese and European patent licensing procedures. The papers also include administrative documents and Chemistry Symposiums programs, as well as documentation concerning UIUC Policies on intellectual property, invention disclosure procedures at UIUC, and release of rights in inventions from UIUC to other institutions.

Box 1

Patent # 4,762,949: Acyl and Carbamimidoyl Alkanediamines, 1976 - 1988

Patent # 4,762,949

UIF/ 1602

Correspondence about rejection and appeals, 1977, 1981 (3 folders)

Licensing, 1980

Testing Correspondence - Li, Vavra and Hughes

Arcanus Testings, etc

Arcanide Testing- Yorke Samples

G.T. Carter

R.E. Schwartz

M.L. Lieb - B.Sc Thesis

Topics:

Arcadines from the marine sponge
Synthesis of Hexahydropolyandrocarpidine
Polyandrocarpidines
Alkanediamine antibacterials
Continuous production of enzyme Hydrolyzed proteins
University of Illinois Policies on intellectual property

Patent # 4,623,644: Acylation of Tirandamycin Streptolide and Sorbic Acids to Cephalosporin and Penicillin Nuclei, 1983 - 1986
Topics:
Hybridization of streptolydigin, tirandamycin and sorbic acids to cephalosporin and penicillin nuclei
Microbial growth inhibitors

Patent # 4,084,010: Glycosides Having Sweetness, 1978

Patent # 4,065,384: Graft Thin Layer Chromatography, 1970, 1975 - 1980
Topics:
Graft thin layer chromatography - Technique and apparatus
Chromatography

UIF Serial # 027,285: Organic Halogen Content as a Prediction of Antimicrobial Activity in Marine Organisms (Abandoned 6/81), 1974 - 1980
Topics:
Prediction of antimicrobial activity

Japanese Patent # 859,025: Novel Antibiotics and Preparation Teoref, 1977
Topics:
Novel Antibiotics and Preparation Teoref
Method of making antibiotics containing the Aminocyclitol Subunit

Patent # 4,076,725: Derivatives of Streptovaricin Ansamycins -Application # 646, 966 - Continued of Serial # 328,727, 1965, 1968, 1972 - 1981
Topics:
New biologically active compounds derived by acylation and/or oxidative degradation of Streptovaricin Ansamycin material, pharmaceutical compositions and therapeutic methods involving the same
Antitumor antibiotic
Japanese application process for patent licensing in the U.S

Patent # 4,075,339: Biologically Active Compounds, 1972 - 1978
Topics:
Biologically active compounds

Compounds possessing anti-bacterial and anti-viral activity of the Formula II
Biologically active Geldanamycin derivatives of Formula III
Distribution of Inventors' or Discoverers' share of patents

Serial # 712,499: Methyl Esters of Polyene Antibiotics -(Abandoned), 1966, 1972 - 1978

Topics:

Methyl Esters of Polyene Antibiotics
Methylpartricin - Antibiotic with antimicotic activity
Polyene antibiotics and uses
Derivatives of Polyene Macrolide antibiotics
Esters of Partricin Derivatives

Patent # 3,954,737: Atropisomeric Ansa Ring Compounds, 1973 - 1976

Topics:

Biologically Active Compounds
Biologically Active Stereoisomeric forms of Ansa Ring compounds
Quinones and other compounds derived from Streptovaricins as anti-tumor, anti-viral
and anti-bacterial agents
Stanford University Licensing Program

Patent # 3,833,556: Hybrimycin Antibiotics and Derivatives, 1959, 1963, 1966, 1970 - 1975

Topics:

Hybrimycin antibiotics and derivatives
Process for preparing Zygomycins
Zygomycin a1 and zygomycin a2 and their isolation

Patent # 3,699,383: Methods of Making Antibiotics Containing the Aminocyclitol Subunit,
1949, 1959, 1963 - 1987

Topics:

Methods of making Antibiotics containing the Aminocyclitol Subunit
Aminocyclitol Subunit
Antiviral compounds from a Marine Tunicate
Derivatives of streptomycin and method of producing streptomycin derivatives by
mutational biosynthesis
2-Deoxystreptomycin
Antibiotics and methods for obtaining Same
Derivatives of Neomycin, Kanamycin or Paromomycin
Aureomycin and Preparation of same

UIU # 2095: Invention Disclosure- Streptomyces Spectabilis, 1994

Topics:
Streptomyces Spectabilis
Correspondence regarding application process

Didemnin Extractiory - UpJohn, 1987, 1995

Topics:
Didemnin material analysis

Dehydrodidemnin B, 1989 - 1999

Dehydrodidemnin B - 39,263 Epo
Dehydrodidemnin B - PCT Int. Appl. 9104, 985
Dehydrodidemnin B - 41,753. USSN 07/ 884 567
DDB 41,753 - C. USSN 08/ 280 110
DDB 41,753 - C2. USSN 09/182,688
DDB 722,729. AD Little Testing ? Mr. J.K. Swiniarski, Kennett S. Loveday
Topics:
Dehydrodidemnin - Cyclic Depsipeptide from a tunicate of Ascidiacea Class
Compounds with antiviral, antitumoral, and cytotoxic activities
Novel antiviral and cytotoxic agent
Screening activity on tumor reduction testing several compounds

USSN # 079,089: Fasting Bear Isolate and Method - UI 89034 - Nelson, Miers, Rinehart, 1994, 1997

Topics:
Fasting Bear Isolate and Method
Discovery and isolation of a substance called Bear derived Isolate beneficial for use in humans in bone growth, conserving nitrogen, inhibiting protein breakdown and others.

Didemnin Patent Chronology - UI 1709/ UI 92010. Rinehart Didemnin /Nordidemnin; Family of Applications/ Patents, 1980 -1994, 1999

Topics:
Didemnin

US Patent# 5,294,603: Didemnin Derivatives UI 92010, 1993 -1994

Topics:
Pharmaceutical compositions containing Didemnins
Acyl Didemnins Immunosuppressive Agents

UI 1709 - 3 Patents: Didemnins A-C , A-E, 1980 - 1993

Isolation of Didemnins
Patent# 4,493,796; Didemnins A, B + C ; 42,205 - UI 1709

Patent # 4,548,814; Didemnins; 42, 206 - UI 1709
 Patent # 4,782,135; Composition of Matter and Process; 41,780 - UI 1709
 Patent # 4,950,649; Didemnins and Nordidemnins Antiviral Activity; 42,207 - UI 1709
 Patent # 5,137,870; Didemnins and Nordidemnins antileukemia
 Japanese Patent # 01684261 - UI 1709
 European Patent # 48149 - UI 1709
 Composition of Matter and Process - In application for licensing, Serial # 461,346
 Didemninn Patents: UpJohn - Pharmamar. Transfer Claim
 Topics:
 Isolation of Purified Didemninn A
 Didemninn, Composition of matter and process
 Use of Didemnins and Nordidemnins to eradicate viruses
 Antiviral Peptides from a marine tunicate

Us Patent# 4,948,791: Didemnins X,Y; UIUC 89014; UI 2098, 1989 -1997
 40,344 CA, Didemnins X+Y
 40,344 JP, Didemnins X+Y
 40,344 EPO, Didemnins
 40,344, Didemnins X+Y - Foreign Applications
 AU Patent # 640130 ; US Patent 4,948,791 / 40,344
 Patent # 4,948,791 - Correspondence about patent application and amendments (1989 -
 1990; Divided in 2 folders)
 Topics:
 Novel Cytotoxic cyclic depsipeptides form the tunicate Trididemnum solidum
 Acyl Didemnins Immunosuppressive Agents

Didemninn Quantification - May 20, 1995, 1995
 Topics:
 Didemninn Quantification

Spectpmycins - Staley K.L.R, 1989- 1990
 Topics:
 A series of antimicrobial metabolites from Streptomyces Spectabilis

UI 1835 Disclosure; Antifungal Acids from Two Marine Sponges; KLR - Phillipson, Shaw, 1983 -
 1984
 Topics:
 Antifungal acids from two marine sponges
 Release of rights in inventions from UI to other institutions

UI F 1708: Antimicrobial Agent from Marine Sponges; KLR; P.D.Shaw; G.C. Harbour; A.a.
 Tymiak; J.B Gloer, 1980 - 1984
 Topics:
 Antimicrobial agent from marine sponges

Box 3

Pharmamar Patent Lists , 1997

Topics:
Patent application

Invention Disclosure Forms, Dates not specified

Topics:
Invention disclosure procedures at UI

Blank Forms - Power Attorney, Dates not specified

Eudistomins - UI 1815, 1982 - 1990

Patent # 4,631,149: Eudistomins - UI 1815
EP. Patent 0133 000 - Eudistomins - UI 1815
Topics:
Antiviral eudistomins from a marine tunicate
Leukemia screen testing

Patent # 4,908, 445 - March 90, 1990, 1995

U.S. Patent # 4,866,084: Topsentins (Divided in 2 folders), 1986 - 1995

Topics:
Phospholipase A2 Inhibitors
Biologically Active Bisindole alkaloid compounds

U.S. Patent # 4,737,510: Agelas; UI 1928 ; Patent Appl. Series # 93,819 - R. Saliwanchik, 1971-1976; 1978 -1990; 1992; 1999

UPI 1928 - Patent # 4,737,510 ; Correspondence 1992, 1999
References for Agelas Patent - Originals
Agelas Samples
Bristol - Myers RCT (Robert W. Piwonka)
Patent Corrections
U.S. Patent # 4,737,510: Agelas; Correspondence about licensing, Testing reports,
invention descriptions (Divided in 3 folders)

Topics:
Bioactive metabolites from the Caribbean sponge Agelas Coniferin
Natural products from Porifera
Metabolism in Porifera

Acarnidines- 1982 Request from B.T. Goldins, by D.W. Phillipson (Divided 2 folders), 1981 - 1983

Topics:

Compounds with active antibacterial agents

Acarnidines analogues

Polyandrocarpa Testing, Etc - Polyandrocarpidines. M. T. Cheng, 1976- 1989

Topics:

Polyandrocarpidines - antibacterial activity

Names

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Organizations

School of Chemical Sciences, UIUC

Department of Health and Human Services

National Cancer Institute - Division of Cancer Treatment

National Institute of Allergy and Infectious Diseases

Department of Health, education and Welfare - Public Health Service - National Institutes of Health

National Institutes of Health

National Science Foundation

American Chemical Society- Division of Organic Chemistry

The U.S Department of Commerce - Patent and Trademark Office

European Patent Office

Canadian Patent Office

Roswell Park Memorial Institute - Department of Health, State of New York.

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Law Offices - Merriam, Marhall, Shapiro and Klose (Formerly Merriam, Marshall and Bicknell)

Saliwanchik & Saliwanchick, Patent & Trademark Law

The UpJhon Company

M.L. Kalinowski and Associates- Consultants

Department of Enterprise, Patent Office, State House, London

Marks & Clerk , Chartered Patent Agents, European Patent Attorneys

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Sterling Drug Inc - U.S.

Beecham Pharmaceuticals- London

Bristol Laboratories- U.S.

The Wellcome Research Laboratories -Burroughs Wellcome Co.

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Schering Plough Corporation- U.S.

Hoffman- La Roche Inc - U.S.

The Salk Institue for Biological Studies

Pharmazeutische Fabrik, Esslingen /Neckar

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