Providing an Environment for Success and Accomplishments

ANNUAL REPORT 2008-09







Message from the Dean

Productivity, Accomplishments and Priorities

The productivity and accomplishments of the SoPPS have been outstanding. Through challenging economic and budgetary times, our faculty continued to secure substantial external funding to enhance the school's multifaceted research areas in both the pharmaceutical sciences and pharmacy practice. These research and programmatic dollars have allowed the school to continue its long tradition of engaging the brightest postgraduate and postdoctoral trainees in our laboratories and practice areas, thus continuing to bring to the community innovative scientists and practitioners.

These successes are further strengthened and supported by the philanthropy of our donors, alumni and friends. These partners are the backbone of the school and allow us to continually enrich and expand all areas of our teaching, research and service.

Our faculty and students continue to receive recognition for their academic and scholarly activities; we are very proud of their great successes. Some of these many accomplishments include Bill Jusko's promotion to SUNY Distinguished Professor, the highest faculty ranking in the SUNY system, and the awarding of SUNY Chancellor's Awards for Excellence to two faculty members: Gayle Brazeau, who received the Faculty Service award, and Bob Straubinger, who received the Scholarship and Creative Activities award. In addition, Don Mager was elected a Fellow of the American College of Clinical Pharmacology.

Our students also received high recognition for their outstanding accomplishments. Three PharmD students were elected as officers of the Student Pharmacists Association of New York State: Chris Daly, president; Danielle Joset, president-elect; and Keith Rowe, past president and current vice president. Gauri Rao, Class of 2011, was selected as one of five participants in the 2009 APhA One to One Patient Counseling Recognition Program. Our pharmaceutical sciences students placed in the top three at the 41st Annual Pharmaceutics Graduate Student Research Meeting: Dhaval Shah was awarded first-

place honors, with Sihem Ait-Oudhia securing third place.

As we continue to work with the campus leadership to strategize and prioritize our mission to enhance efficiencies, I am continually amazed at the creativity and productivity of our faculty, staff and students. These individuals have continually surpassed expectations, allowing the school to continue to move forward as one of the top-ranked pharmacy schools in the country.

With warm regards,

evagne St. Cinderson

Wayne K. Anderson, professor and dean

OUR MISSION STATEMENT

The mission of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences is to educate students in pharmacy practice and the pharmaceutical sciences, to create and disseminate knowledge in pharmacy practice and the pharmaceutical sciences, to provide patient care, and to provide services to the community-at-large based on this knowledge. This mission is to be achieved consistent with the highest ethical standards and with respect for diversity and cultural sensitivity.

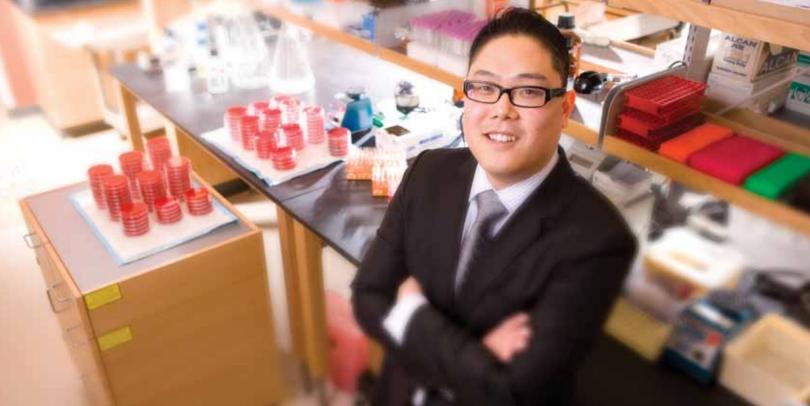
The mission recognizes pharmaceutical care as a mode of pharmacy practice within the health care team in which the patient is empowered "to achieve the desired outcomes of drug and related therapy."

The mission also recognizes that research in the broad area of the clinical sciences, the pharmaceutical sciences, and education is necessary to create and maintain a body of knowledge needed for professional education, health care delivery and the advancement of science. In this context, our goal is to enhance the School of Pharmacy and Pharmaceutical Sciences so that it will continue to be one of the strong components of the University at Buffalo and the State University of New York system. This will involve a focus on those areas of unique strength within the school and those areas that form unique, interdisciplinary bridges within the university.

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Bench to Bedside, Bedside to Bench

One Dose Doesn't Fit All: Evaluating the Magic Bullet

By Jessica Thorpe, Outside the Box Communication

Donald Mager and Brian Tsuji, UB SoPPS assistant professors of pharmaceutical sciences and pharmacy practice, respectively, agree: The time of the "magic bullet" is most likely over.

That doesn't mean there isn't new knowledge at bedside and bench waiting to be discovered—particularly as it relates to novel and individualized pharmacotherapy.

"We're beyond the days, I think, where we're going to develop the single drug for a single target that is going to knock out that target with a single dosing regimen for all individuals and achieve the outcome we wish to achieve," says Mager, whose bench work has carved major PK/PD modeling inroads into the optimization of drug therapy for cancers and metabolic diseases.

t the bedside, Tsuji is on the front lines. "We're losing the arms race in the fight against resistant 'superbugs' and are investigating novel ways where we can optimize the activity of antibiotics," he says of his clinical research in infectious disease, warning of the growing global threat from antibiotic-resistant pathogens.

In Hochstetter Hall, Mager approaches his laboratory research with the unique perspective of a former practicing pharmacist. "I actually earned my bachelor's degree in pharmacy, when you could get such a thing," he laughs.

Originally from Albion, N.Y., Mager worked as a community pharmacist before returning to UB to earn both a PharmD degree (2000) and PhD (2002) in pharmaceutical sciences. After completing a postdoctoral fellowship at the National Institute on Aging, he joined the UB SoPPS faculty in 2004.

The six years he spent as a staff and supervising pharmacist with the former Fay's Drugs was a special time in his life, he says. "To be able to explain difficult concepts to the layperson, to actually translate science that would be meaningful to individuals, to me was really gratifying," he says.

But he had gotten a good taste of research during an undergraduate rotation, investigating the relative efficiency of acetylcholinesterase isoforms and conducting functional assays for tacrine, the first FDA-approved drug for the treatment of Alzheimer's. "It was a glorious experience," he says of defining a hypothesis and working with faculty member Harvey Berman and members of

his lab to test that hypothesis. "The career lifestyle of academic research was really quite appealing to me."

After being accepted into the PharmD program, Mager landed a coveted graduate research slot with William J. Jusko, SUNY Distinguished Professor and chair of the Department of Pharmaceutical Sciences, looking at corticosteroids and interferon beta as model compounds that modulate the immune system. The effects of both drugs take time to develop because they cause changes in the expression of certain proteins and enzymes.

"The complexity between the exposure and the outcome of the drugs led to theoretical concepts that could be broadly applied to many compounds," Mager explains. In 2001, he published his first two papers, describing the mathematics of time-dependent and target-mediated systems. "The modeling suggested that the drug binding to the target receptor influenced the time the drug spends in the body and also the effects that it elicits. Since then, there have been many drugs identified to elicit the same behavior. And the real expansion comes from monoclonal antibodies and proteins."

is research remains focused on this principle of target-mediated drug disposition, a concept brought to light in 1994 by Gerhard Levy, SUNY Distinguished Professor Emeritus in SoPPS.

Mager now travels the world giving lectures on novel interpretations of the concept.

"Drugs always bind to a target to cause their response. But it's relatively new knowledge that that interaction influences how the body processes the drug," he says. "For select new drugs, binding to the target receptor influences the observed time course of the concentrations. This is what is unique."

Mager's current lab work, carried out with a team of four post-doctoral fellows, six PhD students, four master's students and one technician, is focused on anti-cancer and immunomodulatory drugs—drugs that alter the immune system response—with an eye still fixed on interferon beta, a drug used to treat multiple sclerosis.

"The thing we're really excited about right now in this field is the use of mechanism-based pharmacodynamic models," Mager says.

"We want to understand how physiology and drug properties together influence the time course of exposure and response. How do diseases, patient genetics, the environment (like diet and smoking), concomitant medications and other factors influence what we observe? The modeling allows us to bring all of these facts together into one cohesive unit to better understand what is influencing what we observe in terms of drug exposure-response and clinical outcomes," he says. "We're trying to understand how to optimize therapy in the presence of complex systems. We hope to eventually be able to personalize pharmacotherapy by appreciation for how the system is working."

Mager says modestly that his research—which is funded through NIH co-investigator grants, the UB-Pfizer Strategic Alliance, the UB Center for Protein Therapeutics and company-based sponsors—is in its "early days." This is true in general for PK/PD research as it relates to combination drug therapy, acknowledged as the wave of the future. But one of Mager's postdoctoral fellows, John Harrold, has developed an innovative mechanism-based pharmacodynamic model that predicts synergy for the anti-cancer drug rituximab in combination with other therapies.

"It's hard enough to optimize one drug. How does one optimize treatment with multiple drugs, each with its own mecha-

nism, and then interactions between mechanisms?" Mager asks. "What was exciting in this very preliminary mouse study is that we were able to take information from single drugs and actually predict the observed synergistic response—two drug combinations were actually more beneficial than just their additive sum effects."

From the clinical research perspective, Tsuji is looking at the potential of combination drug therapies that can be useful at the bedside and eradicate highly resistant pathogens, including staphylococcus areus and pseudomonas aeruginosa. "Some strains have mutated to develop resistance to nearly all commercially available antibiotics. Our research on these two critically important pathogens focuses on using PK/PD, bacterial genetics and patient specific factors to optimize outcome," he says.

Tsuji says that his research, funded through NIH co-investigator grants, Upstate New York Consortium for Healthcare Research and Quality Foundation grants, the UB-Pfizer Strategic Alliance and company-based sponsors, is just starting to take off. "It is so exciting to work in a team of PharmD and PhD students, undergraduates, research scientists and PharmD and PhD post-doctoral fellows who are so truly motivated to research antibiotics in infectious diseases. It is because of all of their hard work, not mine, that we as a team have been able to do what we do. They deserve all of the credit for our research."

Part of his research team is looking at ways to preserve the usefulness of the drugs vancomycin and colistin. Both drugs have been in existence for more than 30 years and have been the last line of defense in the treatment of resistant gramnegative and gram-positive infections. These antibiotics recently have come under the gun because of potential issues of resistance and poor patient outcomes.

"At the bedside, we really don't have strong evidence, both clinically and experimentally, of how to optimally use these drugs, although they have been around for decades. One area of research by Samira Merali (PharmD postdoctoral fellow), Dung Ngo (PharmD student) and Neang Ly (PhD student) looks at vancomycin and colistin in combination with a plethora of other antibiotics."

Tsuji earned his BS in pharmaceutical sciences in 2001 and PharmD in 2003 from Wayne State University in Detroit. After working as a clinical pharmacist at Detroit Receiving Hospital, he completed a postdoctoral fellowship at the Detroit Medical Center and Wayne State University, after which he joined the UB SoPPS faculty in 2005.

"As a student, clinical pharmacist and fellow, I was so intrigued by antibiotics and infectious diseases because of the huge impact that pharmacists could make on a medical team to improve the outcomes of patients. My early passion for antibiotics was driven by the fact that we could not clearly answer a number of clinical questions on medical rounds, which is why I chose to investigate some of them in a research setting," he says, adding that these include pharmacy-related questions about the right antibiotic, the right dosage and the right duration.

Tsuji, like Mager, relies on basic PK/PD principles and modeling, in collaboration with faculty members Alan Forrest and Jurgen Bulitta, to carry out his investigations. He and his research team of postdoctoral fellows, PharmD and PhD students, technicians and undergraduates utilize new experimental techniques that mimic human pharmacokinetics in a test tube to study human conditions and severity of a bacterial infection.

"We use novel in vitro pharmacodynamic hollow fiber models to determine the most optimal way to administer antibiotics to prevent resistance," Tsuji explains. "One of our most recent papers was titled 'Implications for dosing in pneumonia,' so we

try to attack clinically relevant issues that can be brought back to the bedside."

Toward this scientific end, his research seeks to understand heterogeneous resistance for vancomycin and colsitin among "flip-flopping" phenotypes—bacteria that actually adapt and mutate in the face of drug therapy. "It's similar to the tip of an iceberg, where everything appears normal on the surface. However, after suboptimal drug therapy, the whole population of bacteria can mutate and become resistant, which presents a serious problem," Tsuji says. "These bacteria have been called 'Jekyll-and-Hyde' organisms because they show different faces and change depending on their environment—from the non-threatening staph in your nose to causing very severe infections, such as bacterial endocarditis or necrotizing pneumonia."

Working both in Cooke Hall and at UB's New York State Center of Excellence in Bioinformatics and Life Sciences on the Downtown Campus, Tsuji also looks at bacterial genetics to find ways to more effectively treat patients.

The general theme for both bacterial pathogens he is working on is that they can adapt to drugs and to their environment by communicating with each other. Consequently, Tsuji is investigating the role of bacterial quorum sensing in the development of drug resistance and how it also may contribute to severity of infection. At least one of the quorum-sensing genes that relate to bacterial crosstalk causes resistance in vancomycin, the former "magic bullet" drug for treating staph infections, he says.

"If we could potentially use drugs that target these genes, we can be very aggressive at individualizing therapy to use single or combinations of drugs differently."

Tsuji collaborates with six different hospitals—from Albany to Rochester to Buffalo—to determine the prevalence of vancomycin-resistant phenotypes and what can be done to treat these infections. Like Mager, he shares his research in national and international lectures to fellow scientists and scholars.

The buzzword these days is individualized or personalized medicine, both Mager and Tsuji say. "If we have a model that we think explains how the system is functioning, then we can look for patient covariates, individual characteristics that explain why one individual is responding differently than another individual. And I think a model-based approach will really provide the best path for the individualization of therapy," Mager says. Tsuji smiles when hearing of Mager's comments, agreeing, "It is true: One dose doesn't fit all."



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Education

The SoPPS educates students in pharmacy and the pharmaceutical sciences, providing them with the critical thinking skills to allow them to achieve the desired outcomes of drug-related therapy and disease management through research and clinical intervention.

Admissions

The Office of Admissions and Advisement strives to improve and enhance our processes from year to year. In 2008-09, we expanded our in-person interview sessions to include a longer interview, a detailed discussion on residencies and fellowships, and a patient-care-oriented group activity led by our Dean's Student Ambassadors. Our Dean's Alumni Ambassadors participated as volunteer recruiters by attending graduate school recruitment fairs across the country. These initiatives, with many others, continue to have a positive impact on the quality of our talented and diverse applicant pool, ultimately allowing us to enroll the best of the best in our P1 PharmD class.

ENROLLMENT (FALL HEADCOUNT)

	PharmD	BS	BS/MS	MS	PhD	Total
2004-05	448	29	1	8	35	521
2005-06	467	34	4	6	35	546
2006-07	470	37	3	7	39	556
2007-08	481	32	11	5	35	564
2008-09	490	30	9	7	37	573

For 2008, the University at Buffalo welcomed another highly talented freshman class, with 330 students indicating pre-pharmacy as their intended major, representing nearly 10 percent of the incoming class. UB's early assurance program continues to offer outstanding pre-pharmacy students the opportunity to enter our PharmD professional program with a minimum GPA of 3.5. For the 2008-09 academic year, the median GPA for early assurance students accepted into the program was 3.8

APPLICANT OVERVIEW

Year of admission (expected year of graduation)	Number of applications	Number admitted	Average GPA	Average PCAT score	Percent (numbers) holding a baccalaureate or higher degree
2004 (2008)	822	117	3.48	396*	39% (46)
2005 (2009)	1,051	120	3.55	395*	34% (41)
2006 (2010)	1,375	124	3.54	395	28% (35)
2007 (2011)	1,196	122	3.50	398	51% (62)
2008 (2012)	1,401	119	3.60	395	52% (62)
2009 (2013)	1,472	125	3.60	397	42% (52)

^{*}During this year, SoPPS accepted other scores (e.g., MCAT) and waived PCAT requirements for UB early assurance students.

Dean's Ambassador Programs

To help select and recruit the Class of 2013, the Office of Admissions and Advisement engaged our Dean's Alumni Ambassadors and Dean's Student Ambassadors. These programs were created in 2007 to encourage the enrollment of talented and diverse students through the personal efforts of our esteemed alumni and current students.

Our 54 Dean's Alumni Ambassadors make up a select advocacy group that provides a meaningful way for our graduates to support their alma mater. Alumni have an opportunity to interact with prospective students through a variety of activities, including committee review of applications, on-site interviewing, letter writing, making congratulatory admission and scholarship contacts, and representing UB at college fairs and informational sessions. This volunteer corps also helps maintain and increase our exposure at local, national and international recruitment events while minimizing the school's travel-related recruitment costs.

Through the Dean's Student Ambassadors program, 50 current students interact with prospective students through such activities as hosting visitors, welcoming and mingling with applicants, leading guided tours of the campus and school, and posting admissions blogs. Upon graduation, it is expected that student ambassadors will become alumni ambassadors.

DEGREES GRANTED (2008-09)

Total	142
PhD in Pharmaceutical Sciences	2
MS in Pharmaceutical Sciences	5
BS/MS in Pharmaceutical Sciences	5
BS in Pharmaceutical Sciences	16
PharmD	114

DEGREE PROGRAM ENROLLMENT (2008-09)

P1 Year	116
P2 Year	122
P3 Year	127
P4 Year	125
PharmD Subtotal	490
BS in Pharmaceutical Sciences	30
BS/MS in Pharmaceutical Sciences	9
MS in Pharmaceutical Sciences	7
PhD in Pharmaceutical Sciences	37
Pharmaceutical Sciences Subtotal	83
Total Enrollment	573

Continuing Education

Office of Postgraduate Professional Continuing Education

FISCAL YEAR 2008-09	
UB Programs	14
UB Certificate Programs	1
Home Study Programs	3
Cosponsored	16
Total	34

The Office of Postgraduate Professional Continuing Education, Department of Pharmacy Practice, conducted and accredited 30 continuing pharmacy education programs over the past year. Programming-delivery options have grown to include live, home study, Web-based, videoconferencing, teleconferences and WebEx offerings. WebEx allows students to participate in educational programming directly from a computer, featuring interactivity during live sessions.

This modality offers the opportunity for alumni and preceptors to participate in SoPPS offerings from across the country.

The postgraduate office has brought continuing education programs to a number of our precepting hospital sites, allowing for educational sessions to be conducted at the convenience of the pharmacy staff. During the coming year, this initiative will continue to be expanded to additional Western New York training sites.

A number of our SoPPS faculty members have been certified as official trainers of the APhA immunization program. For the 2008-09 academic year, the postgraduate office has certified more than 92 pharmacists in the Western New York region as APhA immunizers. Certification will continue for pharmacists who would like to become immunizers.

Precepting SoPPS students offers pharmacists the opportunity to gain credits and apply those credits toward continuing education opportunities. Additional information on becoming a preceptor can be found on the school's Web site (www.pharmacy.buffalo. edu) or by contacting the Office of Experiential Education at (716) 645-4799.

Online registration is available for all programming via the school's Web site (www.pharmacy.buffalo.edu).

UB Continuing Education Programs and Symposia

8/10/08	Pharmacists and Dietary Supplements: No different than an OTC role?
12/14/08	Counterfeit Medications
1/17/09	Pharmacy Based Immunization Delivery (APhA program) Buffalo
2/22/09	Pharmacy Law Update 2009 Buffalo
3/15/09	Developing Effective Strategies for Motivating and Evaluating Students
3/22/09	Pharmacy Law Update 2009 Rochester
3/28/09	Pharmacy Based Immunization Delivery (APhA program) Rochester, Syracuse
4/05/09	Acute Coronary Syndromes: Focus on Preventing Recurrent Cardiac Events
5/02/09	Cardiology Pt. 2: What's New in Antiplatelet Therapy
5/13/09	Academic Dishonesty
5/20/09	Professional Practice Review Series Day 1
5/21/09	Professional Practice Review Series Day 2
5/27/09	Clinical Updates
Ongoing	Online: HIV Annual CE Update
Ongoing	Online: HIV Pharmacotherapy Continuing Education Program
Ongoing	Online: Introductory HIV Pharmaceutical Care Specialist Program



Pharmaceutical Sciences

PHD STUDENTS

Pfizer Inc. Lubna Abuqayyas Jing Fang

Amgen Inc. Wei Gao

Kapoor Foundation Surajkumar Bhansali

Merck & Co. Dipak Pisal

Sankyo Pharma Inc. Anson Abraham

Schering Corp. Yang He

Eli Lilly & Co. Melanie Tait

PHARMACEUTICAL SCIENCES POSTDOCTORAL FELLOWS

Genentech BioOncology Jun Wang

POSTDOCTORAL FELLOWS

Pfizer Inc. Wei Ji Cornelia Landersdorfer Indrajeet Singh

Johnson & Johnson Inc. Jurgen Bulitta

Therapeutics Shang-Chiung Chen John Harrold Leonid Kagan Dongweon Song Fang Wu

Center for Protein

Pharmacy Practice

PHARMACY POSTGRADUATE RESIDENTS AND FELLOWS

Lifetime Health Medical Group

Joseph Herges

Buffalo Medical Group Patrina McCauley

Novartis Pharmaceuticals

Corp.

Qusai Al-share Varsha lyer

Residency Training Program **Summary 2008-09**

The Department of Pharmacy Practice maintained its commitment to providing postgraduate education through general (PGY1) and specialty (PGY2) residency training. During the 2008-09 academic year, our residency program was composed of five PGY1 and five PGY2 programs. Our mission: to educate pharmacy residents in pharmacy practice, clinical precepting, didactic teaching, clinical research and manuscript writing; to provide patient care; and to provide services to the community-at-large based upon this knowledge, with the goal of training pharmacy residents to practice autonomously in the clinical pharmacy and/ or academic settings—sets the framework for our program. The goals of our program are accomplished by involving our residents in clinical activities, research projects and teaching. Specifically, our residents participate in a unique didactic research course, attend an established teaching certificate program, actively participate in small and large group didactic teaching and clinical precepting, present an Accreditation Council for Pharmacy Education accredited CE program and conduct a research project. The University at Buffalo School of Pharmacy and Pharmaceutical Sciences sponsors an annual Residency Presentation Day, which continued to expand in 2009, and now includes multiple residency programs from the Western New York, Rochester and Syracuse areas.

William A. Prescott Jr.

Clinical Assistant Professor, Residency Program Director

PHARMACY PRACTICE RESIDENTS/FELLOWS

Qusai Al-share, PharmD Fellow

Drug Development/Novartis

Damir Begic, PharmD Fellow

Drug Development/Novartis

Holly Coe, PharmD Resident

PGY2 - Pharmacoinformatics

Miranda Cole, PharmD Resident

PGY1 - Psychiatry

Misty Gonzalez, PharmD Resident

PGY2- Psychiatry

Joseph Herges, PharmD Resident PGY1- Ambulatory Care/ Lifetime Health Medical Group

Varsha Iyer, PhD Fellow Drug Development/Novartis Charlemagne Lacza, PharmD Fellow ICPD/Ordway

Rachelle Lubin, PharmD Fellow Drug Development/Novartis

Meri Lynch, PharmD Resident PGY1 - Homecare/Hospice and Palliative Care

Patrina McCauley, PharmD Resident PGY1 - Primary Care/Buffalo Medical Group

Lori Podkulski, PharmD Resident PGY1 - Family Medicine/ECMC

Joshua Sawyer, PharmD Resident PGY2 - HIV/ID ECMC

Jurgen Bulitta Mechanistic PK/PD Modeling on Anti-Infective Drugs

Shang-Chiung Chen Investigation of the Influence of FcRn on Target-mediated Elimination of Monoclonal Antibody (mAb)

Xiaotao Duan Mass Spectrometric Analysis in Clinical Proteomics and Endogenous Metabolism

John Harrold Multi-scale Systems Analysis of Anti-CD20 mAb Pharmacodynamics

Wei Ji Steroid Receptor Regulated Gene Expression

Leonid Kagan Investigation of Interferons PK and PD

Investigation of Subcutaneous Samuel Roiko Absorption of Monoclonal Antibodies

Cornelia Landersdorfer Pharmacokinetics and Pharmacodynamics of Antidiabetic Drugs

Jun Li Proteomic Investigation of Drug Therapy Responsive Proteins and Their Posttranslational Modifications (PTMs)

Anshu Marathe Systems Modeling of Bone Homeostasis in IFN-beta PK/ PD

Srinidi Mohan Arginine Paradox and Tolerance

Yuzhuo Pan miRNA Regulation on Drug Metabolism and Disposition The Role of Monocarboxylate Transporters in the Toxicokinetics/ Toxicodynamics of GHB (gamma-hydroxybutyrate)

Hongwu Shen Drug-Drug Interactions of Indolealkylamines

Indrajeet Singh Upregulation of Erythropoietin and Reticulocytes in Rats Induced with Hypoxia and the Resultant PK/PD Analysis

Dongweon Song The Mechanism of Intravenous IgG (IVIG) in Autoimmune Disease

Pei-Suen Eliza Tsou Mechanism of Nitrate Tolerance

Fang Wu Lymphatic Uptake of Proteins: Use of Whole Body Fluorescence in Rats

Jianping Zhang Pharmacogenetics of Human Reductases

Qi Zhang PK/PD/PG/DIS Models for Drug Interactions with Cvtokines in a Rat Model of RA

Weiyan Zhang Construction and Expression of Chimeric Antibody

Xiaoyan Zhang Development and Evaluation of Immune Complex Therapies in Rodent Models of Thrombocytopenic Purpura (ITP)

Investigation of the Influence of FcyR on the Elimination of Monoclonal Antibody (mAb)

Commencement Awards

Lilly Achievement Award

Alina Eisen

Phi Lambda Sigma of Achievement, Chapter Member of the Year Award Kathryn Jones

GlaxoSmithKline Patient Care Award James Bartlett

Michael E. Crawford Award Christina Ramsay

Eino Nelson Award

Caitlin Nelson

Pharmacy and Pharmaceutical Sciences Alumni Association Award

Lisa Nichols

David E. Guttman Award

Christopher Pignato

Renee A. Dederich Award

Michael Guskey

Francis P. Taylor Award

Caitlin Nelson

UB School of Pharmacy and Pharmaceutical Sciences Professionalism Award

Liliana Yohonn

Robert H. Ritz Award

Andrew Wohlrab

National Community Pharmacists Association Outstanding Student Member Award

Alexandra Centeno

Roger Mantsavinos Award

Jade Yang

Lori Esch Memorial Award

Kristen Pregizer

Merck Award

1st Caitlin Nelson, 2nd Andrew Wohlrab, 3rd James Bartlett

Roche Pharmacy Communications Award Margaret C. Swisher Memorial Award

Shelley Wilson

Robert M. Cooper Memorial Award

Liliana Yohonn

Mylan Pharmaceutical Excellence in Pharmacy Award

Alyssa Murphy

Facts and Comparisons Award of Excellence in Clinical Communication

Yu-Ching Hsia

Roy M. Barr Award

Caitlin Nelson

Western New York Society of Health System Pharmacists Award

Lauren McCarthy

Samuel J. Bauda Award

Amy Hall

Pharmacists Society of the State of New York

Kathryn Jones

Natural Medicines Comprehensive Database Recognition Award

Jade Yang

McKesson Leadership Award

Liliana Yohonn

TEVA Pharmaceuticals USA Outstanding Student Award

Brent Footer

Andrew Wohlrab

A.B. Lemon Memorial Award

Darowan Akjagbor

ASP Certificate of Recognition

Tara Sidora

Applied Pharmacotherapy Professional Experience Program Award

Michael Guskey

Ambulatory Care Professional Experience

Program Award

Caitlin Nelson

Pharmacists Association of Western New

York Student Leadership Award

Joseph DiNicolantonio

Perrigo Award of Excellence in Non-Prescription Medication Studies

Jamie Fisher

Excellence in Pharmacogenomics Award

Jade Yang

Katherine Doyle Memorial Award

Timothy Vink

Kelli Jordan Memorial Award

Liliana Yohonn

Excellence in Teaching Award

Nicole Paolini Albanese, PharmD

Clinical Assistant Professor

2009 Who's Who Among Students in American **Universities and Colleges**

Darowan Akajagbor Kimberly Allison Alexandra Centeno Joseph Dinicolantonio Alina Eisen Raymond Gachette Laura Gawron Michael Ghobrial Meghan Groth Amv Hall Matthew Hamed Yu-Ching Hsia Kathryn Jones Evangelia Malliaris Lauren McCarthy Alyssa Murphy Lisa Nichols Christina Ramsay Alister Rubenstein Basirat Shoberu Tara Sidora Jade Yang

Elizabeth Yearwood

Liliana Yohonn

Student Achievements

2009 Celebration of Academic **Excellence Student Research Poster** Presenters

Loreen Osei Agyemang Brent W. Footer Jian Hui Liu Alexander McCabe Tina Tsang Charles Venuto Liliana Yohonn

Excellence in Pharmaceutical Sciences 2008

Kofi Adeii Samuel Aitken Rezarta Ajazi Brian Ames Danielle Baldwin Stephen Bernard Pulkit Bhuptari Christopher Chan Christopher Daly Julie Davis Christopher Diehl Thao Doan Alina Eisen Madlin Faria Jessica Fedele Kate Fifield Brent Footer Kaitlin Ganley Michael Guskey Carolyn Hempel

Yu-Ching Hsia Jessica Jones

Naga Kalidoss Kristie Kowalski Na Rae Kwon Ji Hye Lee

Peggy Lee Susan Lee Kristen Lim

Susan Lo Hoi Man Ma Jackson Maina

Cherae Mangus Debra Morris-Allen Caitlin Nelson

Allison Pitman Michael Quermback Christina Ramsev

Gauri Rao Stacy Reger Gabrielle Riorden Erik Rogers

Anand Shah Grace Shyh Kelly Smith Amy Telesz Laura Vespi

Benjamin Wee Andrew Wohlrab Rebekah Yate Kristen Zeitler

41st Annual Pharmaceutics Graduate Student Research Meeting Presenters

Sihem Ait-Oudhia Dhaval Shah

2009 SoPPS Student Research **Poster Presenters**

Loreen Osei Agyemang Brent W. Footer Jian H. Liu* Alexander McCabe Tina Tsang Charles Venuto Liliana Yohonn

*selected as outstanding poster presentation

Individual Achievements

Elizabeth Sanders, poster presentation at the American College of Clinical Pharmacy 37th Annual Meeting

Gauri Rose, selected for the American Pharmacists Association (APhA) 2009 One to One Counseling Recognition Program

Charles Venuto, poster presentation at the 16th Conference on Retroviruses and Opportunistic Infections

Kristen Zeitler, selected to serve on this year's American Pharmacists Association-Academy of Students of Pharmacy (APhA-ASP) Policy Standing Committee and recipient of the United States Public Health Service Excellence in Pharmacy Practice Award

Susan Chang, winner of the 2009 New York State Council of Health-System Pharmacists Student Essay Contest

Jamie Chin, recipient of the 2009 University at Buffalo Pillars Exemplary Leadership Award

Kristin Gawronski, nominated to attend the 10th Annual Cardinal Health Student Leadership Conference and recipient of \$5,000 scholarship from the American Foundation for Pharmaceutical Education

Alina Eisen, recipient of the RESPy (Respect, Excellence and Service in Pharmacy) award

Liliana Yohonn, recipient of the SoPPS Daniel F. Murray Professional Development Award

Kristin Kielar, recipient of \$5,000 scholarship from the American Foundation for Pharmaceutical Education

2008-09 SoPPS Degree Recipients

Bachelor of Science in Pharmaceutical Sciences

SEPTEMBER 2008

Miyuki Smith

FEBRUARY 2009

Sanya Bici

JUNE 2009

Loreen Agyemang Christopher DeRycke Katherine Gancasz Asfiha Gebreegziabher Jasbir Kaur Juan Lin Alexander McCabe Christopher Pignato

Bachelor of Science/Master of Science in Pharmaceutical Sciences

SEPTEMBER 2008

Amanda Pinski

Hoi Kei Lon

FEBRUARY 2009

Ya Ping Chen Wing Man Pang

JUNE 2009

Therese Toumaha Leuko Thu Dung Nguyen

Master of Science in Pharmaceutical Sciences

FEBRUARY 2009

Dapeng Cui Prashant Varma Haoying Yu

JUNE 2009

Lakshmi Viswanathan

Doctor of Pharmacy

FEBRUARY 2009

Nicholas Jennings Christina Spoonley

JUNE 2009

Darowan Akajagbor Kimberly Allison Anthony Altieri James Bartlett Rebecca Blenski Amanda Blum Deanna Cartenuto James Catanese Alexandra Centeno Simon Chan Isabel Chen Shuming Chen

NgaShan Cheung Timothy Chiang Colleen Clarke Stacie Coleman Erin Connaughton

Matthew Cosgrove Sheetal Desai Emily DiCesare Tyler DiMenna

Joseph DiNicolantonio
Jonathan Dittmar

Bright Dzomeku Gifty Edusei

Alina Eisen Jessica Fedele Michelle Fedeson

Jamie Fisher Brent Footer James Ford

Mary Freeman Jineane Freilich Raymond Gachette

Laura Gawron Michael Ghobrial Meghan Groth

Michael Guskey Amy Hall

Matthew Hamed Erica Herman Yu-Ching Hsia

Lisa Imbrogno

Jennifer Iuppa Jessica Jones Kathryn Jones

Naga Kalidoss Lisa Kenny

James Kern Kristie Ann Kowalski

Philip Landi Chui Lau Sangeoun Lee Pitki Lo

Brett Lown Man Ly Timothy Lyon Laurie Macander

Ka Leong Mak Evangelia Malliaris Cherae Mangus Stephen Matics

Stephen Matics Lauren McCarthy Debra Morris-Allen Man Chi Mui Alyssa Murphy

Caitlin Nelson Lisa Nichols Kwadwo Nti-Boadu Ryan Petronis Kristen Pregizer Michael Quermback Jessica Rademacher

Sarah Rake Christina Ramsay Farid Rezaei

Amanda Rivet

Shannon Rotolo Alister Rubenstein Elaine Rzadca

Peter Saad Michael Schifano Michael Seternus Michael Shao

Basirat Shoberu Tara Sidora Ryan Simmons Cheryl Smith Kelly Smith

Kristine Smith
Lisa Smith
Stephen Spencer
Andrew Stauber

Joseph Steblein Heather Stickle Paul Stoyell Richard Sucese

Maria Trinanes-Bowie Jennifer Trotta Timothy Vink

Mark Vittore
Ashley Whieldon
Scott Williamson

Shelley Wilson Andrew Wohlrab Eric Woodruff Hong En Wu

Jade Yang Elizabeth Yearwood Liliana Yohonn Cella Yau Yung

Anthony Zuppelli

Doctor of Philosophy in Pharmaceutical Sciences

JUNE 2009

Shweta Ramesh Urva



Research and Training

During the 2008-09 academic year, the departments of Pharmaceutical Sciences and Pharmacy Practice experienced continued growth and expansion.

Department of Pharmaceutical Sciences

The Department of Pharmaceutical Sciences has a well-established, international reputation for excellence in teaching and research, and is well positioned to expand its expertise in pharmacokinetics, pharmacodynamics and protein therapeutics. Moreover, the department is a leading academic institute for cutting-edge research and teaching in pharmacogenomics. The department's strengths lie in biological applications of pharmaceutical sciences to traditional small molecules, as well as biotechnology products, particularly areas of systems pharmacology (pharmacokinetics, pharmacodynamics, pharmacogenomics), drug delivery and development of new therapeutic approaches utilizing mechanistic studies with tools of genomics, proteomics, computation and bioinformatics.

Of special note was the expansion of the Center for Protein Therapeutics, directed by Joseph P. Balthasar, with assistance from faculty members Robert Straubinger and Sathy Balu-Iyer, and other members of the department. The center seeks to apply our capabilities in protein analysis, formulation, and pharmacokinetics and pharmacodynamics to address major questions regarding the delivery, pharmacokinetics and in vivo effects of such protein drugs as monoclonal antibodies. Research labs are located in UB's New York State Center of Excellence in Bioinformatics and Life Sciences on the Downtown Campus, and in Cooke and Hochstetter halls on the North Campus. Financial support—\$1.5 million—for the center's second year of research and training was provided by Pfizer, Merck, Hoffman-LaRoche, Eli Lilly, Genentech and Abbott, with additional funding provided by Novartis and Amgen.

The department's outstanding faculty covers a range of academic levels and carry highly productive, largely NIH-funded research programs, as well as some corporate support. More than \$200,000 for graduate student training was provided by Merck, Eli Lilly, Daiichi Sankyo, Schering-Plough and Amgen; and Pfizer Pharmaceuticals continued funding a \$500,000 training grant to support six students and four postdocs.

The department sponsored an active seminar program that featured 42 presentations by local and visiting scientists. Meindert Danhof, professor of pharmacology at Leiden University in the Netherlands, was selected to deliver the 2008 Gerhard Levy Distinguished Lecture in Pharmaceutical Sciences. His presentation was titled, "Systems Pharmacology in Translational Medicines Research." Other notable speakers during the academic year included Jean-Michel Scherrmann from the University of Paris, Eric Xu from the Van Andel Research Institute in Michigan, Mary Spilker from Pfizer, Amy Rosenberg from the FDA, Jeffrey Wald from GSK, Margarita Dubocovich from the UB Department of Pharmacology and Toxicology and Ravi Iyengar from Mount Sinai. Mario Rocci, executive vice president of Prevelare Life Sciences, was selected by the graduate students to present the Annual Pharmaceutics Alumnus Lecture. His topic: "Innovations in Bioanalysis in the Biomedical Arena.'

Department faculty members disseminated their scientific accomplishments and knowledge, publishing 88 research articles and book chapters and delivering 147 seminars, lectures and research presentations at various scientific meetings, and at academic and industrial venues. Five faculty members serve as editors of journals, and many participate on journal editorial boards and NIH study sections.

The department in May continued its tradition of offering annual courses in "Pharmacokinetic-Pharmacodynamic Modeling," "Protein Therapeutics" and "Population Pharmacokinetic Modeling" for visiting scientists from the pharmaceutical industry, academia and the FDA. The PK/PD modeling course was the 17th such session of that course. Similarly, the department offers an annual summer workshop in "Molecular Genetic Methodologies for Pharmaceutical Sciences." Some of these courses also are provided on site at various pharmaceutical companies and other universities. For example, faculty members William Jusko, Joseph Balthasar and Donald Mager taught the PK/PD modeling course to 52 scientists from various countries at the University of Paris Descartes in January 2009.

Several faculty members received recognition from SUNY during the past year. Jusko was promoted to SUNY Distinguished Professor, the highest faculty rank in the SUNY system. In addition, Straubinger received the Chancellor's Award for Excellence in Scholarship and Creative Activities, and Gayle Brazeau received the Chancellor's Award for Excellence in Faculty Service.

The department is poised for further growth in its research and training programs, with plans to add an additional faculty member, increase training of graduate students and postdoctoral fellows, and expand its expertise in the areas of protein therapeutics and cancer therapeutics.



Department of Pharmacy Practice

The 2008-09 academic year was a robust and productive year for the Department of Pharmacy Practice. The faculty base grew with the addition of four new faculty members: Nicholas Norgard, PharmD, cardiology; Fred Deloresco, PharmD, cardiology/MTM; Jack Brown, PharmD, infectious diseases; and Richard Kraft, PharmD, cardiology. These faculty members have added much to the department's teaching and research programs, and we look forward to their continued contributions.

Our faculty members represented the school well at many national meetings. At the 2008 American Association of Colleges of Pharmacy meeting, five faculty members gave presentations on topics ranging from faculty development to Web-based certificate programs. In addition, five faculty members and fellows were key presenters on a variety of nationally relevant topics at the 2008 joint meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America.

The department is proud of its continued collaboration with the New York State Department of Health. Joint activities have continued to grow and expand, with participation in a pilot Medication Therapy Management Program, statewide drug utilization review and a novel prescriber education program. These efforts, in collaboration with other SUNY health sciences units, are expected to benefit New York State Medicaid recipients.

The Office of Experiential Education has continued to meet the ever-increasing demands for rotational sites for our P1–P4 students. The experiential program has completed its transition to standardized, six-week P4 rotations and has launched P4 summer rotations. The number of out-of-region rotations continues to grow, and rotation scheduling has

begun earlier, allowing for better student and site plan-

ning. The introductory pharmacy practice experiences continue to progress and will be fully implemented in academic year 2009-10. Faculty development programs continue to expand and grow.

Special Honors for Faculty and Staff

Cynthia Acara, staff assistant, recipient of the SUNY College Admissions Professionals Achievement Award.

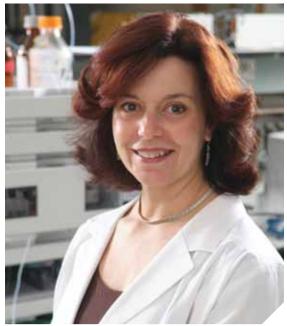
Nicole Paolini Albanese, clinical assistant professor, recipient of the SoPPS 2009 Teacher of the Year Award.

Gayle Brazeau, professor, recipient of the Chancellor's Award for Excellence in Faculty Service and the Phi Lambda Sigma Faculty Service Award, Beta Omicron Chapter.

Alice Ceacareanu, assistant professor, recipient of the Oncology Research Award, New York State Council of Health System Pharmacists and Amgen.

Robin DiFrancesco, CORE Laboratory manager, recipient of the 2009 Staff Recognition Award.

Debra Dubois, research associate professor, recipient of the AAPS Meritorious Manuscript Award, American Association of Pharmaceutical Scientists.







Karl Fiebelkorn, clinical associate professor, recipient of the Community Service Recognition Award of the Pharmacists Association of Western New York, PSSNY Faculty Excellence Award of the Pharmacists Society of the State of New York, Robert M. Cooper Memorial Award of the Western New York Society of Hospital Pharmacy and the Faculty Advisor Achievement and the Faculty Liaison Excellence Award, both of the National Community Pharmacists Association.

Patricia Grace, academic administrator and instructional support specialist, recipient of the 2009 SoPPS Staff Recognition Award.

William Jusko, professor, promoted to SUNY Distinguished
Professor. Recipient of an American Association of
Pharmaceutical Sciences Meritorious Manuscript Award, Paul
Ehrlich Magic Bullet Lifetime Achievement Award.

Donald Mager, assistant professor, appointed as a Fellow, American College of Clinical Pharmacology and a Visiting Professor, University of Paris Descartes.

Mary Pasko, clinical associate professor, SoPPS 2009 Faculty Preceptor of the Year.

William Prescott, clinical assistant professor, 2009 Alumni of the Year Award, Phi Lambda Sigma, Beta Omicron Chapter.

Robert Straubinger, professor, recipient of the Chancellor's Award for Excellence in Scholarship and Creative Activities, State University of New York.

Christine Stumm, assistant director, Office of Admissions and Advisement, recipient of the SUNY College Admissions Professionals Larry Appel New Professionals Award.

Kathleen Tornatore-Morse, associate professor, appointed as a Fellow, American College of Clinical Pharmacy.

Brian Tsuji, clinical assistant professor, recipient of the Exceptional Scholar Young Investigator Award, State University of New York.

Juliet Warrick, assistant program director, Pharmacy Practice and Postgraduate Education, recipient of the 2009 SoPPS Staff Recognition Award.

Aiming Yu, assistant professor, recipient of the Visionary Innovator Award, University at Buffalo.

Faculty Grants Awarded: 2008-09

July 1, 2008 - June 30, 2009

PHARMACEUTICAL SCIENCES

Joseph Balthasar

National Heart, Lung and Blood Institute

Pharmacology and Bioengineering of New Treatments of ITP

Multiple sponsors

Protein Therapeutics Consortium

Novartis Pharma AG

Laboratory for Protein Therapeutics

Sathy Balu-Iyer

National Heart, Lung and Blood Institute

Development and Pharmacology of Novel Lipidic RAHF

National Cancer Institute

Re-activating Memory T cells in Microenvironment of Human

Tumors

Javier Blanco

National Institute of General Medical Sciences

Pharmacogenetics of Human Carbonyl Reductases

City of Hope National Medical Center

Adverse Events After Childhood Hematologic Malignancies: Role of

Genetic Susceptibility

Ho-Leung Fung

National Heart, Lung and Blood Institute

Organic Nitrate Metabolism, Tolerance and Action

William Jusko

National Institute of General Medical Sciences

Mathematical Models in Pharmacodynamics

National Institute of General Medical Sciences

Corticosteroid Pharmacokinetics and Pharmacodynamics

Donald Mager

Amylin Pharmaceuticals Inc.

Pharmacokinetics and Pharmacodynamics of Exenatide and

Liraglutide

Barofold Inc.

Modeling of PK/PD Data for Baroferon

Marilyn Morris

National Institute on Drug Abuse

 ${\it Gamma-Hydrox butyrate: Toxic okinetics, Toxic odynamics and}$

Treatment Strategies

Jun Qu

National Heart, Lung and Blood Institute

Metabolic Adaptation and Functional Recovery of Hibernating

Myocardium

Kinex Pharmaceuticals LLC

KX2-391 Protein Interactions - Phase 1

Murali Ramanathan

National Multiple Sclerosis Society

Brain-Derived Neurotrophic Factor in Multiple Sclerosis

Robert Straubinger

American Foundation for Pharmaceutical Education

AFPE Fellowship for Kristin Kielar

Health Research Inc.

CCPD-1: Proteomics and Biopharmaceutical Analysis in Support of

Translational Cancer Research

National Center for Research Resources

High Performance Computational System to Support LCMS/

Proteomics Analysis

Aiming Yu

National Institute on Drug Abuse

 $Pharmacogenetics\ in\ Indoleal kylamine\ Metabolism\ and\ Drug$

Interactions

Environmental Protection Agency

Interpretation of Biomarkers Using Physiologically Based

Pharmacokinetic Modeling

PHARMACY PRACTICE

Jack Brown

Astellas Pharma U.S. Inc.

Impact of Previous Vancomycin Exposure on Patients with MRSA

Pneumonia

Cubist Pharmaceuticals

 ${\it Impact of Previous Vancomycin Exposure on Patients with MRSA}$

Bacteria

Alice Ceacareanu

New York State Council of Health System Pharmacists

Diabetes Pharmacotherapy in Breast Cancer: Quo Vadis

Alan Forrest

University of Pittsburgh

Optimizing Dosing of Colistin for Infections Resistant to all Other

Antibiotics

Gene Morse

University of Rochester

Targeted Neuro Protection of HIV-1 Associated Neurologic Disease

Erie County Medical Center
HIV Treatment Education

Erie County Medical Center

Adherence Project

Fogarty International Center

Antiretroviral Pharmacology Training in Resource Poor Countries

Social and Scientific Systems Inc.

ACTG Pharmacology Laboratory

Social and Scientific Systems Inc.

AACTG Pharmacology Laboratory

Social and Scientific Systems Inc.

ACTG Precautionary and Prohibited Medications Table

University of California-Berkeley

AIDS International Training and Research Program

Information Technology and Bioinformatics

Health Research Inc.

Pharmaceutical Safety Initiative: Enhancing Patient Safety with

Northwestern University

HIV/AIDS Adherence-Pharmacology Clinic and Pharmacology

Laboratory Training Module

University of California-San Francisco

Opiods and Medication: Interactions in Drug Abusers

National Institute of Allergy and Infectious Diseases

Clinical Pharmacology Quality Assurance and Quality Control

Kathleen Tornatore

National Institute of Diabetes and Digestive and Kidney

Diseases

ARRA: Genomic and Cellular Markers and Chronic Renal Allograft

Function

Novartis Pharmaceuticals Corp.

The Relationship of Drug Exposure and Immunodynamic

Responses During Myfortic Therapy in Stable African-American

and Caucasion Renal Transplant Patients

Brian Tsuji

Pfizer Pharmaceuticals

Profiling the Evolution of Vancomycin Resistance in Staphylococcus

17

Monash University

Targeting MDR Hetero-Resistant Gram-Negatives: PK/PD for

Aureus: Linking Human Exposure to Resistant Mutants

Rational Combinations

NEW TECHNOLOGY: PATENTS

Title	Name
Compositions and methods for less Immunogenic protein- lipid complexes	Sathy Balu-Iyer and Robert Straubinger
Reconstruction medium for protein and peptide formulations	Sathy Balu-lyer
Anti-FcRn antibodies for treatment of auto/allo immune conditions	Joseph Balthasar
A vaginal capsule with continuous chemical sensing and physiological measurement capabilities	Jerome Schentag
An ingestible capsule with continuous chemical sensing and continuous tracking using optical capabilities	Jerome Schentag
Sensor array with continuous monitoring of biological conditions, and method thereof	Jerome Schentag



Research and Training Awards Fiscal Year 2008-09

Pharmaceutical Sciences

Name	Sponsor	Program Type	Current Period	Project Period
J. Balthasar	Novartis Pharma AG	Continuation Research	\$900,000	\$900,000
J. Balthasar	Multiple sponsors	Continuation Research	\$450,000	\$900,000
J. Balthasar	National Heart, Lung and Blood Institute	Continuation Research	\$353,204	\$1,427,441
S. Balu-Iyer	National Heart, Lung and Blood Institute	Continuation Research	\$271,422	\$1,085,688
R. Bankert, S. Balu-Iyer	National Cancer Institute	New Research	\$17,294	\$87,668
J. Blanco	National Institute of General Medical Sciences	Continuation Research	\$270,516	\$1,374,843
J. Blanco	City of Hope National Medical Center	Continuation Research	\$10,000	\$20,000
J. Canty, J. Qu	National Heart, Lung and Blood Institute	Continuation Research	\$9,832	\$47,849
H. L. Fung	National Heart, Lung and Blood Institute	Continuation Research	\$384,759	\$1,935,286
W. Jusko	National Institute of General Medical Sciences	Continuation Research	\$697,751	\$1,737,563
W. Jusko	National Institute of General Medical Sciences	Continuation Research	\$253,399	\$1,040,826
D. Mager	Amylin Pharmaceuticals Inc.	New Research	\$35,697	\$35,697
D. Mager	Barofold Inc.	New Research	\$31,915	\$31,915
M. Morris	National Institute on Drug Abuse	Continuation Research	\$373,637	\$1,315,220
J. Qu	Kinex Pharmaceuticals LLC	New Research	\$12,426	\$12,426
J. Olson, A. Yu	Environmental Protection Agency	New Research	\$59,969	\$59,969
M. Ramanathan	National Multiple Sclerosis Society	Continuation Research	\$32,984	\$362,829
R. Straubinger	Health Research Inc.	New Research	\$24,847	\$24,847
R. Straubinger	National Center for Research Resources	New Research	\$150,039	\$150,039
R. Straubinger	American Foundation for Pharmaceutical Education	New Training	\$5,000	\$5,000
A. Yu	National Institute on Drug Abuse	Continuation Research	\$635,244	\$1,581,136
	Pharmaceutical Sciences Totals		\$4,979,935	\$14,136,242

Pharmacy Practice

Name	Sponsor	Program Type	Current Period	Project Period
J. Brown	Astellas Pharma U.S. Inc.	New Research	\$47,190	\$47,190
J. Brown	Cubist Pharmaceuticals	New Research	\$76,714	\$76,714
A. Ceacareanu	NYS Council of Health System Pharmacists	New Research	\$5,000	\$5,000
A. Forrest	University of Pittsburgh	Continuation Research	\$76,512	\$76,512
G. Morse	University of Rochester	Continuation Research	\$55,706	\$55,706
G. Morse	Social and Scientific Systems Inc.	New Research	\$320,566	\$320,566
G. Morse	Social and Scientific Systems Inc.	Continuation Research	\$80,914	\$399,261
G. Morse	Social and Scientific Systems Inc.	Renewal Research	\$295,671	\$295,671
G. Morse	Erie County Medical Center	Renewal Research	\$54,675	\$54,675
G. Morse	Erie County Medical Center	New Research	\$75,000	\$75,000
G. Morse	Erie County Medical Center	New Research	\$75,000	\$75,000
G. Morse	Northwestern University	New Training	\$11,904	\$11,904
G. Morse	University of California-Berkeley	New Research	\$25,000	\$25,000
G. Morse	University of California-San Francisco	New Research	\$176,748	\$176,748
G. Morse	Health Research Inc.	New Research	\$299,000	\$299,000
G. Morse	Fogarty International Center	New Research	\$300,119	\$1,500,595
G. Morse	National Institute of Allergy and Infectious Dis	eases Continuation Research	\$1,030,507	\$7,695,741
K. Tornatore	National Institute Diabetes and Digestive and Kidney Diseases	New Research	\$151,320	\$337,409
K. Tornatore	Novartis Pharmaceuticals Corp.	Supplemental Research	\$102,224	\$436,054
		Continuation Clinical Trial		
K. Tornatore	Novartis Pharmaceuticals Corp.		\$33,438	\$350,576
B. Tsuji	Pfizer Pharmaceuticals	New Research	\$46,666	\$46,666
B. Tsuji	Monash University	New Research	\$69,791	\$654,292
	Pharmacy Practice Totals		\$3,409,665	\$13,015,280
	School Totals		\$8,389,600	\$27,151,522

Scholarship

Pursue innovation, identify solutions and present results to enhance the local, national and international leadership of SUNY, UB and the SoPPS.

Intellectual Contributions
July 1, 2008-June 30, 2009

Pharmaceutical Sciences

BALTHASAR, JOSEPH

Shah, D. K., Shin, B. S., Veith, J., Toth, K., Bernacki, R. J., Balthasar, J. P. (2009). Use of an anti-vascular endothelial growth factor antibody in a pharmacokinetic strategy to increase the efficacy of intraperitoneal chemotherapy. J Pharmacol Exp Ther. 2009 May;329(2):580-91. Epub 2009 Feb 20.

Shin, B. S., Yoon, C. H., Balthasar, J. P., Choi, B. Y., Hong, S. H., Kim, H. J., Lee, J. B., Hwang, S. W., Yoo, S. D. (2009). Prediction of drug bioavailability in humans using immobilized artificial membrane phosphatidylcholine column chromatography and in vitro hepatic metabolic clearance. Biomed Chromatogr. 2009 Jul;23(7):764-9.

Urva, S. R., Shin, B. S., Yang, V. C., Balthasar, J. P. (2009). Sensitive high performance liquid chromatographic assay for assessment of doxorubicin pharmacokinetics in mouse plasma and tissues. J Chromatogr B Analyt Technol Biomed Life Sci. 2009 Mar 15;877(8-9):837-41. Epub 2009 Feb 11.

BALU-IYER. S

Kosloski, M., Miclea, R. D., Balu-Iyer, S. V. (2009). Role of Glycosylation in Conformational stability, activity, macromolecular interaction and immunogenicity of recombinant human Factor VIII. AAPS Journal, In Press.

Korotchkina, L. G., Ramani, K., Balu-lyer, S. V. (2008). Folding consideration of therapeutic proteins. Prog Mol Biol Transi Sci, 83, 255-270.

Ramani, K., Miclea, R. D., Gaitonde, P., Straubinger, R. M., Balu-Iyer, S. V. (2008). Passive Transfer of Polyethyleneglycol to Liposomal-Recombinant Human FVIII Enhances its Efficacy in a Murine Model for Hemophilia A. Journal of Pharmaceutical Sciences, 97(9), 3753-3764. Themistou, E., Singh, I., Balu-lyer, S. V., Alexandridis, P., Neelamegham, S. [2008]. Change in Solution Structure of Human Blood Protein von Willebrand Factor Caused by Shear. Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.), 49[2], 399-400.

BLANCO. JAVIER

Gonzalez-Covarrubias, V. M., Zhang, J., Kalabus, J. L., Relling, M. V., Blanco, J. G. (2009). Pharmacogenetics of human carbonyl reductase 1 (CBR1) in livers from black and white donors. Drug Metabolism and Disposition, 37(2), 400-407.

Gonzalez-Covarrubias, V. M., Blanco, J. G. (2008). Pharmacogenetics of human carbonyl reductase 1 (CBR1) in livers from black and white donors (Abstract).

Blanco, J. G., Leisenring, W. M., Kawashima, T. I., Davies, S. M., Relling, M. V., Robison, L. L., Sklar, C. A., Stovall, M., Bhatia, S. (2008). Genetic polymorphisms in the carbonyl reductase 3 gene CBR3 and the NAD(P) H:quinone oxidoreductase 1 gene NQ01 in patients who developed anthracycline-related congestive heart failure after childhood cancer. Cancer, 112(12), 2789-2795.

Gonzalez-Covarrubias, V., Kalabus, J. L., Blanco, J. G. (2008). Inhibition of polymorphic human carbonyl reductase 1 (CBR1) by the cardioprotectant flavonoid 7-monohydroxyethyl rutoside (monoHER). Pharm Res, 25(7), 1730-1734.

BRAZEAU, DANIEL

Jaenecke, K., Stewart, M., Morris, M. E., Brazeau, D. A., Havard, P. F. (2009). A Semi-Quantitative Comparison of P-glycoprotein Protein Expression in Peripheral Blood Mononuclear Cells Between the Maternal and Fetal Compartments. Accepted to the 2009 APhA Annual Meeting, San Antonio TX, April 3-6, 2009 San Antonio, Texas (Abstract).

Telang, U., Brazeau, D. A., Morris, M. E. (2009). Comparison of the effects of phenethyl isothiocyanate and sulforaphane on gene expression in breast cancer and normal mammary epithelial cells. Exp Biol Med, 234(3), 287-295.

Tornatore-Morse, K. M., Suchada, P., Brazeau, D. A., Venuto, R. C. (2009). Time Dependent Expression of MRP-2 in Peripheral Mononuclear Cells in African-American and Caucasian Renal Transplant Recipients (ed., vol. 85, pp. S74). New York, New York: Nature Publishing Group (Abstract).

Lubin, R., Tam, P. Y., Brazeau, D. A., Forrest, A., Colombo, D., Liu, Z., Havard, P. F. (2009). The Relationship of ABCB1 Gene Expression and the C3435T and G2677T Polymorphisms between Maternal and Fetal Peripheral Blood Mononuclear Cells (PBMCs) [Abstract 931]. Montreal (Abstract).

Tornatore-Morse, K. M., Suchada, P., Brazeau, D. A., Venuto, R. C. (2009). Time Dependent Expression of MRP-2 in Peripheral Mononuclear Cells in African-American and Caucasian Renal Transplant Recipients (vol. 85) (Abstract).

Brazeau, D. A., Brazeau, G. A. (2009). Role of the Genomics Revolution in Pharmaceutics. Laboratory Medicine, 40(5), 261-266.

Renzi, S. E., Sauberan, M. E., Brazeau, D. A., Brazeau, G. A. (2009). Leadership Activities among Students with Varying Pre-Pharmacy Years in College. American Journal of Pharmaceutical Education, 72(6), Article 149.

Brazeau, D. A., Brazeau, G. A. (2008). Pharmacogenomics of Warfarin Therapy for venous thromboembolism. Clinical Laboratory(CL-8), 2-5.

Chanda, P., Sucheston, L. E., Zhang, A., Brazeau, D. A., Freudenheim, J. L., Ambrosone, C., Ramanathan, M. (2008). AMBIENCE: A Novel Approach and Efficient Algorithm for Identifying Informative Genetic and Environment Interactions Associated with Complex Phenotypes. Genetics.

BRAZEAU, GAYLE

Brazeau, D. A., Brazeau, G. A. (2009). Role of the Genomics Revolution in Pharmaceutics. Laboratory Medicine, 40(5), 261-266. Wasan, K., Brazeau, G. A., Fielding, D. (2009). Introduction to the International Pharmacy Education Supplement. American Journal of Pharmaceutical Education(72(6)), Article: 126.

Renzi, S. E., Sauberan, M. E., Brazeau, D. A., Brazeau, G. A. (2009). Leadership Activities among Students with Varying Pre-Pharmacy Years in College. American Journal of Pharmaceutical Education, 72(6), Article 149.

Brazeau, G. A., Anderson, W. K. (2008). In Chase, P. A., Hayes, B. E., Yanchick, V. A. (Ed.), Understanding Tenure and Promotion Guidelines and the Role of Faculty Unions (vol. Chapter 12, pp. 103-109). Alexandria, VA: American Association of Colleges of Pharmacy.

Brazeau, D. A., Brazeau, G. A. (2008). Pharmacogenomics of Warfarin Therapy for venous thromboembolism. Clinical Laboratory (CL-8), 2-5.

Brazeau, G. A., Havard, P. F., Bednarczyk, E. M. (2008). Implementation and Assessment of a Formal Junior Faculty Review Process for Enhancing Professional Development. Chicago, IL (Abstract).

DUBOIS, DEBRA

Almon, R. R., Dubois, D. C., Lai, W., Xue, B., Nie, J., Jusko, W. J. (2009). Gene expression analysis of hepatic roles in cause and development of diabetes in Goto-Kakizaki rats. J Endocrinol, 200, 331-346.

Landersdorfer, C. B., Dubois, D. C., Almon, R. R., Jusko, W. J. (2009). Mechanism-based modeling of nutritional and leptin influences on growth in normal and type 2 diabetic rats. J Pharmacol Exp Ther, 328, 644-651.

Earp, J. C., Dubois, D. C., Almon, R. R., Jusko, W. J. (2009). Quantitative dynamic models of arthritis progression in the rat. Pharm Res, 26, 196-203.

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Almon, R. R., Yang, E., Lai, W., Androulakis, I. P., Ghimbovschi, S., Hoffman, E. P., Jusko, W. J., Dubois, D. C. (2008). Relationships between circadian rhythms and modulation of gene expression by glucocorticoids in skeletal muscle. Am J Physiol Regul Integr Comp Physiol., 295, R1031-R1047.

Almon, R. R., Yang, E., Lai, W., Androulakis, I. P., Dubois, D. C., Jusko, W. J. (2008). Circadian variations in rat liver gene expression: relationships to drug actions. J Pharmacol Exp Ther, 326, 700-716.

Almon, R. R., Dubois, D. C., Almon, A. S. (2008). Humans: How They function. New York: Pearson.

Earp, J. C., Dubois, D. C., Molan, D. S., Pyszcznski, N. A., Keller, C. E., Almon, R. R., Jusko, W. J. (2008). Modeling corticosteroid effects in a rat model of rheumatoid arthritis I: mechanistic disease progression model for the time course of collagen-induced arthritis in Lewis rats. J. Pharmacol. Exp. Ther., 326, 532-545.

Earp, J. C., Dubois, D. C., Molano, D. S., Pyszczynski, N. A., Almon, R. R., Jusko, W. J. (2008). Modeling corticosteroid effects in a rat model of rheumatoid arthritis II: mechanistic pharmacodynamic model for dexamethasone effects in Lewis rats with collagen-induced arthritis. J Pharmacol Exp Ther., 326, 546-554.

FUNG. HO LEUNG

Pei-Suen, T., Vamsi, A., Fung, H. (2009). Dissociation between superoxide accumulation and nitroglycerin-induced tolerance. J Pharmacol Exp Ther, 327(1), 97-104.

Fung, H., Tsou, P., Bullita, J. B., Tran, D. C., Page, N. A., Soda, D., Fung, S. (2009). Pharmacokinetics of 1,4-butanediol in rats: bioactivation to gamma-hydroxybutyric. AAPS J, 10(1), 56-69.

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SAWYER, JOSHUA

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Alumni Affairs

The support of our alumni is invaluable. Their efforts and assistance in student programming, community advocacy and advancement of research and practice carry on a proud tradition in the SoPPS.

2008-09 Alumni Association Activities

2008 alumni reunion activities were held at the Grand Island Holiday Inn. The classes of 1953, 1958, 1988 and 1998 were recognized for their milestone anniversary years. James Buckley, Class of 1953, addressed all alumni attendees, and our P4 class, the Class of 2009, was welcomed into the association via special candlelight ceremony.

The American Society of Health System Pharmacists mid-year meeting is one the association's national outreach meetings. Our 2008 ASHP alumni reception was held in Orlando and was attended by more than 110 alumni and guests. We remind all ASHP attendees to look for the UB reception at all ASHP meetings. It is a great way to reconnect with your alumni colleagues, faculty and students from the SoPPS.

The school's annual 2009 awards ceremony recognized the alumni association's premier award recipients: Mario Rocci Jr. '76, '81, Willis G. Gregory Award recipient, and Tammie Lee Demler '92, '02, Orville C. Baxter Memorial Award recipient. Both recipients represent the highest caliber of research and practice, and the SoPPS is proud to recognize these outstanding professionals.

One of the primary missions of the alumni association is support of students. In 2008-09, the association awarded six grants to PharmD students in financial need. Congratulations to the following six students who were awarded \$500 grants: P4 students Shetall Desai, Jonathan Dittmar, Erica Herman and Paul Stoyell; P3 student Christopher Miller; and P2 student Christina Hall

The alumni association values the important role it plays in the school and its ability to bring alumni colleagues together through various activities and programs.





2009 AWARDS CEREMONY

2008 CLASS REUNION

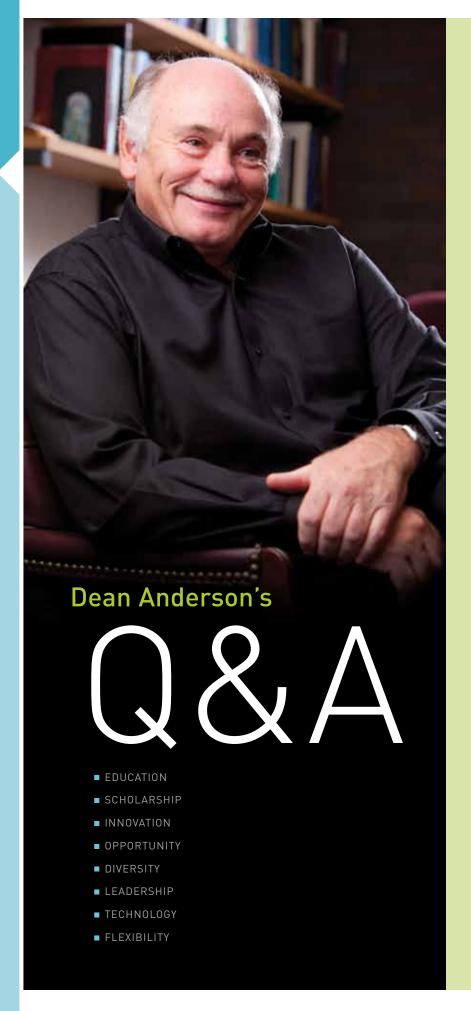
Development

The school recently broke ground on its future home,
Kapoor Hall, named in honor of John N. Kapoor '72,
whose total giving of \$10.8 million inspired several
major donations this year in support of the facility,
including gifts from Ken Yee '75; Steve Giroux '81; and
Robert Miller '59, all of which funded patient assessment
and counseling rooms. Located on the South Campus,
Kapoor Hall will unite the school with the other UB
health sciences schools that comprise the Academic
Health Center: Dental Medicine, Medicine, Nursing, and
Public Health and Health Professions. Once the pharmacy
school's move to the South Campus is completed in 2012,
it will represent its return to the City of Buffalo, where
the school—the university's second-oldest entity after the
medical school—was founded more than 120 years ago.

Other highlights for the school during 2008-09 included:

- Surpassing its \$2.3 million commitment goal by securing \$2,520,852 in commitments.
- Collecting a total of \$2,353,700 from 677 donors.
- Receiving gifts from 108 donors who increased the amount they had given the previous fiscal year.
- Reaching an alumni-participation rate of 19.4 percent, matching last year's giving rate, which was the highest of the UB health sciences schools and second highest of all UB schools.
- Welcoming eight new members to the Willis G.Gregory Society, bringing the total to 68 members.

As the only pharmacy school in the State University of New York system, we will continue to offer the highest-quality education and opportunities to our students as we look forward to our future in Kapoor Hall. You are an integral part of that future and we thank you for your support.



Why is alumni giving so important to the School of Pharmacy and Pharmaceutical Sciences?

Alumni support provides the critical difference in our programs. The scholarship of discovery, integration, application and teaching requires an openness to change. New programs, new ideas, new applications and new ways of integrating knowledge across disciplines present constant challenges defining the scope and breadth of our school. The critical difference provided by alumni support opens opportunities for change and growth.

What areas does the Dean's Vision Fund support? How are donors' gifts used specifically?

The Dean's Vision Fund provides support and flexibility in several areas:

Flexibility to support pioneering ideas in the form of research seed grants:

- A testing ground for new ideas.
- Support allowing new faculty members to focus on scholarship.

Flexibility to seize upon opportunities for student/faculty/staff professional development:

- Student travel to professional meetings and leadership conferences.
- Staff development to utilize emerging technology.
- Achievement awards.
- Faculty support for teaching innovations.

Flexibility to support and recognize distinguished students:

- Expansion of cultural, economic and intellectual diversity.
- Competitiveness to attract distinguished students.
- Opportunities for unique student scholarships.

Flexibility to support new technology:

- Leverage for additional funding from foundations, corporations and government agencies.
- Build new resources to enhance faculty and student recruitment.

Can you talk about the Hayes Society and what it represents?

Many alumni have made commitments in their estate planning, while others have made gifts at levels ranging from \$5,000 to several million dollars. These commitments and gifts represent a continuing legacy and example for future donors. The support provides:

- Transformational impact on the school in support of key initiatives.
- Consistent support for student scholarships.
- Support for postgraduate fellowships (post-PharmD and post-PhD).
- Support for lectureships, bringing leaders from around the world so that students, faculty and alumni can experience new ideas and approaches to research, education, clinical care and other timely topics.
- Support for thematic areas of scholarship, including endowed chairs, named professorships and named research centers.
- Support for technology to ensure the availability of state-of-the-art technology

What is the Willis G. Gregory Society?

The Willis G. Gregory Society provides a level of annual support that has grown steadily over the years. The support, whether for the Dean's Vision Fund or targeted for a specific objective, represents the largest source of annual support for the school. Society members share the school's vision for scholarship in discovery, integration, application and teaching.

How will Kapoor Hall, the new home of the pharmacy school, change the student and alumni experience?

Kapoor Hall is the first building designed specifically for education and research programs in the School of Pharmacy and Pharmaceutical Sciences. The building, designed with open spaces and light, will create a sense of community for students, faculty, staff and alumni. But more than just a community, Kapoor Hall will provide opportunities for clinical education focusing on patient care and clinical outcomes in an evolving interprofessional health care environment. It will offer a flexible research environment that promotes collaboration. Donors, inspired by the potential offered by Kapoor Hall, have committed support to name spaces within the building. The named spaces provide a donor legacy, but more importantly, they will inspire students with the contributions that individuals have made to the profession—contributions that have shaped our profession.



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Loyalty Club: \$99 & below

1886 Club: \$500-\$999

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^{*} Graduates of the Last Decade (GOLD) Willis G. Gregory Society Members Bold Names: Donors who increased their giving over the previous fiscal year

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Student Scholarship Profiles

Crimaldi-Madejski Scholarship Fund

Jill Jessmer, Class of 2010, was a small-town girl who had big plans for



college. Having grown up in Harrisville, N.Y., "a very small town in the Adirondacks," Jessmer sought a large university and chose UB because it offered

all the aspects of a bigger school: "sports teams, a music program, a variety of student organizations—but also a feeling of community." Her scholarship "has helped me with my tuition and allowed for opportunities that I would not have been able to afford," such as pharmacy conferences, where she has learned about careers and met pharmacists in leadership positions. Following graduation and completion of a residency with a focus on inpatient care, Jessmer will pursue a career in hospital pharmacy.

John Kapoor Graduate Fellowship in Pharmaceutical Sciences

Suraj G. Bhansali, a PhD student, came from Kadoli, India, to attend UB, which



he said "was easy to select because the pharmaceutical sciences department here is top-ranked and globally recognized for its pharmacokinetic/phar-

macodynamic training." He said the fellowship he received has been "tremendous" and allows him to give undivided attention to his studies and research. In addition, "it helped my parents and family back home breathe and sleep comfortably without worrying about me. After all, if I convert the expenses and fees in my native currency, the total is in the millions!" Bhansali, who has "a great passion for research," wants to work as a research scientist for a pharmaceutical company to develop new medicines. "I like to help patients and their families by dedicating my career to invent (or discover) novel therapies."

Aversano-Strozzi Scholarship Fund

Nicholas Falco, Class of 2010, earned a BS in chemistry from UB in 2005 and, having enjoyed his undergraduate years, enrolled in the pharmacy school. Receiving a scholarship helped him travel to a mid-year meeting of the American Society of Health System Pharmacists, a central gathering point for pharmacy residency programs from around the



country. Falco hopes to complete a one-year pharmacy practice residency post-graduation, then practice in an ambulatory clinic setting, "where I can

meet one-on-one with patients to go over their medication regimens and tailor them to individual needs."

Class of 2008 Scholarship

Gauri Rao, Class of 2011, already has earned a bachelor's degree in engineering and a master's degree in computer engineering. A mother of two who lives in East Amherst, she chose UB because leaving the area was not an option. She became familiar with the pharmacy school while volunteering for one of the professors, and found that "what started out as the only choice for pharmacy school was the best choice for me." The Class of 2008 Scholarship has helped her achieve her academic goals, which include rotations as part of the



introductory pharmacy practice experience and courses that have led her to become interested in clinical research in the area of oncology medica-

tion. President of the UB chapter of the American Pharmaceutical Association, Rao also is involved with the International Pharmaceutical Students Federation, for which she organized a fundraiser to provide medications to AIDS patients in Zimbabwe.

Henry A. Panasci Scholarship Fund

Nicholas Fusco, vice president of the Class of 2010, chose UB for its



excellent pharmacy program, but also because, as a native of Buffalo, it provided "a fantastic opportunity to study at a first-class insti-

tution while being close to my family and friends." His scholarship "was a tremendous aid in deferring the rising costs of college tuition." After completing a residency, Fusco would like to become a clinical pharmacist as part of an inpatient or outpatient clinical service. He also would like to teach at the university level.

UB SoPPS Golf Scholarship

Seon Jo Park, Class of 2010, from Seoul, South Korea, chose UB



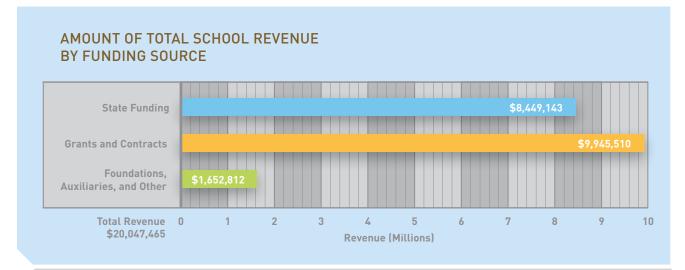
because of the stellar reputation of its pharmacy program, which "was the best of all the schools considered." The scholarship helped

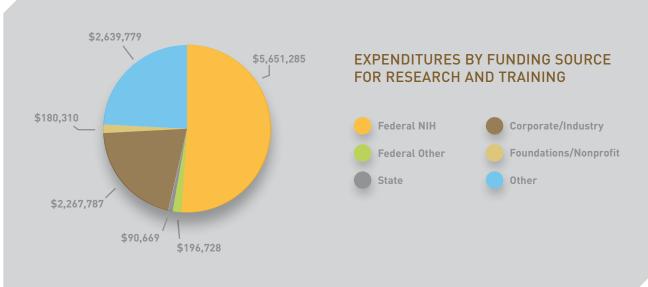
her travel to national pharmacy meetings, which "helped me broaden my perspective on pharmacy practice and my knowledge of clinical practice." She hopes to work as a resident post-graduation and is interested in several specialties, including oncology, infectious diseases, intensive care, and pediatric and emergency medicine.

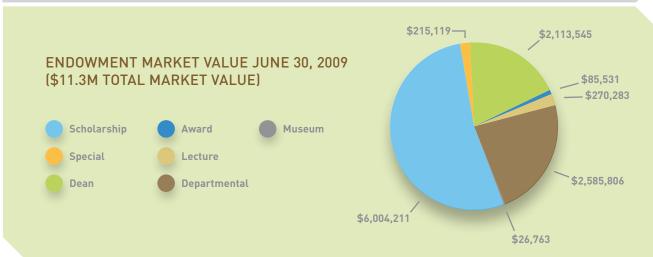
Thank you to the many donors who based scholarships and fellowships, which totaled \$375,611 during 2008-09.

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The support to achieve our goals, the security to reach for the future, and the impetus for creativity are allowed through our well-positioned financial portfolio.







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Our school-wide committees give governance and oversight to our school. The structure, composition, and charges of the school's standing committees are prescribed in the bylaws of the School of Pharmacy and Pharmaceutical Sciences.

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