

2005-2006 ANNUAL REPORT

EXCITING CHANGES *on* THE HORIZON

UNIVERSITY *of* MARYLAND SCHOOL *of* PHARMACY



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LEADERSHIP

Dean
David A. Knapp, PhD

Associate Dean for Academic Affairs
David S. Roffman, PharmD, BCPS

Associate Dean for Administration and Finance
William J. Cooper, MBA

Associate Dean for Research and Graduate Education
Ilene H. Zuckerman, PharmD, PhD

Associate Dean for Student Affairs
Jill Morgan, PharmD

Chair, Department of Pharmaceutical Health Services Research
C. Daniel Mullins, PhD

Chair, Department of Pharmaceutical Sciences
Natalie D. Eddington, PhD

Chair, Department of Pharmacy Practice and Science
Magaly Rodriguez de Bittner, PharmD, BCPS, CDE

CENTERS

Center for Nanomedicine and Cellular Delivery
Hamid Ghandehari, PhD, *Director*

Center on Drugs and Public Policy
Francis B. Palumbo, PhD, JD, *Director*

Computer-Aided Drug Design Center
Alexander D. Mackerell Jr., PhD, *Director*

Maryland Poison Center
Bruce D. Anderson, PharmD, ABAT, *Director of Operations*

Office of Substance Abuse Studies
Anthony C. Tommasello, PhD, *Director*

The Peter Lamy Center for Drug Therapy and Aging
Bruce C. Stuart, PhD, *Executive Director*

Pharmaceutical Research Computing
Van Doren Hsu, PharmD, *Director*

the DEAN'S message

Much of the 2006 academic year was devoted to the preparation of a comprehensive self-study of our Doctor of Pharmacy Program. This was in preparation for the cyclical visit of assessors from the Accreditation Council for Pharmacy Education. A thorough examination conducted in March resulted in council action at its June meeting to extend our full six-year accreditation cycle through 2012.

The major deficiency cited was one that we all have known about since moving into Pharmacy Hall in the mid-1980s: The facilities available for the Doctor of Pharmacy Program are inadequate. They were inadequate when we occupied the building after losing two floors to cost cutting and we had an incoming class size of 100 students. They are even more inadequate today with our enrollment at 120 students each year. A major development in 2006 was to obtain planning funds for the much-delayed addition to Pharmacy Hall that will double the space in our main building.

The School received \$900,000 in facilities renewal funding that in conjunction with a \$491,000 federal grant and other funding will support a \$2.2 million refurbishing of the third floor of Pharmacy Hall. This will enable enlarging and improving the pharmacy practice laboratory facilities and adding several faculty offices. The School also received \$2 million in campus funding to build out nearly 30,000 square feet of space for the Pharmaceutical Health Services Research Department and the Maryland Poison Center in the Saratoga Building a few blocks from Pharmacy Hall.

2006 was also the first implementation year in our current Strategic Plan. Feature articles in this report focus on the School's progress in PharmD education. The Center for Nanomedicine and Cellular Delivery has fast become a focal point for interschool collaboration in nanotechnology. The Maryland P3 Program: Patients, Pharmacists and Partnerships, is developing a new practice model for pharmacists in patient self-management in rural Maryland in a pilot supported in part by the state Department of Health and Mental Hygiene.

The Department of Pharmacy Practice and Science has expanded its mission to provide high-level pharmacy care to the state's mental health facilities. Springfield Hospital Center is the latest facility to come under the wing of this program. The Maryland Poison Center continues to offer outstanding community service that provides a vital public health service to the citizens of Maryland.

The School of Pharmacy is moving forward to develop these and other programs despite the budgetary constraints that impact public higher education throughout the country. A major concern of our Board of Visitors is the ability of our School to continue to innovate, grow, and provide excellent programs without additional funding. In particular, this annual report describes and acknowledges the significant and essential support provided by our alumni and friends.

As the fourth-oldest pharmacy school in the nation, the School of Pharmacy is grateful for the confidence reflected in this support. We will continue to do whatever we can to live up to your expectations.

Sincerely,



David A. Knapp, PhD, Dean



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EDUCATION

As the UNIVERSITY of MARYLAND SCHOOL OF PHARMACY

LOOKS AHEAD TO THE SECOND DECADE OF THE 21ST CENTURY, PREPARING STUDENTS FOR CAREERS IN PHARMACY MEANS PREPARING THEM TO ENTER A HEALTH CARE SYSTEM THAT IS MORE CULTURALLY DIVERSE, MORE TECHNOLOGICALLY ADVANCED, AND MORE ORIENTED TO PERSONALIZED CARE THAN EVER BEFORE. IT ALSO MEANS ENLISTING STUDENTS AND FACULTY INTO A DIGITAL WORLD OF LEARNING, WHERE CONTENT CAN BE OBTAINED ANYWHERE, ANYTIME, BUT THE MAGIC OF STUDENT-FACULTY INTERACTION CONTINUES TO REIGN SUPREME.



PREPARING *for the* FUTURE: *a* NEW CURRICULUM, *a* SCHOOL ADDITION, *and* STUDENTS *at* SHADY GROVE

EDUCATING STUDENTS *for a* CHANGING PROFESSION

Driven by the School's Strategic Plan for 2005-2008 and the years beyond, the revitalized PharmD curriculum on the drawing board emphasizes – as always – excellence in professional competence. The curriculum requires students to own more responsibility for their success, encourages them to develop and employ better analytical and communication skills and, finally, educates them to more fully recognize and prepare for the cross-cultural and interpersonal nature of their chosen profession.

“Revisions to the curriculum are aimed at preparing students for the changing nature of pharmacy practice,” explains Raymond Love, PharmD, professor and vice chair, Department of Pharmacy Practice and Science, and chair of the curriculum committee. “The School recently underwent self-study as part of the reaccreditation cycle and received recommendations from the review. In addition, the Accreditation Council on Pharmacy Education recently adopted new accreditation standards for colleges of pharmacy.”

Taken together, says Love, it was clear that a curriculum not updated since the early 1990s needed to be revitalized. “Our goal with the revisions is to better prepare students for the changes we saw evolving over the last several years,” concludes Love.

“Many of those changes will be in clinical education and include instituting new methods to test a student's competence,” says curriculum committee member Stuart Haines, PharmD, professor and vice chair for education, Department of Pharmacy Practice and Science.

“Schools of pharmacy have struggled with how to best teach clinical skills and how to mix the clinical experience with the didactic instruction earlier in order to ensure competency prior to graduation,” says Haines.

The revised curriculum will include an Objective Structured Clinical Exam (OSCE) of a professional “clinical actor” requiring a full assessment by the student.

“It is a high-level simulation, problem-solving exam that requires students to comprehensively use their knowledge and to bring to bear a number of skills,” explains Haines. “Accreditation organizations are increasingly encouraging schools to use highly structured, skills-based simulation exams like OSCEs throughout the curriculum to assess student performance.”



CREATING MORE SPACE *for* STUDENTS

As the only pharmacy school in the state, the University of Maryland is acutely aware of the critical shortage of graduating pharmacists in the area. It hopes to resolve this crisis with the help of a \$59 million, 84,000-square-foot addition to Pharmacy Hall. A new lecture hall will seat 225.

The expanded building will address a severe shortage in lecture hall, classroom, and technology educational space. Yearly enrollments at the Baltimore campus have been capped at 120 incoming pharmacy students. The long-range goal is to be able to accept 200 new students each year.

After a 14-year wait, planning funds for the new building, which will be adjacent to 20 N. Pine Street, facing north, are now part of the Fiscal Year 2007 budget. The building is well into its planning stages, says William Cooper, MBA, associate dean for administration and finance.

“We have narrowed the field of architects and by May, the selection will be finalized,” predicts Cooper. “The next step will be to go to Annapolis and present the plans to the Board of Public Works. Design of the building could start in June.”



Preparing students for careers in pharmacy means preparing them to enter a health care system that is more culturally diverse, more technologically advanced, and more oriented to personalized care than ever before.

SHADY GROVE CAMPUS *to enroll* PHARM D STUDENTS

With the expansion of Pharmacy Hall some time away, the School of Pharmacy is looking at alternatives to alleviate the shortage of pharmacists.

To help meet the need for pharmacists, the School is enrolling 40 PharmD students who will complete their program entirely at The Universities at Shady Grove, a facility in Montgomery County in the Maryland suburbs of Washington, D.C. The site is shared by eight University of Maryland institutions.

David Roffman, PharmD, associate dean for academic affairs, says that the Shady Grove initiative is not a short-term solution to an enrollment issue, but part of a 10-year growth plan developed by Dean Knapp and endorsed by the Board of Regents.

“The Shady Grove facility will provide a way for us to implement the same high-quality instruction that students receive in Baltimore,” says Roffman. “Outcome and performance objectives will be absolutely the same.”

The School of Pharmacy has the distinction of being the first to offer a complete professional doctoral program on the Shady Grove campus. “We want to keep up with the need for more pharmacists, but our current facility in Baltimore will not accommodate more than 120,” said Robert Beardsley, RPh, PhD, professor and president of the Faculty Assembly.

Students at Shady Grove will have all of the advantages of the Baltimore campus, including a pharmacy practice lab and access to lab facilities.

Shady Grove students will not feel isolated.

“The students at Shady Grove will be part of the Baltimore program,” promises Roffman. “Academically and socially, they will be an integral part of the School of Pharmacy.”

According to Dean Knapp, students at Shady Grove will attend some events on the Baltimore campus, which “will remain the hub for pharmaceutical education in Maryland.”

During their first year, students at Shady Grove will receive much of their material through “digital education,” while in their second and third years, students will receive small group and lab instruction. Fourth-year students will take advantage of nearby clinical settings for rotations.

“An early question was: ‘Could we find experiential rotations for these students?’” says Cynthia Boyle, PharmD, assistant professor, Department of Pharmacy Practice and Science and director of the Experiential Learning Program.

Ample resources for experiential learning and future employment are nearby, says Roffman. The Shady Grove facility is located near hospital and nursing facilities, bioscience companies, and a number of government and private institutions and research facilities, including the U.S. Food and Drug Administration, the Institute for Genomic Research and the Center for Advanced Research in Biotechnology.

“There has been amazing support from the alumni association and we are getting great support from the administrators at Shady Grove as well,” says Boyle. “Everyone is excited about the new opportunities offered at Shady Grove.”

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RESEARCH

SINCE ITS ESTABLISHMENT *in 2005*, THE SCHOOL OF PHARMACY'S CENTER FOR NANOMEDICINE AND CELLULAR DELIVERY (CNCD) HAS MADE GREAT STRIDES IN CREATING A MULTIDISCIPLINARY RESEARCH ENVIRONMENT FOR DESIGNING AND DEVELOPING REVOLUTIONARY NANOSYSTEMS AND DEVICES TO TREAT DISEASES. THE CENTER'S GOAL OF CREATING AND DELIVERING NOVEL THERAPEUTICS DEPENDS ON FABRICATING NEW NANO-SCALE SYSTEMS AND DEVICES TO DELIVER BIOACTIVE AGENTS CAPABLE OF BEING TRANSPORTED ACROSS BIOLOGICAL BARRIERS WITH CLINICAL EFFICACY. THE EFFORT REQUIRES THE COLLABORATIVE TALENTS AND EXPERTISE OF SCIENTISTS AND ENGINEERS IN MANY DISCIPLINES.



CNCD CENTER *makes* GIANT COLLABORATIVE STRIDES *since* OPENING

With more than 26 members from five departments and spanning three campuses, the center has forged a solid and widely reaching base of scientific collaboration. Collaboration crosses the UMB campus, bringing together the schools of Pharmacy, Medicine, Law, and the Dental School, and includes scientists at the University of Maryland, College Park campus as well as the University of Maryland Biotechnology Institute (UMBI).

“One of our missions is to promote interaction between center members and beyond,” says Hamid Ghandehari, PhD, associate professor, Department of Pharmaceutical Sciences, and center director. “The goal of our research is to translate promising drug delivery systems to the clinic. To make that happen requires not only the focused efforts of individual researchers, but also the synergy that develops when scientists work together toward common goals.”

A major step toward becoming an international “player” in nanosystems research came in September 2005 when the center hosted the Third International Nanomedicine and Drug Delivery Symposium, an event that attracted researchers from around the world to discuss issues in nanomedicine and nano-scale drug delivery.

“Hosting that event earned us immediate international recognition,” says Ghandehari. “Nanomedicine is a very broad field; our focus on drug delivery created a great deal of interest.”

Grant awards during 2006 also bolstered research efforts as the center received six grants over a six-month period last year.

On Sept. 1, 2006, the center received a four-year, \$1 million grant from the National Science Foundation to study stimuli-responsive hybrid nanoparticles for controlled chemical delivery. On the same day, investigators at the A. James Clark School of Engineering and the NanoCenter at College Park received a Robert W. Deutsch Foundation grant for \$1 million to help build the next generation of biochips for drug discovery in collaboration with CNCD.

“Our collaborators at College Park – electrical engineers, bioengineers, and biosystems researchers – are working on immobilizing enzymes on polymeric scaffolds with the goal of microfabricating a biochip for drug discovery,” explains Ghandehari.

Another grant (\$1.2 million) from the National Institutes of Health in collaboration with cancer biologists and clinicians focuses on the design of novel polymeric delivery systems for tumor targeting.

At the end of November, CNCD members participated in the Greater Baltimore Committee Nanomedicine Symposium in Columbia, Md. Center members also have played a key role in formulating the goals of the Chesapeake Nanotechnology Initiative, which brings together nanotechnology interests from Maryland, Virginia, and the District of Columbia.

“Nanomedicine is now an important aspect of that initiative,” says Ghandehari.

The first Nano Research Day is scheduled for March 23 on the UMB campus with CNCD hosting the center’s collaborators for a daylong symposium.



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S E R V I C E



IN FEBRUARY 2006, *the* SCHOOL of PHARMACY, ALONG WITH THE MARYLAND PHARMACISTS ASSOCIATION, MARYLAND BOARD OF PHARMACY, MARYLAND GENERAL ASSEMBLY, MARYLAND MEDICAL ASSISTANCE, MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE, AND PHARMACISTS IN ALLEGANY COUNTY, MD., INITIATED A REVOLUTIONARY PATIENT-FOCUSED DIABETES SELF-MANAGEMENT PROGRAM CALLED THE MARYLAND P₃ PROGRAM (PATIENTS, PHARMACISTS, PARTNERSHIPS).

CLINICAL *service:* MARYLAND P₃ PROGRAM *sets* NEW MARK *for* DIABETES CARE

“The program is based on a model for patient self-management developed by the American Pharmacists Association and modeled after the successful program in Asheville, N.C.,” says Christine Lee, PharmD, Maryland P₃ Program coordinator. “Participating pharmacists provide diabetes education and management training to patients in an effort to save health care dollars, improve quality of life for people with diabetes, and reduce diabetes-related complications.”

Employees at participating workplaces and diabetes patients enrolled in Maryland Physicians Care (Maryland Medical Assistance) can meet one-on-one with specially trained pharmacists to better understand their disease. Topics such as medications, nutrition, and complications related to foot, skin, and eye care are discussed. The pharmacists are paid by the employers or Medicaid, both of which have an interest in helping the patients control and improve their health.

The program was spearheaded by state Delegate David Rudolph (D-Cecil 34B), chair of the Pharmaceuticals Subcommittee in the Maryland House of Delegates.

“This is a win-win program,” says Rudolph, who forged the partnerships that make Maryland P₃ possible.

Twenty-five Allegany County pharmacists are participating in the Maryland P₃ Program – each has completed the certificate-training program in diabetes sponsored by the School of Pharmacy. The training, based on the American Diabetes Association guidelines for diabetes treatment, covers patient education, clinical assessment, monitoring, follow-up, and referral. Pharmacists work closely with the patients’ physicians and other health care providers.

An estimated 5,000 Marylanders with diabetes call Allegany County home. Statewide, about 300,000 people have the disease. In 2004, there were 1,410 diabetes-related deaths in Maryland and close to 95,000 emergency room visits.

Free glucose monitors, diabetes supplies, and medications are offered as incentives for diabetes patients to participate in Maryland P₃. In time, the program will expand to other Maryland counties, Lee says. “There is also a plan to begin spreading a similar program to patients with other chronic diseases, such as asthma, hypertension, and depression,” he adds.



CLINICAL *service:* CARING for the PHARMACY NEEDS of our MOST VULNERABLE CITIZENS



A hallmark of the past year was receiving reaccreditation of MHP's psychiatric pharmacy practice residency program from the American Society of Health-System Pharmacists.

Twenty-four years ago, the School of Pharmacy established its Mental Health Program (MHP) with a mission to improve pharmacy care for some of Maryland's most vulnerable citizens – patients in state mental health facilities who need pharmacy services. Since 1983, the MHP has steadily grown from three to 44 staff members who now serve in six facilities.

“When we took over the program, pharmacists were involved in running storerooms and had very little clinical interaction with physicians, treatment teams, or patients,” recalls Raymond Love, PharmD, BCPP, FASHP, director of MHP, professor and vice chair in the Department of Pharmacy Practice and Science, and overseer of pharmacy services for the state's Mental Hygiene Administration (MHA). “Now, we offer a full continuum of pharmacy services, from using advanced technology in dispensing, to rounding with physicians and interacting with patients.”

Love says MHP maintains contracts with the state Department of Health and Mental Hygiene that totaled \$3.8 million in Fiscal Year 2006. The School of Pharmacy provides centralized administration of pharmacy services, and policy as well as formulary management. The School also provides the program with clinical pharmacists and participants in a residency program. The program plays a precepting role for students doing clinical rotations in the Experiential Learning Program.

Love says MHP's goal has been to maintain and improve pharmacy services as well as make certain that in the future there will be enough pharmacists to treat patients in state mental health facilities.

“That commitment means providing current and future pharmacists with an understanding of the needs of those with mental illness, and equipping them with the knowledge and tools to serve their patients,” says Love. “We accomplish that through the residency program and student rotations in mental health facilities. The psychiatric residency program is the oldest of the School's accredited residency programs.” Love also says a cost-effective formulary must be maintained to provide pharmacy services that are safe, on-site, and accessible.

“The past year saw some important changes,” he says. “Not only was Springfield Hospital Center added to our responsibilities, we also worked with MHA to deal with a flu vaccine shortage, offered a centralized plan for statewide on-call pharmacists, and reconciled the state's Medical Assistance preferred drug list with the MHA formulary.”

A hallmark of the past year was receiving reaccreditation of MHP's psychiatric pharmacy practice residency program from the American Society of Health-System Pharmacists.

Initiatives to further improve pharmacy services at mental health facilities are on the table. “We are working with MHA to introduce standard drug use and pharmacy policies across the facilities,” says Love. “This initiative would also include greater sharing of resources.”

COMMUNITY *service:* the MARYLAND POISON CENTER: EVERYONE'S RESOURCE

The year is 1972. The Vietnam War continues. President Richard Nixon visits China. Burglars break into the Watergate offices of the Democratic National Committee. Cal Ripken Jr. turns 12. The price of gasoline hits 39 cents per gallon. The newly opened Maryland Poison Center (MPC) at the University of Maryland School of Pharmacy fields 5,600 calls.

“Last year, we answered 68,334 calls,” says Bruce Anderson, PharmD, Maryland Poison Center director. “Of those calls, 35,487 were related to human poison exposures. Fortunately, 75 percent of those suspected poisonings were dealt with successfully by telephone, without the need for expensive ambulance, ER, or medical services. We also answered 30,768 calls requesting general information, and 2,079 calls on animal poison exposures.”

Since 1972, it has been the mission of the MPC to save lives and dollars by providing emergency triage and treatment information to Maryland's citizens and health care professionals. Serving 3.8 million Marylanders in Baltimore City and 21 counties via emergency phone lines staffed by Certified Specialists in Poison Information (CSPIs) 24 hours a day, every day, the MPC and its entire 35-year record of community service are not to be taken for granted.

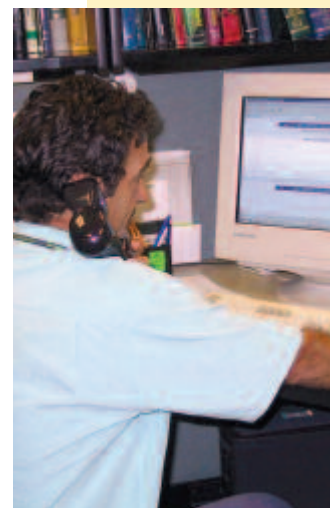
But in 2001, a new era began.

“We have changed along with the times,” he says. “In addition to providing expertise on suspected poisonings with household substances, drug overdoses, and spider bites, since Sept. 11, 2001, we have also stepped up to play a big role in homeland security.”

With new data-collecting software, MPC personnel track spikes in call volumes, review reported clusters of symptoms that might indicate an unusual event, and monitor 131 clinical effects that could indicate biological or chemical terrorist attacks in progress.

“Every six hours, we review cases with combinations of clinical effects that may suggest terrorist events involving a variety of agents, including anthrax, ricin, nerve agents, and blister agents,” explains Anderson.

Along with the new surveillance role, outreach and education continue to be priorities. Getting the word out about poisoning dangers is a full-time job, but a recent media effort has paid off.



Since 1972, it has been the mission of the MPC to save lives and dollars by providing emergency triage and treatment information to Maryland's citizens and health care professionals.

Since 2006, Baltimore television station WBAL has given the MPC live airtime on Sunday mornings. For host Angel Bivens, RPh, CSPI, the MPC's public education coordinator, the opportunity to reach the public is a "great breakthrough."

"I've done shows on Halloween safety, look-alike medications, hidden dangers in cleaning products, and hazardous outdoor plants," says Bivens. "The added exposure also means that when there is a public emergency, local reporters and TV are more likely to call us. They know who we are and what we do."

In 2002, the nation's 61 poison centers became united with a single 800-phone number (1-800-222-1222) that routes calls to the closest poison center. Getting the word out about the 800 number is a continuing task, along with making prevention materials available, such as stickers, refrigerator magnets, and brochures.

Communicating with health care professionals is the responsibility of MPC's Lisa Booze, PharmD, CSPI.

"Last year, we presented 59 programs at hospitals, fire departments, colleges, and state and regional conferences," says Booze. "Over 2,000 physicians, nurses, EMS providers, pharmacists, and other health professionals attended."

MPC's publications, ToxTidbits and ToxAlert, can be found on www.mdpoison.com under "publications."

"The publications have been very successful," says Bivens. "We fax them to every ER in Maryland and e-mail them to over 3,000 health care professionals."

But while saving lives and money throughout the state, the MPC finds itself cornered by an increasing shortage of its own funds, says Anderson.

"We are looking at a projected funding shortfall of \$832,004 for Fiscal Year 2008," says Anderson, adding that an additional \$792,860 is needed to help meet the increased activity and staff demands for homeland defense surveillance.

Supporting MPC is a cost-effective way to help state residents, Anderson says. "Every dollar invested in poison centers saves at least \$6 in health care costs, so investing in the MPC is an investment in the health and welfare of all Marylanders," concludes Anderson.



the UNIVERSITY of MARYLAND SCHOOL of PHARMACY
KEY FACTS



ACADEMIC *programs*

PharmD Program

489	Total enrollment
1,652	Applicant pool
129	Entering class
65%	With baccalaureate
60/40%	Female/male
19-40	Age range
24	Average age
57%	Caucasian
18%	Asian
13%	International
9%	African-American
3%	Hispanic

PhD Programs

99	Total enrollment
26	Department of Pharmaceutical Health Services Research 14/12 Female/Male
73	Department of Pharmaceutical Sciences 37/36 Female/Male

Academic Training

33	Postdoctoral fellows
7	Residents

FACULTY

62	Full-time faculty
75	Adjunct faculty
504	Preceptor faculty
3	Part-time and visiting faculty

STAFF

70	Administrative, facilities, recruitment, and special support
61	Technical and research staff

SCHOLARLY *activity*

105	Principal investigators
12	Published books
245	Refereed works published
50	Non-refereed works published
262	Papers presented

PROFESSIONAL *services*

64	Review panels
679	Manuscripts read/reviewed
58	Editors/Associate editors
45	Office holders
295	Departmental committees
823	Total days in public service

GRANTS *and* AWARDS

Department of PHARMACEUTICAL SCIENCES

Project Investigator	Rank/Title	Project Title	Sponsor Name	Project Total
Larry Augsburger	Ralph Shangraw Chair	Evaluation of Lactose for Encapsulation	DMV International	\$43,563.00
Mark Borgman	Graduate Student	Novartis Summer Internship	Novartis Pharmaceuticals	\$16,500.00
Andrew Coop	Associate Professor	Reversing the Toxic Effects of Drugs of Abuse	National Institute on Drug Abuse	\$101,323.00
Andrew Coop	Associate Professor	Synthesis of Neurogenic Agents	Neuronascent, Inc.	\$11,441.00
Andrew Coop	Associate Professor	Spacer and Nebulizer Development	Respironics, Inc.	\$70,445.00
Natalie Eddington	Professor	Benztropine Analogs, Cocaine Abuse Pharmacotherapies	National Institute on Drug Abuse	\$217,515.00
Natalie Eddington	Professor	Delivery of Therapeutic Agents by Modulating Tight Junctions with Zot	National Institute of Biomedical Imaging and Bioengineering	\$252,450.00
Hamid Ghandehari	Associate Professor	Engineering Polymers for Gene Therapy of Head and Neck Cancer	National Cancer Institute	\$286,396.00
Hamid Ghandehari	Associate Professor	Recombinant Polymers for Systemic Cancer Gene Therapy	National Cancer Institute	\$141,075.00
Stephen Hoag	Associate Professor	Preformulation and Stability Testing of Botanical Products	GloboAsia, LLC	\$104,528.00
Kelly Kitchens	Graduate Student	Transepithelial Transport of Poly Amidoamine Dendrimers	National Institute of General Medical Sciences	\$29,240.00
Yuan Luo	Associate Professor	In Vivo Studies of Ginkgo Biloba Neuroprotection	National Center for Complementary and Alternative Medicine	\$194,758.00
Alexander MacKerell	Professor	Carbohydrate Force Field for Molecular Research	National Institute of General Medical Sciences	\$266,395.00
Alexander MacKerell	Professor	Energetics of Oligonucleotide Conformational Heterogeneity	National Institute of General Medical Sciences	\$212,894.00
Matthew Metcalf	Graduate Student	Short Duration Kappa Opioid Antagonists	National Institute on Drug Abuse	\$26,522.00
James Polli	Associate Professor	Development of Biorelevant In Vitro Dissolution/Permeation Systems for Predicting In Vivo Performance of Solid Oral Dosage Forms	Astra-Zeneca	\$50,000.00
James Polli	Associate Professor	Excipient Effect on Lipid Membrane	MGI PHARMA, Inc.	\$30,418.00
James Polli	Associate Professor	Substrate Requirements of the Bile Acid Transporter	National Institute of Diabetes and Digestive and Kidney Diseases	\$279,180.00
Gerald Rosen	Isaac E. Emerson Professor	Very Low Frequency EPR Imaging In Vivo Physiology	University of Chicago	\$202,750.00
Paul Shapiro	Associate Professor	Phospholipid Enhanced Pulmonary Drug Delivery – The Surfactant Chaser	Maryland Industrial Partnerships	\$57,528.00
Paul Shapiro	Associate Professor	Substrate Specific ERK Docking Domain Inhibitors	National Cancer Institute	\$210,870.00
Christina Sliver	Graduate Student	Dopamine and Psychostimulant Regulation of Neurotrophin Signaling	National Institute on Drug Abuse	\$41,792.00
Peter Swaan	Associate Professor	High-throughput Assay for the Intestinal Peptide Transporter	National Institute of Diabetes and Digestive and Kidney Disease	\$74,250.00

Peter Swaan	Associate Professor	Isolation of Paracrine Factor	Perinet, Inc.	\$20,000.00
Peter Swaan	Associate Professor	Porous Silicon Particles for Oral Drug Delivery	National Institute of Biomedical Imaging and Bioengineering	\$251,377.00
Peter Swaan	Associate Professor	Structural Biology of the Apical Bile Acid Transporter	National Institute of Diabetes and Digestive and Kidney Diseases	\$238,541.00
Ashiwel Undie	Associate Professor	Signaling Mechanisms in Dopamine Receptor Synergism	National Institute on Drug Abuse	\$301,676.00
Jia Bei Wang	Associate Professor	MOR Phosphorylation in Opioid Tolerance and Dependence	National Institute on Drug Abuse	\$290,021.00
Jia Bei Wang	Associate Professor	MOR Phosphorylation in Opioid Tolerance and Dependence	National Institute on Drug Abuse	\$117,089.00
Angela Wilks	Associate Professor	Heme Oxygenase: Structure, Function and Pathogenesis	National Institute on Drug Abuse	\$253,769.00
Stacey Williams	Graduate Student	Signaling Pathways in the Neurobehavioral Actions of Psychostimulant Agents	National Institute on Drug Abuse	\$41,347.00
Bahar Zarabi	Graduate Student	Magnetic Resonance Imaging of Polymeric Drug Delivery Systems in Breast Cancer Solid Tumors	United States Army	\$30,437.00
Department Total				\$4,466,090.00

Department of PHARMACEUTICAL HEALTH SERVICES RESEARCH

Project Investigator	Rank/Title	Project Title	Sponsor Name	Project Total
Christopher Blanchette	Graduate Student	Prevalence and Outcomes of Depression Following Acute Myocardial Infarction in Elderly	National Institute of Mental Health	\$31,488.00
Danielle Chauncey	Graduate Student	Assessing Anticoagulation Therapy Management Services	Agency for Healthcare Research and Quality	\$500.00
Danielle Chauncey	Graduate Student	Assessing Anticoagulation Therapy Management Services	Agency for Healthcare Research and Quality	\$51,562.00
Donald Fedder	Professor	ENABLE Community Health Worker and Baltimore Health Care Access	Baltimore Health Care Access, Inc	\$26,500.00
Donald Fedder	Professor	ENABLE Tobacco Cessation Grant	Maryland Department of Health and Mental Hygiene	\$42,000.00
Donald Fedder	Professor	ENABLE Community Health Worker Program	Baker Foundation	\$8,000.00
Robert LoCasale	Graduate Student	Trends and Implications of Polypharmacy: A case study	National Institute of Mental Health	\$27,750.00
C. Daniel Mullins	Professor	Cost Per Successfully Treated Patient Estimates for Medicaid Patients	Pfizer Pharmaceuticals	\$45,578.00
C. Daniel Mullins	Professor	Cost-Effectiveness Analysis of Student Versus Interferon – as First Line Treatment for mRCC	Pfizer Pharmaceuticals	\$60,000.00
C. Daniel Mullins	Professor	Injectables Expenditure Variations Place of Service Analysis	Serono, Inc.	\$60,000.00
C. Daniel Mullins	Professor	Formulary Fellowship Program	Pfizer Pharmaceuticals	\$22,105.00
C. Daniel Mullins	Professor	Health Outcomes Fellowship	Pharmaceutical Research and Manufacturers of America Foundation	\$40,000.00

C. Daniel Mullins	Professor	Women's Health NSAID and CV Risk Fellowship	Pfizer Pharmaceuticals	\$42,857.00
C. Daniel Mullins	Professor	Specialty Injectables Benchmarking Study – Part 2	Blue Cross Blue Shield Foundation	\$4,000.00
Francis Palumbo	Professor	A Feasibility Study to Document Counterfeit Drug Episodes	Pfizer Pharmaceuticals	\$23,450.00
Francoise Pradel	Associate Professor	Early Educational Program to Increase Live Kidney Donation	University of Maryland Surgical Associates	\$105,107.00
Fadia Shaya	Associate Professor	Novartis Formulary Fellowship	Novartis Pharmaceuticals	\$73,381.00
Linda Simoni-Wastila	Associate Professor	Creation of 2002, 2003 Institutional Drug Administration File and Prescription Medication Event	Westat, Inc.	\$93,700.00
Linda Simoni-Wastila	Associate Professor	Prescription Drug Abuse in Adolescents and Young Adults	National Institute on Drug Abuse	\$185,625.00
Linda Simoni-Wastila	Associate Professor	Prescription Drug Spending by Institutionalized Medicare Beneficiaries, 1998-2001	Maryland Department of Health and Human Services	\$148,610.00
Linda Simoni-Wastila	Associate Professor	Prescription Drug Spending for Behavioral Health: Impact of the Medicare Modernization Act	Thomson Medstat	\$84,691.00
Linda Simoni-Wastila	Associate Professor	Quality and Outcomes of Antipsychotic Administration in Long-Term Care Facilities	Center for Medicare and Medicaid Services	\$88,999.00
Bruce Stuart	Parke-Davis Chair of Geriatric Pharmacotherapy	Benchmarking the Quality of Medication Use by Medicare Beneficiaries	Commonwealth Fund	\$175,603.00
Bruce Stuart	Parke-Davis Chair of Geriatric Pharmacotherapy	Chartbook on Medication Use by Aged and Disabled Medicare Beneficiaries Across Spectrum of Morbidity	Commonwealth Fund	\$47,141.00
Bruce Stuart	Parke-Davis Chair of Geriatric Pharmacotherapy	Use of Medications in Persons with Diabetes – MRAD – University of Minnesota	University of Minnesota	\$10,000.00
Anthony Tommasello	Associate Professor	CONNECT: HOPWA Project for Medically Fragile HIV+ Homeless Persons	Health Care for the Homeless, Inc.	\$16,662.00
Anthony Tommasello	Associate Professor	Educational Program for Howard County Middle and High School Students and Their Parents	Howard County Government	\$10,000.00
Anthony Tommasello	Associate Professor	Program to Prevent Substance Abuse in the Older Population in Howard County	Howard County Government	\$20,000.00
Sheila Weiss	Associate Professor	Review of Article "Assessing the Population Impact: Burden of Cancer"	National Cancer Institute	\$20,000.00
Sheila Weiss	Associate Professor	A Critical Evaluation of Data Mining	Pharmaceutical Research and Manufacturers of America Foundation	\$515,540.00
Julie Zito	Associate Professor	Frequency of Medication Usage in Pediatric Population: A Comprehensive Data Analysis and Report	Westat, Inc.	\$149,085.00
Julie Zito	Associate Professor	Frequency of Medication Usage in Pediatric Population: A Comprehensive Data Analysis and Report	Westat, Inc.	\$581,064.00
Ilene Zuckerman	Associate Professor	Predicting Transitions Among Community-Dwelling Elders	National Institute on Aging	\$129,330.00
Department Total				\$2,940,328.00

Department of PHARMACY PRACTICE *and* SCIENCE

Project Investigator	Rank/Title	Project Title	Sponsor Name	Project Total
Bruce Anderson	Associate Professor	Avon Products Amendment	Avon Co.	\$17,009.00
Bruce Anderson	Associate Professor	Combe Agreement Provide Medical Information	Combe, Inc.	\$20,008.00
Bruce Anderson	Associate Professor	Maryland Poison Center – Monitoring for Terrorism/Public Health Threat	Maryland Department of Health and Mental Hygiene	\$50,000.00
Bruce Anderson	Associate Professor	Maryland Poison Center - Service Contract - Medicaid	Maryland Department of Health and Mental Hygiene	\$194,945.00
Bruce Anderson	Associate Professor	Maryland Poison Center - Poison Center Stabilization	Maryland Health Resources and Services Administration	\$227,071.00
Bruce Anderson	Associate Professor	Surveillance of the RADARS by Poison Control Centers: A Pilot Study	Denver Health and Hospital Authority	\$17,256.00
Kenneth Bauer	Assistant Professor	Assessment of Cellular GTP, dGTP and XMP levels	Avalon Pharmaceuticals	\$15,330.00
Rachel Bongiorno	Assistant Professor	ASHP Therapeutic Guideline on Antimicrobial Prophylaxis	American Society of Health-System Pharmacists	\$12,001.00
Nicole Brandt	Associate Professor	Baltimore County Department of Aging - Screening Programs	Baltimore County Department on Aging	\$2,850.00
Nicole Brandt	Associate Professor	Burdick: Interdisciplinary Health Promotion Education Center	Western Maryland Area Health Education Center	\$8,000.00
Nicole Brandt	Associate Professor	Intergovernmental Personnel Assignment Survey and Certification	Maryland Department of Human Health Services	\$65,479.00
Nicole Brandt	Associate Professor	Baltimore City CARE	Baltimore City Department on Aging	\$47,507.00
Thomas Dowling	Associate Professor	Core Lab for Analysis of Iothalamate/PAH in Clinical Trial	National Cancer Institute	\$151,343.00
Thomas Dowling	Associate Professor	Evaluation of Diabetic Nephropathy in Hispanic Americans	American College of Clinical Pharmacy	\$15,277.00
Stuart Haines	Professor	Diabetes Patient Care Traineeship	American Society of Health-System Pharmacists Foundation	\$4,500.00
Cherokee Layson-Wolf	Assistant Professor	Community Pharmacy Residency Program	Happy Harry's Pharmacy	\$59,941.00
Cherokee Layson-Wolf	Assistant Professor	Pharmaceutical Care Community Pharmacy	NeighborCare Pharmacies	\$69,842.00
Cherokee Layson-Wolf	Assistant Professor	Funding for Heel Ultrasound Device Rental	Upsher-Smith Laboratories, Inc.	\$450.00
Raymond Love	Professor	Eastern Shore and Upper Shore - Pharmacy Services	Maryland Department of Health and Mental Hygiene	\$348,621.00
Raymond Love	Professor	Clifton T. Perkins - Pharmacy Services	Maryland Department of Health and Mental Hygiene	\$357,863.00
Raymond Love	Professor	Spring Grove Hospital - Pharmacy Services	Maryland Department of Health and Mental Hygiene	\$1,113,866.00
Raymond Love	Professor	Centralized Administration of Pharmacy Project	Maryland Department of Health and Mental Hygiene	\$349,259.00
Raymond Love	Professor	Walter P. Carter Center - Pharmacy Services	Maryland Department of Health and Mental Hygiene	\$410,196.00
Raymond Love	Professor	Springfield Hospital Center - Pharmacy Services	Maryland Department of Health and Mental Hygiene	\$1,071,666.00
Mary McPherson	Professor	Palliative Care Pharmacy Residency Program	excelleRx, Inc.	\$48,933.00
Jason Noel	Assistant Professor	Enhancement of Pharmacy Services: Rosewood Center	Maryland Department of Health and Mental Hygiene	\$137,924.00

Magaly Rodriguez de Bittner	Professor	Community Pharmacy Practice Residency	Joppa Road Pharmacy	\$32,250.00
Magaly Rodriguez de Bittner	Professor	Maryland Therapy Management Program Evaluation Study	Maryland Department of Health and Mental Hygiene – Board of Pharmacy	\$20,000.00
Gary Smith	Professor	CareFirst Residency Program	Blue Cross Blue Shield	\$16,148.00
Gary Smith	Professor	Pediatrics Pharmacy Practice Residency	University of Maryland Medical System	\$21,784.00
James Trovato	Associate Professor	Oncology Pharmacy Practice Residency	University of Maryland Medical System	\$21,784.00
Department Total				\$4,929,103.00

The DEAN'S Office

Project Investigator	Rank/Title	Project Title	Sponsor Name	Project Total
David Knapp	Professor	Infrastructure Improvements to Support Pharmacy Education	Maryland Health Resources and Services Administration	\$245,516.00
Total				\$245,516.00

The TOTALS

Department s	Totals
Department of Pharmaceutical Sciences	\$4,466,090.00
Department of Pharmaceutical Health Services Research	\$2,940,328.00
Department of Pharmacy Practices and Science	\$4,929,103.00
Dean's Office	\$245,516.00
School Total	\$12,581,037.00

FINANCIALS FY2006

SOURCES of OPERATING REVENUES *supporting the* SCHOOL

Sources	Restricted	Unrestricted	2006 Total	2005 Total
State General Fund Appropriation		\$4,697,096	\$4,697,096	\$4,200,536
Less Campus Program Transfer		(\$839,949)	(\$839,949)	(\$388,024)
Net General Appropriation		\$3,857,147	\$3,857,147	\$3,812,512
Tuition & Fees		\$8,115,592	\$8,115,592	\$7,572,683
Federal Funds		\$346,934	\$346,934	\$328,388
Other		\$0	\$0	\$18,546
Campus-Funded Fringe Benefits		\$2,511,934	\$2,511,934	\$2,155,705
Scholarship/Fellowship Revenues	\$571,950		\$571,950	\$403,000
Designated Research Initiative Funds	\$512,659		\$512,659	\$451,465
Contract & Grant Awards	\$12,581,037		\$12,581,037	\$14,306,303
Endowment Income	\$634,632		\$634,632	\$597,778
Gifts	\$1,673,204	\$186,743	\$1,859,947	\$3,040,885
Auxiliary & Miscellaneous	\$789,986	\$1,951,118	\$2,741,104	\$1,749,042
Eliminations (#1)	(\$756,764)		(\$756,764)	(\$938,334)
Total Sources - Basic Operations	\$16,006,704	\$16,969,468	\$32,976,172	\$33,497,973
Campus-Funded Facilities Management, Administration, Student Services & Institutional Costs			\$8,089,003	\$7,697,456
Total Sources of Funds Supporting the School			\$41,065,175	\$41,195,429

#1 – Eliminations - Research gifts are reported under contract and grant awards and as gifts by the campus.

#2 – This report is an unaudited presentation of revenues supporting the School.

DEVELOPMENT

Annual Fund

Every year, students, alumni, faculty, and community members renew their support of the School of Pharmacy by investing in the Annual Fund. Their individual gifts form a pool of unrestricted funds that may be applied strategically, wherever need and opportunity are greatest. The Annual Fund plays a vital role in ensuring the strength of all School of Pharmacy programs by supporting student scholarships and internships, faculty research projects, capital projects and improvements, acquisition of new technologies, and community service programs that advance the School's academic mission.

Making an annual gift is a meaningful way to contribute to the School. Loyal donors provide the School's foundation for success – repeated annual giving provides a reliable resource for the School and long-term financial security.

Stephen B. Bierer, BSP, Class of 1972, has had more than one career, but pharmacy is truly his niche. "The School of Pharmacy taught me how to provide comprehensive, quality care to each of my patients," Bierer says. "I thoroughly enjoy the role I am able to play for my patients as they navigate an increasingly complex health care system. Every day I am reminded that the quality of life that I enjoy both personally and professionally, I owe to our great School. It is my honor and pleasure to give back." And Bierer has been doing just that – for more than 20 years.

Abigail Strawberry, BSP, Class of 1993, has been giving to the School of Pharmacy for 12 consecutive years. "I give first and foremost because I am proud to be an alumna," says Strawberry. "The School has given me a top-rated education in a profession that is in high demand. It is an honor to be a "Maryland Brand Pharmacist" and to give back to a worthy institution through its annual fund."

David Stewart Associates

In the mid-1980s, the School established our premier giving society, David Stewart Associates (DSA), named after America's first professor of pharmacy of the School of Pharmacy, and the School's first chair. Through individual gifts and pledges of \$1,000 or more, this core leadership of donors has created a solid base of private support for the School's efforts to advance pharmaceutical education and science. To join this prestigious group of alumni and friends, or for information on giving to the School, please contact Kelly Priest, director of development for special gifts and programs, at 410-706-1711.

Legacy Council

In our continued efforts to recognize donors, the Legacy Council of the University of Maryland, Baltimore has been established to acknowledge those who have made generous contributions to the School of Pharmacy through their estate plans. Clayton L. Warrington, BSP '58, has been invited to serve as spokesman for the School.

Anyone who has made such a gift is eligible for membership in the Legacy Council by providing documentation to the Office of Development (www.umaryland.edu/plannedgiving) or by providing a copy of the document in which the School is named as a beneficiary. For more information about membership in the Legacy Council and estate planning, please contact Michele Ewing, executive director of development and alumni relations, at 410-706-3816.

Corporate Partners in Pharmacy Education

The Corporate Partners in Pharmacy Education Program was designed to consolidate the School's corporate donors into an educational advisory group, focus their giving, and provide prominent recognition for their support. Contributions to this program support various events at the School – the White Coat Ceremony, Career Fair, leadership retreat and graduation banquet – and provide much-needed support for student scholarships.

The School of Pharmacy recognizes and thanks the following Corporate Partners in Pharmacy Education for their continued commitment and support:

Titanium Level: CVS/pharmacy
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We have made every effort to provide a complete and accurate listing of donors and gifts. If we have made an error or omission, please accept our sincere apology and contact Emily Lovald at 410-706-5893 or at elovald@rx.umaryland.edu so that we may correct our records.

the UNIVERSITY of MARYLAND SCHOOL of PHARMACY

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