

The Record

GRANTS AND AWARDS

University of Arizona. J. Lyle Bootman has received \$41,395 from the American Society of Consultant Pharmacists, for the study, "Pharmacoeconomic analysis of drug related morbidity and mortality in nursing facilities." Paul Consroe has been awarded a grant of \$49,522 per year for three years for the project, "Antiemetic drug development for cancer treatment," from Arizona Disease Control Research."

University of Connecticut. Alex A. Cardoni is co-principal investigator on a \$10,000 grant from the Hartford Hospital Research Foundation for the pilot phase study "Pindolol Augmentation of Antidepressant Response." Zbigniew J. Witczak has received \$7,500 from Somatogen Inc. to study the "Activation of Carbohydrates for protein modification."

Florida A & M University. Judith Jones has received a grant of \$25,000 from the Centers for Disease Control for the project "HIV/AIDS Assessment." Cynthia Harris has been awarded a grant of \$34,992 from the National Library of Medicine for the study "Enhancing community-based training and access to HIV AIDS-related information."

University of Florida. Margaret James has received a grant from NIEHS in the amount of \$32,107 to study "Health effects of chlorinated compounds." Nicholas Bodor has been granted \$140,960 for research titled, "Delivery of opioid analogs to the brain." Raymond Bergeron has received \$156,000 from Sunpharm for research titled "Olyamine analogs: Their synthesis and use as human pharmaceuticals."

Mercer University. William N. Kelly has been awarded a grant of \$10,000 from The Institute for Advanced Studies in Medicine for the study, "Identification of risk factors for medication disability."

Idaho State University. Cindy M. Wilson has received a \$6,000 grant from the 1996-97 American Association of Colleges of Pharmacy Novo Nordisk Pharmacy Practice Diabetes Program for a pharmacy-based drug education program directed towards improved diabetes management. Anna Ratka received a \$93,400 grant from the NSF-Idaho EPSCoR Faculty Development Program to study, "The effects of novelty stress and sender on tolerance to narcotics."

University of Illinois. Michael Groves has been awarded a NSF grant in the amount of \$499,165 for the study, "Enhancement of the deep fermentation production of immune stimulants." Additional NSF grants have been received by: Anton Hopfinger, \$399,695 to study the "Rational design and evaluation of drugs;" and Gail Mahady, \$590,484 for "Signal transduction in benisophenanthridine alkaloid biosynthesis." Michael Johnson has been awarded \$165,000 by the American Heart Association for the project, "Structure-based Factor XA and thrombin inhibitor design." The following have received NIH grant awards: Ludwig Bauer, \$133,101 for "Synthesis and bioactivity of potential delta antagonists;" Judy Bolton, \$537,000 for "Biotransformation of estrogens to carcinogenic quinoids," and \$349,772 for "Formation and reactivity of toxic quinone methides;" Alexander A. Neyfahk, \$840,253 for "Natural functions of the *Bacillus* multidrug transporters; and \$551,499 for "*Bacillus subtilis* multidrug transporter;" Richard Van Breemen, \$804,080 for "Prevention of DNA oxidation by tocopherol and carotenoids;" Alan Kinghorn, \$784,924 for "Novel strategies for plant-derived anticancer agents;" Cindy Angerhofer, \$105,265 for "Discovery and characterization of potential antimalarial agents;" John Pezzuto, \$551,191, for "Natural inhibitors of carcinogenesis;" Tony Kong, \$680,307, for "Signal transduction mechanisms of chemopreventive agents;" Adam Negrusz, \$226,900 for "Local population epidemiological research on drug abuse;" and Eugene Woods, \$1,10,048 for "Preclinical toxicology studies of chemopreventive agents."

Purdue University. The following have received grant awards from the Public Health Service: William M. Baird, \$205,938, for research titled "Modifiers of carcinogenesis - Environmental PAH mixtures;" Stephen R. Byrn, \$149,517, for "Predoctoral training in chemical pharmacology;" Vincent J. Davisson, \$223,314, for research on "Enzymes of the histidine biosynthetic pathway;" Mark A. Green, D.J. Waters and P.S. Low, \$272,739, for the study, "Radiopharmaceuticals targeted to tumor folate receptors;" Gary E. Isom and Joseph L. Borowitz, \$126,610, for the research titled, "Cyanide-induced neurotoxicity;" Jennifer M. Martin, \$101,486, to study "Human B-cell transformation by Epstein-Barr virus;" and John P. Vanden Heuvel, \$6,500, for the project, "Altered gene expression in rat tissues following administration of peroxisome proliferators." Robert K. Chalmers has received \$16,643 from the University of Utah for the study "Educating patient-centered pharmacists: Service learning as a means of integrating social awareness and civic responsibility in pharmacy school curricula." Ching-er Chang has been awarded a grant of \$235,672 by Creative Biomolecules for research on "Novel selenophene antitumor agents." Jennifer M. Martin has received \$90,500 from the American Cancer Society to study, "Molecular basis of B-cell immortalization by the LMP-1 oncoprotein of Epstein-Barr virus." Stephen L. Nail has received \$6,000 from American Biogenetic Sciences for the project, "Freeze drying of monoclonal antibody formulations." Nicholas G. Popovich has received \$17,118 from Wishard Memorial Hospital for the project "Physician order entry system." Joseph Thomas has received \$24,256 from Health Economics Research Group of Eli Lilly and Company for "Technical assistance program."

Drake University. Charles Phillips and Lon Larson have been awarded \$12,870 from the Iowa Department of Human Services

and Iowa Medicaid Department for the study. "An evaluation of Medicaid's drug prior authorization program." William Fasset and Thomas Pursel of the College of Business and Public Administration have received \$80,546 from the American Pharmaceutical Association and SmithKline Beecham Pharmaceuticals for the "APhA/SmithKline Beecham Community Pharmacy Management Programs." Reza Mehvar has received a grant in the amount of \$7,500 from Sandoz Research for the study, "Dextran as carriers for drug delivery." Richard Morrow and Donald Stratton (Biology Department) have been awarded \$25,910 from Iowa Soybean Promotion Board for the project, "Soybean phytoestrogen prevention of hypertension." John Rovers has received \$5,600 from Glaxo Health Management for the project "Evaluation of patient satisfaction with community pharmacies practicing under a pharmaceutical care model." Darrel Bjornson has been granted \$13,440 from Glaxo Health Management for the study, "Estimation of the effect of a retrospective drug utilization review program on health care outcomes using an expert panel." Harry Hagel, John Rovers and William Fasset have received \$39,958 from American Association of Colleges of Pharmacy/SmithKline Beecham Foundation GAPS Award for the project, "Development of teaching cases for community-based pharmaceutical care."

University of Kansas. Gunda Georg, R. Himes and David VanderVelde have received \$222,157 from the National Institutes of Health for research titled, "Pharmacophore and interactions with tubulin of cytophycins." The NIGMS has awarded Robert Hanzlik \$172,930 for the research project, "Reactive metabolites and drug toxicity." Jeffrey Aube has received \$171,731 for "New methods for the synthesis of alkaloids" from NIGMS. Ronald Borchardt, John Stobaugh and David Vander Velde have received \$205,452 from NIDA to study "Cyclic prodrugs of opioid peptides."

University of Kentucky. The following NIH grants were funded: Jack Olson, \$214,942, for research entitled, "Polyamines and monocrotaline pneumotoxicity;" Ching-Shih Chen, \$157,933, for "Inositol phosphates: molecular and functional diversity;" Myron K. Jacobson, \$179,319, for "Alteration of NAD metabolism by chemical carcinogens;" and Jim Pauly, \$104,214, for "Effects of prenatal nicotine exposure of brain nAChR." The following grants were received from the American Heart Association, Kentucky affiliate: Dennis Clifton, \$11,998, for the study "Effects of myocardial ischemia on beta receptor subtype numbers and electrophysiologic response to beta₂ receptor stimulation;" Edward Soltis, \$13,132, for the project, "Angiotensin and the vascular ODC polyamine system in hypertension;" and Lisa Cassis in the amount of \$14,989 to study, "Insulin and vascular responsiveness." Thomas Burke received funding from the American Cancer Society in the amount of \$104,408 for research entitled "Chemical dynamics of camptothecin in drugs in human blood." Patrick DeLuca received a grant award from the Genetics Institute in the amount of \$391,330 for research entitled "Development of a synthetic composite system for a bone morphogenic protein." Boyd Haley received funding from the Ephraim McDowell Cancer Research Foundation in the amount of \$30,000 for the research project, "Application of photoaffinity labeling."

Northeast Louisiana University. Mansoor A. Khan has been awarded \$22,000 by B.F. Goodrich Company for the project entitled, "Preparation and stability characterization of controlled release formulations with carbopol 971P." Hari Mehendale received second year funding in the amount of \$74,965 from the Agency for Toxic Substances and Disease Registry, for research on "The public health assessment of toxic interactions for chemical mixtures."

Northeastern University. James J. Gozzo has received a grant of \$11,140 from Research Corporation Technology to study, "Rabbit anti-dog lymphocyte serum production." Roger Giese has been granted \$140,000 by the U.S. Army for the project, "Detection of DNA adducts in human breast tissue."

University of Missouri-Kansas City. Orisa Igwe has received a \$17,106 UM research board grant to study "Phosphoinositide transduction system and membrane fluidity in aging." Thomas P. Johnston has a two-year \$52,190 grant funded by the American Heart Association-Kansas to study "P-407-induced atherogenesis in mice and its effect on transcription of lipoprotein lipase and HMG-CoA reductase." Patricia A. Marken is co-investigator in a NIDA study award of \$25,000 for the project, "Role of GABA and glutamate in cocaine addiction." She received \$25,000 for year one of the study.

University of Montana. Keith Parker has been awarded \$95,473 by NIH to conduct research on peptide probes of the 5HT_{1A} Receptor-G protein interface. Gayle Cochran has received an additional \$49,490 from the Montana Department of Social and Rehabilitation Services to provide literature research for recommending drugs to include or exclude from the Montana Medicaid Outpatient Drug Formulary. Vernon Grund has been granted \$8,423 from Ribi ImmunoChem Research for cardiovascular research. Carlos Duran has been awarded \$34,000 from the International Heart Institute of Montana to investigate cardiac valve replacement and implantable cardiac devices. Chuck Leonard has received \$30,000 from MONTS/NSF to study disynaptic and presynaptic contributions to reciprocal inhibition in humans during voluntary tibialis anterior contraction. Gayle Cochran has received \$23,160 from Sage Incorporated to supervise pharmacy consultant services to Missoula nursing homes. Rick Offner has been granted \$240,000 from the Montana Department of Public Health and Human Services to study Montana welfare reform. Rick Offner and Tom Lerner have received \$32,118 from the Montana Department of Public Health and Human Services/HHS to perform data requirement's analysis for the Montana Health Information Network.

Creighton University. Craig Pedersen and Raytene Rospond has received a Health Future Foundation grant for \$692,248 for the Creighton University Center for Practice Evaluation and Outcomes Research. Craig Pedersen and Frances Schneider have been awarded a Health Future Foundation grant in the amount of \$5,935 for the project "Application of a production model to costs and benefits of doctor of pharmacy clerkships at teaching hospitals." Debasis Bagchi has received a grant from Interhealth Company in the amount of \$29,400 to study "Oxygen radical scavenging ability of proanthocyanidius (Phase II)" and a \$5,500 grant from InterHealth Company to "Determine the protective ability of proanthocyanidins against oxidative stress using laser scanning confocal microscopy." Christopher Destache has received a grant award from Society of Infectious Diseases Pharmacists in the amount of \$ 14,950 for the project, "Nitric oxide concentrations in *S. pneumoniae* meningitis: Correlations with cytopathy." Amy Haddad has received a \$1,000 grant and \$2,500 compliance casettes from Apex Medical Corporation for the Medication Compliance of Elderly Survey project. Alekha Dash has received a grant from Gattefosse Inc., France for \$3,056 to study the effect of GMP as a bioadhesive." Dr. Dash also received a grant from the State of Nebraska for \$15,591 to study "Development of a rapid nasal delivery system for nicotine replacement therapy for smoking cessation." Dr. Riche has received a \$19,435 grant from the Creighton University Cancer Center for a study entitled, "Synthesis and Pharmacological Evaluation of beta₂ selective bicyclooctahydroisoquinoline bronchodilators." Manzoor. Khan has been awarded received \$ 19,995 from the State of Nebraska for "Immunosuppressive effects of acyclovir derivatives on T-cell lymphoma." Sidney J. Stohs received a grant from the Air Force Office of Scientific Research for a three year award of \$339,000 for a project entitled "Common pathways in the toxicity of structurally diverse xenobiotics."

Rutgers University. Suzie Chen has received \$44,000 from the State of New Jersey-Commission on Cancer Research for a project entitled, "Characterization of transgenic mice predisposed to melanoma." Jun-Yan Hong has been granted \$189,967 by the Health

Effects Institute for the study "Role of human cytochrome P450E1 in the metabolism and health effect of gasoline ethers." Michael Iba has been awarded a \$176,430 grant by NIEHS for research titled, "P450 induction by acetone pyridine mechanisms/relevance." Herbert Lowndes has received \$ 100,000 from Johnson & Johnson for "Developmental effects of environmental chemicals." Herbert Lowndes and Kenneth Reuhl have been granted \$158,593 by NIH-NIEHS for the project "Neural metabolism and neurotoxicity." Patrick Sinko has received \$279,340 from Unigene Laboratories Inc. for "Integrated approach to the development of novel formulations for the oral delivery of small protein," and \$22,082 from Sharmatek, Inc. for the project, "Development of a pulsatile microparticulate captopril oral delivery system." Dong-Churl Suh has been awarded a grant from DuPont Merck to study "Generic drug substitution in community pharmacies." Eric Weyand has received \$28,000 from the Electric Power Research Institute, Inc. for "Assessing toxicology of sorbed MGP residue."

University of New Mexico. William G. Troutman has received a grant in the amount of \$174,761 from the National Library of Medicine for AND Interactive medical information system in New Mexico, which links medical and geographic data available to researchers in an easy-to-use format. Raymond W. Hammond has been awarded \$222,777 by the State of New Mexico Human Services Department, for a "Professional service contract for retrospective drug utilization review of the Medicaid program in New Mexico."

Albany College of Pharmacy. George Bailey has been awarded \$40,000 for three years by Baxter Healthcare Corporation to study, "Intermittent dosing in peritoneal dialysis." Hoard Colby has received an NIH grant of \$139,962 for research titled, "Changes in adrenal alpha-tocopherol with aging." Robert Levin has been granted \$140,000 by NIH to study, "Autonomic control of lower urinary tract function," \$50,000 for the project, "Benign bladder disease and mitochondrial function," and \$96,000 for a study titled, "Effect of tadenan on bladder function."

North Dakota State University. Gary D. Erdman has been granted \$204,696 by the Leukemia Society of American for the study, "Intracellular RBC pharmacokinetics of thiopurines in ALL." Edward O. Magarian has received \$145,508 from the Department of Health and Human Services, Public Health Service, Health Career Opportunity Program for the "Native American Pharmacy Program."

University of Toledo. Kenneth Bachmann has received a grant from Merck in the amount of \$50,220 for the project entitled "A double-blind parallel study to investigate the effect of MK-0966 on oral methotrexate pharmacokinetics in rheumatoid arthritis patients." Curtis Black and Dr. Bachmann have received a grant from A.R. Kamm Associates, Inc., Cary, North Carolina in the amount of \$42,570 for the project entitled "Effectiveness of oral dolasetron mesylate (50 mg) versus prochlorperazine in the treatment of nausea and emesis due to fractionated abdominal radiotherapy." Kathleen Olson Hagmeyer has received a grant from Merck & Company in the amount of \$84,800 to fund a project entitled "Cholesterol management services in a community pharmacy." Richard Hudson has received a grant from the Tulane University School of Medicine in the amount of \$68,000 for the project entitled "Reflux esophagitis." Marcia McInerney has received a grant from the Central Ohio Diabetes Association, Columbus, Ohio in the amount of \$49,964 for the project entitled "Unregulated insulin receptor expression on peripheral T cells: A potential prediction of diabetes onset." Katherine Wall has been awarded a grant from the University of Texas Health Science Center in the amount of \$44,418 for the project entitled "Peptide strategy for prevention of autoimmune myasthenia."

University of Oklahoma. Garo Basmadjian has received a grant of \$189,650 from the National Institute on Drug Abuse for his study "Vaccine producing catalytic antibodies against cocaine and a grant of \$203,000 from the National Center on Research Resources

for a NMR spectrometer. Lester Reinke received a grant of \$222,015 from the National Institute on Alcohol Abuse and Alcoholism for his study "Free radicals in alcoholic liver injury."

Duquesne University. Pai-Kai Li has received \$50,000 from Kyowa Pharmaceuticals for the research project, "Development of estrone sulfatase inhibitors." Aleem Gangjee has been awarded the second year of the NIH grant titled "Selective agents for opportunistic infections in the amount of \$ 162,450."

University of Pittsburgh. Patricia Kroboth has been awarded a grant of \$10,000 from ACCP for "DHEA and response to alprazolam in adrenal insufficiency." Robert Gibbs has received a grant of \$216,144 from NSF for "Effects of estrogen on cholinergic activity and NGF response." Gilbert Burckart has been awarded \$201,956 by NIH for the study "Drug disposition in liver transplant patients."

University of South Carolina. B. Michniak has received \$22,674 from ISIS Pharmaceuticals, Inc. for "Liposomal delivery of ISIS 3082 and ISIS 2302." B. Michniak and Kimberly Clark have been awarded \$240,000 for the study "Percutaneous absorption of twelve antimicrobial/antifungal agents."

South Dakota State University. Rajender Aparasu has received a grant of \$6,018 from Glaxo Wellcome Research to conduct "Opioid study" research. Kalpana Kamath has been awarded \$12,500 by PhRMA to conduct "Gellaan Micro" research.

University of Houston. Mustafa F. Lokhandwala has received a grant in the amount of \$1,682,652 from the University of Texas medical Branch at Galveston for the project, "Provision of pharmaceutical care in Texas prisons." Richard Bond has received a grant of \$41,800 from the American Heart Association for the project, "A proposed modification of receptor theory based upon demonstration of the constitutive activity of unliganded receptors." Diana Chow has received a grant of \$24,000 from Sage Pharmaceuticals for the project, "Antimicrobial activity of SSD gel versus two marketed SSD cream products."

Virginia Commonwealth University. Richard Glennon has received the following grants from NIDA: \$1,200,000 for "Chemical/behavioral studies on hallucinogenic agents;" \$20,000 for "Development of site-selective serotonergic agents;" \$20,000 for "Development of novel nicotine receptor ligands;" \$1,100,000 for the "Investigation of beta-carboline hallucinogens;" and \$640,000 for "Synthesis of nicotine analogs." Donald Abraham has received the following grant awards: \$263,669 for "Design and development of potential antisickling agents;" \$60,000 for "Development of an interaction model based on hydrophathy;" and \$386,571 for "Synthesis and development of new allosteric effectors of hemoglobin."

University of Washington. William M. Atkins has received \$20,000 in support of his research in "Glutathione S-transferase." Valerie Daggett has been awarded a grant of \$233,737 by the Office of Naval Research to study "Simulation studies of protein structure, dynamics, folding and function in mixed solvents," and \$90,183 for research titled, "Molecular dynamics simulations of protein unfolding." Gary Elmer has received \$180,288 from Biocodex for the project titled, "Mechanistic studies" and \$144,890 to study, "PMC relapse." Wayne Kradjan has received \$74,617 from King County Medical-Blue Shield for the study, "Evaluation of the effectiveness of the DPS standardcare asthma program in community pharmacy settings." Sidney D. Nelson has received a NIH grant award in the amount of \$181,622 for research titled, "Alteration of metabolism by structural modification." Allan E. Rettie has been awarded an NIH grant of \$152,878 for "Mechanisms of P-450 dependent desaturation" and \$129,028 for "Human FMOs: Determinates of substrate specificity." Sean Sullivan has received from the Agency for Health Care Policy and Research and the National Heart, Lung and Blood Institute a \$5 million Patient Outcomes Research Team (PORT) grant for a five-year research study titled "The cost effectiveness of the NHLBI asthma management guidelines."

Kenneth E. Thummel has received a \$15,000 unrestricted educational gift from Fujisawa U.S.A. Inc. in support of his research program on the metabolism of tacrolimus by cytochrome P450 3 A4 in the small intestine. Jash Unadkat \$25,000 from Hoffmann-LaRoche in support of his research in the pharmacokinetics and transplacental transfer of ddC in the macaque monkey and a grant from NIH in the amount of \$146,526 to study "In vitro models to predict in vivo interactions of anti-opportunistic infection drugs."

West Virginia University. Suresh Mudhavan, Folakemi T. Odedina and S. Alan Rosenbluth have received \$125,000 from Centers for Disease Control and Prevention for the project. "Developing pharmacists role in childhood immunization." Marie Abate and Paula Jo Stout have received a U.S. Department of Education FIPSE Program Award in the amount of \$182,538 for "Development of computerized multi disciplinary problem-based learning bases with concept map integration."

University of British Columbia. The following have received grant awards from the Medical Research Council: Helen Burt, \$27,912, for "Crystal induced inflammation: Neutrophil activation by crystals;" Peter Soja, \$13,892, for "State dependent reticular control of lumbar sensory neurons," and \$34,084, for "Transmission through ascending sensory tracts during wakefulness;" and Stelvio Bandiera, \$29,036, for "Hormonally-mediated alteration of hepatic cytochrome P450 expression by amoxifen." The following have received grants from the BC Heart/Stroke Association: Kath MacLeod, \$79,441, for "Changes in vascular reactivity in experimental diabetes;" John McNeill, \$73,456, for "Insulin and hypertension: Role of altered vascular biology;" and \$42,000, for "Biochemical alterations in diabetic cardiomyopathy;" Brian Rodrigues, \$42,000, for "Study of the mechanism(s) involved in the development of heart failure in the hypertensive diabetic rat;" Jack Diamond, \$52,288, for "cGMP and cGMP-dependent protein kinase in regulation of cardiac contractility;" and Sid Katz, \$82,407, for "Role of Endothelin and other peptides in the regulation of cardiac function." Tom Chang has received \$48,400 from BCHRF to study "Regulation of cytochrome P450 in human tumor cells." John McNeill has been awarded \$5,000 by the BC Ministry of Employment and Investment for a "Pilot investigation of vanadium accumulation in bone." Keith McErlane has received \$15,000 from Knoll Pharmaceuticals to study, "Synthesis, analgesic activities and tissue distribution of the metabolites of hydromorphone."

University of Manitoba. B. Hasinoff has been granted \$115,062 from the Medical Research Council of Canada to study "Interaction of doxorubicin and bisdioxopiperazines with DNA topoisomerase II." F. Burczynski has been awarded a grant of \$95,778 by the Medical Research Council of Canada for research titled, "Role of proteins on cellular substrate availability."

University of Nova Scotia. Eva Butler has received the third installment of \$18,000 from the "Natural Science and Engineering Research Council of Canada) grant for "Study of surface and bulk properties of drugs and drug delivery systems," and \$4,000 from the Merck Frosst Centre for therapeutic research to continue to explore applications of surface and colloid chemistry to pharmaceutical systems. Kristin Janke, Tom Birkness and members of the Maritime Pharmacy Patient Care Committee has received \$781 from Dalhousie's Pharmacy endowment Fund for "Analysis and reporting of Maritime patient services survey."

University of the Philippines. The following have received grants DOST-PCHRD: Jocelyn Bautista, \$1,132 for "Formulation of the leaves of *Orthosiphon aristatus*," Natividad De Castro and Leticia Guitars, \$22,264 for "Dosage forms from medicinal plant constituents," and \$8,830 for "Leucaena gum as an excipient in pharmaceutical dosage form." Mildred Oliveros has received \$12,150 from UPM-PGH for the study, "Development and optimization of some promising plant products as broad spectrum mosquito larvicides."