



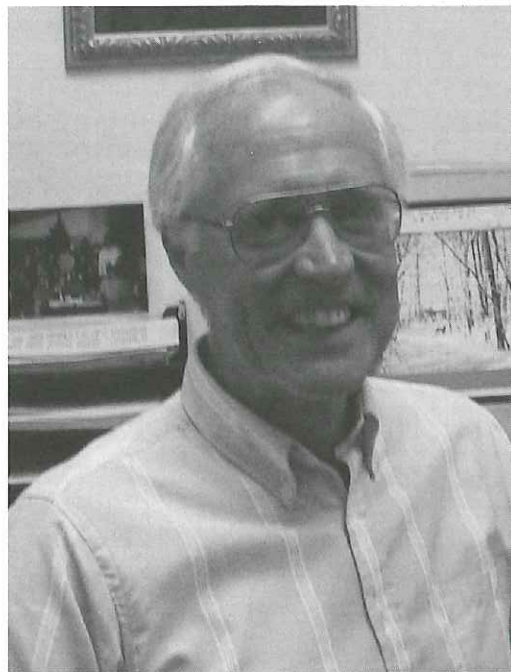
C. RICHARD HUTCHINSON RECEIVES 2000 ASP RESEARCH ACHIEVEMENT AWARD

Professor C. R. Hutchinson of the School of Pharmacy, University of Wisconsin, and of Kosan Biosciences, Hayward, CA, has been selected as the winner of the 2000 ASP Research Achievement Award. He received the award in July at the ASP Meeting in Seattle.

Hutchinson received his undergraduate training in pharmacy at The Ohio State University and did his Ph.D work under the guidance of one of the world leaders in natural products biosynthesis, Professor Edward Leete, at the University of Minnesota.

Following a postdoctorate with Sir Alan Battersby at Cambridge University, he started his independent academic career at the School of Pharmacy, University of Connecticut, but soon moved to the University of Wisconsin-Madison, where he last held the Edward Leete Chair in Medicinal Chemistry. In March of this year he accepted a position as Vice President of Research at Kosan Biosciences.

His early work dealt with the biosynthesis of indole alkaloids in plants and with related aspects of the formation of iridoid compounds.



Particularly noteworthy among the work from this era are his studies on the antitumor alkaloid, camptothecin, which to this day represent most of what we know about the biosynthesis of this important compound.

In 1981--82 Hutchinson made a radical change in the direction of his research career. Recognizing that new approaches to biosynthesis were needed, he embarked on sabbaticals with two of the leaders in the emerging field of *Streptomyces* genetics, first Professor Julian Davies, then at the University of Wisconsin, and subse-

NEW MEMBERS

The Association welcomes the following new Active and Associate members.

New Active Members

- | | | |
|--|---|---|
| Everaldo Attard
University of Malta | Gilles Goetz
Monsanto Company
St. Louis, Missouri | Carrie Mosher
Idaho State University |
| John B. Atwater
Boulder, Colorado | Kathleen M. Halligan
Smithsonian Tropical Research Inst.
Panama | Tatsufumi Okino
Oregon State University |
| Ramesh Babu Badisa
Walker Cancer Research Institute
Tallahassee, Florida | Mary Kay Harper
University of Utah | Edward Pack
Bristol Myers Squibb
Wallingford, Connecticut |
| Daniel A. Benigni
Bristol-Myers Squibb
Syracuse, New York | Brian J. Hotovec
Bothell, Washington | David S. Pasco
University of Mississippi |
| Stewart Cameron
Canadian Forest Service
Fredericton, N.B., Canada | Rajesh Jain
Panacea Biotec, Ltd.
New Delhi, India | M.S.C. Pedras
University of Saskatchewan |
| Romila D. Charan
NCI-FCRDC/LDDR
Frederick, Maryland | Cindy L A. Jones
Lakewood, Colorado | Skevos Philianos
University of Athens |
| Ian F. DeVeau
United States Pharmacopeia
Rockville, Maryland | Sang Kook Lee
Ewha Womans University
Seoul, Korea | Anuchit Plubrukarn
Prince of Songkla University
Thailand |
| Gary W. Elmer
University of Washington | Hans Litten
Carter-Horner, Inc.
Montreal, Quebec, Canada | Ioana G. Popa-Burke
Paradigm Genetics, Inc.
Durham, North Carolina |
| Andrew Erickson
Northville, Michigan | Qing-Yi Lu
UCLA | Asfia Qureshi
Microcide Pharmaceuticals, Inc.
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University of Hawaii | Gary E. Martin
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University of Papua New Guinea |
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Hayward, California | Sonia Mesia-Vela
Rutgers University | Cesar Quintanilla Ripoll
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Sagitaro, Alicante, Spain |
| Stefan Gafner
Tom's of Maine
Kennebunkport, Maine | Lucinda Miller
Miller Pharmacotherapy
Consultants, Inc.
Amarillo, Texas | Ronald M. Schassburger
New York Chiropractic College
Ithaca, New York |
| Hanlin Gao
Ohio State University | Ademir Farias Morel
Universidade Federal de Santa Maria
Santa Maria, RS, Brasil | Anthony Scicluna-Spiteri
University of Malta |
| Arthur C. W. Georgalas
Tri-K Industries
Northvale, New Jersey | Toshiyuki Mori
NCI-FCRDC, LDDR
Frederick, Maryland | Douglas C. Smith
California State University
San Bernadino |
| | | Mia D. Unson
Aquasearch, Inc.
Kailua-Kona, Hawaii |

Continued on page 4

AWARDS AND GRANTS FOR 2000

A. Research Starter Grants.

Two proposals were received in this category. The Committee chose the following for funding:

Professor Darrick Kim, "Isolation and structure determination of natural products from *Ginkgo biloba* L. (Ginkgoaceae) that protect neuronal cells from beta-amyloid insult: A drug discovery effort against Alzheimer's disease", University of Illinois at Chicago, \$5,000.

B. Undergraduate Research Grants.

Six proposals were submitted in this category; the Committee selected two for funding:

Ms. Kristin Kukenberg, "The catalytic importance of individual atoms within lanosterol and cycloartenol synthase", Rice University, (advisor: S. Matsuda), \$2,500.

Mr. Tyler Hodges, "Discovery of new angiogenesis inhibitors to treat cancer", University of Mississippi, (advisor: D. Nagle), \$2,500.

C. Student Research Awards.

Eight proposals were submitted in this category; the Committee selected four for funding:

Ms. Amber Coleman, "In vivo and in vitro experiments and radioactivity-guided isolation and characterization of the bicyclic pseudopterogorgia diterpene cyclase product from *Pseudopterogorgia elisabethae*", Florida Atlantic University, (advisor: R. Kerr), \$1,200.

Mr. So-Young Park, "Discovery of natural products from *Curcuma longa* L. (Zingiberaceae) that protect cells from beta-amyloid insult: A drug discovery effort against Alzheimer's disease", University of Illinois at Chicago, (advisor: D. Kim), \$1,200.

Mr. Nirmal Pugh, "Characterization of a new high molecular weight polysaccharide (NP18298) from *Aloe vera* with potent immunostimulatory activity", University of Mississippi, (advisor: D. Pascoe), \$1,200.

Mr. Hala Schepmann, "Cloning and characterization of the genes in ginkgolide biosynthesis", Rice University, (advisor: S. Matsuda), \$1,200.

D. Matt Suffness Award.

Three nominations were submitted in this category; the Committee selected two for funding:

Dr. Barry O'Keefe, National Cancer Institute, Frederick Cancer Research Center, \$1,000.

Dr. Ben Shen, Univ. of California at Davis, \$1,000

E. Travel Grants for Students.

Eight applications were submitted in this category; the Committee selected seven for funding:

Mr. Karl Bailey, Univ. of California at Davis, \$600.

Mr. Parnali Chatterjee, Northeast Louisiana Univ., \$600.

Mr. Nisit Kittipongpatana, Univ. of the Sciences in Phila., \$600.

Ms. Jeanne Kuhajek, Univ. of Mississippi, \$600.

Mr. Young Lim, Pusan National Univ., \$600.

Ms. Melany Puglisi, Univ. of Mississippi, \$600.

Mr. Michael Tims, Univ. of Maryland, \$600.

F. Travel Grants for Active Members.

Four applications were submitted in this category; the Committee selected four for funding:

Dr. Gil Belofsky, The Univ. of Tulsa, \$500.

Dr. Leng Chang, Univ. of Ill. at Chicago, \$500.

Dr. Adedayo Otunola, Univ. of Waterloo, Ontario, \$500.

Dr. Deniz Tasdemir, Univ. of Utah, \$500.

G. Kilmer Prize.

Three applications were received in this category; the Committee selected one for funding:

Mr. Nirmal Pugh, "Characterization of a new high molecular weight polysaccharide (NP18298) from *Aloe vera* with potent immunostimulatory activity", University of Mississippi, \$300.

New Members continued from page 2

David E. Wedge
USDA
Oxford, Mississippi

Christopher J. Welch
Agrivir A.B.
Uppsala, Sweden

Rongyuan Xie
Columbia University

Chong-Ren Yang
Chinese Academy of Sciences
Kunming, Yunnan, P.R. China

Mashitah M. Yusoff
Institut Biologi Tropika and
Pemuliharaan
Kota Kinabalu, Sabah, Malaysia

Hongjie Zhang
University of Illinois at Chicago

Associate Members

Nicholas D. Anastas
Massachusetts Department of
Environmental Protection

Arunporn Itharat
Prince of Songkla University
Thailand

Luke Chadwick
PCRPS
Chicago, Illinois

Petra Eichelsdoerfer
Bastyr University
Bothell, Washington

Frank Alexander Hamill
University of Illinois at Chicago

Lestat C. Kismartoni
University of Illinois at Chicago

Rafikali A. Momin
Michigan State University

Patricia Harrigan Nadosy
City University of New York

Jeffrey A. Pfefferkorn
Scripps Research Institute
San Diego, California

Heather M. Ryan
University of the Sciences in
Philadelphia

Hai An Zheng
University at Albany, SUNY



TELLER'S REPORT

The Teller's Committee, appointed by President James B. Gloer, now wishes to report the following results of the 1999 election:

Vice President (2000-2001)--
S. William Pelletier

Executive Committee Member (2000-2001)--
John A. Beutler

Constitution and By-Laws Amendments--
None considered

A total of 1068 ballots (644 USA and 424 non-USA) were mailed in late January 2000. Of this total, 411 ballots (310 USA and 101 non-USA) were returned and counted. Therefore, 38% of the qualified voting members of the ASP participated in the election.

HUTCHINSON, CONTINUED FROM PAGE 1

quently Professor David Hopwood at the John Innes Institute in Norwich, UK. From this basic retooling exercise Professor Hutchinson emerged completely focused on the molecular biology of secondary metabolite formation in Actinomycetes, the field in which he has established himself as one of the world leaders. He made his mark primarily with studies on various polyketide metabolites and on the sugar moieties present in many antibiotics.

His seminal studies on the genetic organization and control of the biosynthesis of tetracenomycin, a polycyclic aromatic polyketide, have made the type II polyketide synthase (PKS) assembling this molecule one of the two best understood of these enzyme systems. Highlights of this work are the cloning, sequencing and expression of the entire tetracenomycin gene cluster, the reconstitution of the enzymatically active polyketide synthase from the individual recombinant component proteins, and his contributions to the understanding of the programming rules for type II polyketide synthases. This work led logically to his very extensive and important studies on the genetics of formation of daunomycin, an important clinical antitumor drug, and on its genetic regulation. In addition to the characterization of many of the genes and their products, these studies have led to practical advances in the production of daunomycin and related compounds, the subject of several patents.

These studies were paralleled by work on several compounds assembled by type I modular polyketide synthases, particularly erythromycin and, more recently, rifamycin. Early on, he and, independently, Cane carried out one of the seminal experiments on type I polyketide synthases, demonstrating for the first time the processive nature of polyketide

assembly on these enzymes. His sequencing of the entire 50 kb rifamycin PKS is an impressive piece of work which has laid the foundation for the functional analysis of these genes and their use in the engineering of new rifamycins and other ansamycins.

One of the major contributions of Professor Hutchinson is his work on providing the tools for the application of the genetic/enzymatic machinery involved in antibiotic biosynthesis to the generation of structural diversity for new drug discovery. Together with the Hopwood/Khosla groups he is one of the pioneers in developing the concept of combinatorial biosynthesis into a practical reality. Similarly, he is pioneering the use of metabolic engineering in this field to access new commercially useful structural entities, as demonstrated recently by the genetic engineering of a producer of epirubicin, an antitumor agent with clinical potential which so far could only be prepared by a cumbersome chemical reaction sequence.

In addition to his many research accomplishments, Prof. Hutchinson has trained a generation of young scientists in the molecular biology of secondary metabolisms, who now occupy influential positions in industry and academia, and through frank and generous scientific exchanges with colleagues the world over he has provided tremendous intellectual stimulus to the field. It is extremely fitting that his accomplishments are being recognized by his selection as the recipient of the 2000 ASP Research Achievement Award.

CONGRATULATIONS!

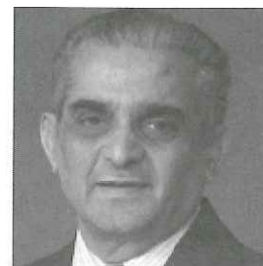
WALL AND WANI RECOGNIZED BY THE NCI



Monroe E. Wall

Monroe E. Wall and Mansukh C. Wani have been awarded the Charles F. Kettering Award for 2000. This award is given annually at the General Motors Cancer Research Foundation Annual Scientific Conference of the NIH for the most outstanding recent contribution to the diagnosis and treatment of cancer. Drs. Wall and Wani were honored for their discovery

and development of the anticancer drugs Taxol[®] and Camptothecin[™]. These two researchers have been previously honored by the National Cancer Institute Award of Recognition in 1996. Congratulations Monroe and Mansukh.



Mansukh C. Wani

NEW BOOKS

The editors extend their apologies to the co-authors of *Tyler's Herbs of Choice* (James E. Robbers) and *Tyler's Honest Herbal* (Steven Foster). We omitted their names in the Spring 2000 issue of the ASP Newsletter.

UBC Press
6344 Memorial Road
Vancouver, BC Canada V6T1Z2
Tel: 1-800-561-8583
Fax: 1-800-565-3770/604-323-2600
E-mail: custserv@raincoast.com
Aboriginal Plant Use in Canada's Northwest Boreal Forest - Robin J. Marles, Christina Clavelle, Leslie Monteleone, Natalie Tays and Donna Burns, Eds., 1999, 256 pages, Hardbound or Paperback. Hardbound: ISBN: 0-7748-0737-7, \$75.00. Paperback: ISBN: 0-7748-0736-9, \$25.95.

Elsevier Science Press
P.O. Box 882
New York, NY 10159-0882
Tel.: (+1) 212-633-3730
Toll Free: 1-888-437-4636
Fax: (+1) 212-633-3680
E-mail: usinfo-f@elsevier.com
Alkaloids: Chemical & Biological Perspectives:
Volume 14. S.W. Pelletier, Editor, 2000, 560 pages, Hardbound. This volume includes: "The Bisbenzylisoquinoline Alkaloids - A Tabular Review" written by Paul L. Schiff, Jr.; "Alkaloids from Malaysian Flora" by Toh-Seok Kam; and "Applications of Palladium Chemistry to the Total Syntheses of Naturally Occurring Indole Alkaloids" by Jie Jack Li. \$292.50 USD. ISBN: 0-08-043665-X.

Visit the ASP website at <http://www.phcog.org/>

MEETINGS

Future ASP Meetings

- 2001 - Oaxaca, Mexico
 2002 - July 27-31, New Brunswick, NJ, joint with
 Monroe Wall Symposium

Future AAPS Meetings - 2000

- October 29 - November 2 - Annual Meeting and
 Exposition, Indiana Convention Center,
 Indianapolis, Indiana

Other Meetings of Interest—2000

September 3-7, Zurich, Switzerland. International Congress and 48th Annual Meeting of the Society for Medicinal Plant Research (GA)/ 6th International Congress of the International Society for Ethnopharmacology (ISE). Contact: Prof. Dr. O. Sticher, GA/ISE-Congress, Institute of Pharmaceutical Sciences, ETH Zurich, Winterthurerstr. 190, 8057 Zurich, Switzerland. Fax ++41-1-632.68.82; e-mail: pharmacognosy@pharma.ethz.ch; Website: www.pharma.ethz.ch/pharmacognosy

September 18-28, Antananarivo, Madagascar. International Meeting on Natural Products, Pharmacology, Biodiversity, Environment, Fundamental and Applied Science. Contact: Prof. Marta Andriantsiferana, Chairwoman, Scientific Organizing Committee, Laboratoire de Chimie Organique, "Produits Naturels", LPN, 17, Cité Mahatazana, Ampandrianomby, Antananarivo 101 - Madagascar, Tél/Fax : 261 20 22 407 06, e-mail : martamam@dts.mg

October 11-13, Munich, Germany. The 3rd International Congress on Phytomedicine. Contact: Prof. Dr. H. Wagner, Institut fuer Pharmazie - Zentrum fuer Pharmaforschung, Pharmazeutische Biologie, Butenandtstr. 5 - 13, 81377 Muenchen, Germany, FAX: +49-89-2180-7051, E-Mail: H.Wagner@cup.uni-muenchen.de

October 14-15, New York City, NY. Third Annual Ayurveda Conference in New York. Contact: Dr. Jayaraman, Exec. Dir. Bharatiya Vidya Bhavan, Tel.: 212-989-8383.

October 18-20, Rothamsted, Harpenden, Herts, UK. Bioproducts from Plants and Microbes. Contact: Dr. Roger Atkin, "Rothamsted International BioMarket 2000", Rothamsted, Harpenden, Herts AL5 2JQ, U.K. Tel: +44(0)1582 763133 ext. 2840, Fax: +44(0) 1582 760981, E-mail Roger.Atkin@bbsrc.ac.uk

November 6-9, Tehran, Iran. 1st International Congress on Traditional Medicine and Materia Medica. Contact: M. Mosaddegh, Ph.D., Chair, Organizing Committee. P. O. Box 14155-6153, Tehran/I.R. Iran

November 13-14, Pomona, CA. Phytochemicals: From Harvest to Health . Contact: Mark Meskin, Ph.D. Program Chair, Dept. of Food, Nutrition and Consumer Sciences, California State Polytechnic University, 3801 West Temple Ave., Pomona, CA 91768, Phone: 909/869-2226, Fax: 909/869-5078, www.csupomona.edu/~agri/

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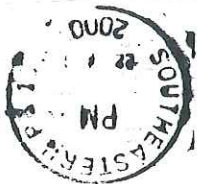
The American Society of Pharmacognosy offers a placement service to aid our members in seeking positions or employees. This service is available only to ASP members and is free to both the applicant and the prospective employer. Once an application is submitted, it will remain on file for one (1) year, at which time it will be destroyed. The applicant should realize that this is not a resume service and that the application will be submitted to the prospective employer exactly as submitted (i.e. the submitted form will be photocopied, then sent to the prospective employer). All information submitted will be held in strict confidence.

Forms and further information may be obtained from:

Joseph M. Betz, Ph.D.
 American Herbal Products Association
 8484 Georgia Avenue, Suite 370
 Silver Spring, MD 20910 USA
 Fax: (301) 588-1174
 Phone: (301) 588-1171 ext. 103
 email: jbetz@ahpa.org

Visit the ASP website at <http://www.phcog.org/>

Dr. E. John Staba
2840 Stinson Blvd NE
Minneapolis MN 55418



David J. Slatkin, Ph.D., Treasurer
The American Society of Pharmacognosy
P.O. Box 12548
Glendale, Arizona 85318-2548

MEMBERSHIP

Membership in the American Society of Pharmacognosy is recognized in several categories:

Full Membership

Full membership is open to any scientist interested in the study of natural products. Dues are \$25.00 per year. In order to receive the *Journal of Natural Products* the subscription rates are as follows: United States, Canada, and Mexico: \$62 (Print edition), \$50 (Web edition), \$112 (Both Print and Web); All other countries: \$98 (Print edition), \$50 (Web edition), \$148 (Both Print and Web)

Associate Membership

Associate membership is open to students of pharmacognosy and allied fields only. These members are not accorded voting privileges. Dues are \$15.00 per year. In order to receive the *Journal of Natural Products* the subscription rates are as follows: United States, Canada, and Mexico: \$47 (Print edition), \$50 (Web edition), \$97 (Both Print and Web); All other countries: \$83 (Print edition), \$50 (Web edition), \$133 (Both Print and Web).

Emeritus Membership

Emeritus membership is open to retired members of the Society who maintained membership in the Society for at least five years. Dues are \$5.00 per year. These members receive the *ASP Newsletter*. Emeritus members may subscribe to the *Journal of Natural Products* at the Full Member rates.

Honorary Membership

Honorary members are selected by the Executive Committee of the American Society of Pharmacognosy on the basis of meritorious service to pharmacognosy.

Present Honorary Members are:

- Dr. Arnold Brossi, National Institute of Health, MD
- Dr. David P. Carew, University of Iowa
- Dr. Norman R. Farnsworth, University of Illinois
- Dr. R. Hegnauer, Leiden, Netherlands
- Dr. Albert Hofmann, Switzerland
- Dr. S. William Pelletier, University of Georgia
- Dr. James E. Robbers, Purdue University
- Dr. Richard E. Schultes, Harvard Botanical Museum
- Dr. E. John Staba, University of Minnesota
- Dr. Varro E. Tyler, Purdue University
- Dr. Hildebert Wagner, University of Munich
- Dr. Monroe E. Wall, Research Triangle Institute, NC
- Dr. Heber W. Youngken, Jr., University of Rhode Island

*Additional information about memberships may be obtained by writing to the Treasurer of the Society:

David J. Slatkin, Ph.D., Treasurer
The American Society of Pharmacognosy
P.O. Box 12548
Glendale, AZ 85318-2548

ASP Newsletter

Joy B. Reighard, Ph.D.
Editor

Barbara H. Grissani
Editorial Assistant

Deadlines for submission of information are as follows:

- Spring Issue - March 1st
- Summer Issue - June 1st
- Fall Issue - September 1st
- Winter Issue - December 1st

Send information to:

Joy B. Reighard, Ph.D., Editor
ASP Newsletter
Temple Univ. School of
Pharmacy
3307 N. Broad Street
Philadelphia, Pennsylvania
19140

Phone: (215) 707-4946

Fax: (215) 707-3678

E-mail:

reighard@astro.temple.edu

