

# Developing the Next Generation of Healthcare Leaders

ANNUAL REPORT 2009-10



# Message from the Dean

## Solid Foundation Prepares Strong Future

As I look back on our accomplishments during the 2009-2010 academic year, I am reminded of one of our greatest accomplishments to date – the Groundbreaking Ceremony for John and Editha Kapoor Hall. This event represents the beginning of our future as well as the focus of all we currently strive to achieve and enhance. Kapoor Hall will allow us to attain our curricular objectives, advance our research, expand collegial interactions and assist all members of the school in reaching their goals. The September 2009 Groundbreaking Ceremony laid the foundation for our occupancy of the building in the Summer of 2012.

Our PharmD students were very active in pharmacy and healthcare policy objectives. Legislatively, SPAWNY organized a very successful Pharmacy Legislative Advocacy Day where local legislators visited the school and spoke with students about state health care policy and budget. APhA-ASP tackled legislative issues with the creation of a video showing how pharmacy impacts health care reform at the local and regional levels. This was submitted to APhA as well as state and federal congressional offices. Nationally, the UB Team again took top honors with fourth place recognition at the AACP's Pruitt-Schutte Business Plan Competition. On campus, our students represented the school well by their invited participation at the UB Celebration of Academic Excellence where PharmD and pharmaceutical sciences students showcased their research work via poster presentations.

The continued high caliber work of our faculty continues to be recognized. Dan Brazeau received the UB 2010 Teaching Award, Jerry Schentag received the UB 2010 Faculty Entrepreneur Award and Brian Tsuji was the recipient of the Pfizer 2009 ASPIRE Young Investigator Award in Antibacterial Research. The faculty at large has accomplished a great deal in all areas of scholarship and has their efforts continue to be recognized here at the school as well as by their national peers. Their dedication and intellectual rigor continually reinforce our high standards of excellence.

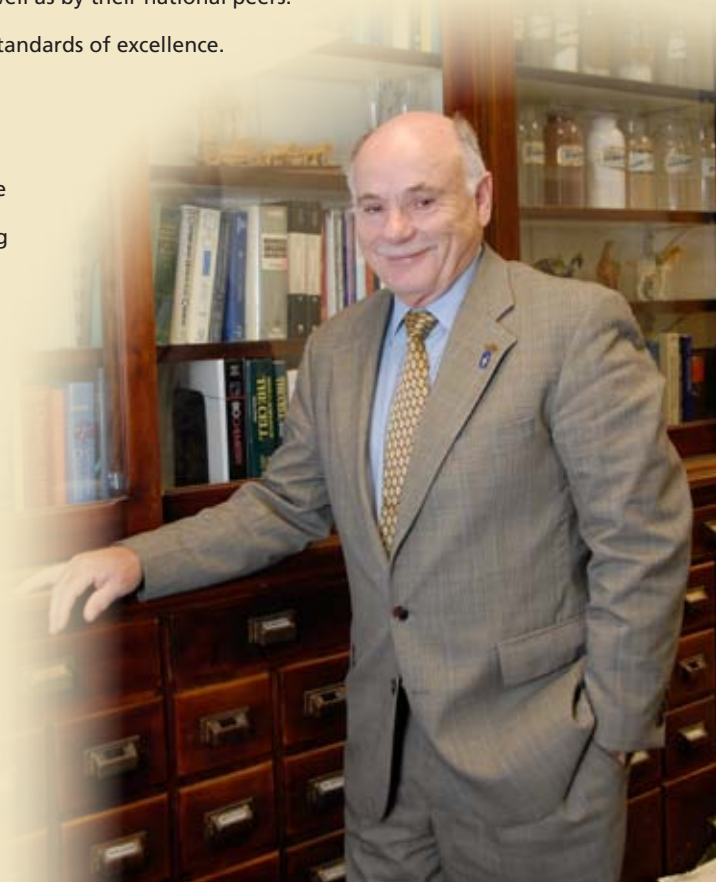
The 2009-10 accomplishments and recognitions noted throughout this annual report gave a strong foundation to our current activities. As we review budget and curricular objectives in preparation for our upcoming accreditation and move to Kapoor Hall, it is evident how our past strengths have prepared us to meet these important future events.

Warm regards,



Wayne K. Anderson

Professor and Dean



## OUR MISSION STATEMENT

The mission of the University at Buffalo School of Pharmacy 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 upon 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, 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 local, national and international leadership of the School of Pharmacy and continue it as 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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On the bench, Associate Professor Javier G. Blanco, PhD has a keen research eye fixed on genotyping as a way to reduce the risk of congestive heart failure among childhood cancer survivors.

## Bench to Bedside, Bedside to Bench


Considering more efficient clinical management of diabetes and safer regimens for curing cancer

Defining more efficient clinical management of diabetes and safer drug regimens for curing cancer are critical pursuits among today's medical practitioners.

Rising to this challenge, two UB SoPPS faculty are leading notable research that points to greater personalization of cancer and diabetes pharmacotherapy for the best overall outcomes for patients and providers.

At bedside, Clinical Assistant Professor Erin Slazak, PharmD has completed a pilot clinical study that articulates best practice for cost- and care-effective long term management of Type 2 diabetes.

On the bench, Associate Professor Javier G. Blanco, PhD has a keen research eye fixed on genotyping as a way to reduce the risk of congestive heart failure among childhood cancer survivors.



At bedside, Clinical Assistant Professor Erin Slazak, PharmD has completed a pilot clinical study that articulates best practice for cost- and care-effective long term management of Type 2 diabetes.

“ ALWAYS TELL MY STUDENTS that if we can contribute to findings that will save at least one life — that will be the achievement of a lifetime,” Blanco says.

A national of Argentina, where he earned his professional and doctorate degrees in clinical biochemistry, Associate Professor Blanco decided to enter the pharmacy field because he felt it was the best way, in the long run, of being able to help someone.

Blanco completed a post-doctoral fellowship at St. Jude Children’s Hospital under the mentorship of Dr. Mary V. Relling before joining the pharmaceutical sciences faculty in 2003. He defines himself as “a clinical biochemist involved in scientific pharmaceutical translational research.” That research path is focused on the improvement of cancer chemotherapy by understanding factors that contribute to inter-individual variability in drug response.

In 2010, at its 46th annual meeting in Chicago, the American Society of Clinical Oncology (ASCO) highlighted Blanco’s novel study on anthracycline-related cardiomyopathy in childhood cancer survivors.

The laboratory work was based on a supposition that specific DNA sequence variations in genes associated with the metabolism of anthracycline drugs impact the risk of clinical cardio toxicity.

Powerful and highly toxic, anthracycline drugs have been used successfully for more than 30 years to cure a wide variety of cancers. They are especially effective in eradicating forms of childhood cancer. “If we stop using anthracyclines we will not be able to cure up to 90 percent of the children who suffer from acute lymphoblastic leukemia, a very common childhood cancer,” Blanco explains. “If you take these drugs out of the picture, the cure rates will go down.”

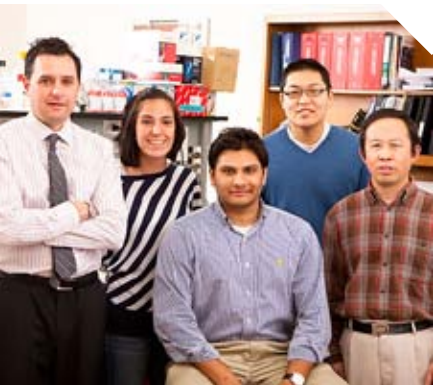
But while more people are surviving cancer for longer periods of time, chemotherapeutic use of these drugs statistically result in numerous related toxicities. These toxicities – which range from neurological to gastrointestinal to cardiologic – can present any time from two to 30 years after the patient has been cured of cancer.

Cardio toxicity, especially manifest as congestive heart failure, is a well-documented side effect of anthracyclines. And fewer than half of the patients who develop this chemotherapy-related heart failure survive for two years.

“Patients with cancer are treated with standard ‘recipes’ of

## Bench to Bedside, Bedside to Bench

Considering more efficient clinical management of diabetes and safer regimens for curing cancer



pharmaceuticals, but only a fraction of patients develop a toxic event,” Blanco explains, adding that the numbers are high enough to warrant causation research. “We thought, maybe there are some genetic factors that make these patients more prone to these kinds of toxicities. What if we can pinpoint those genetic factors in advance, before administering any therapy? That’s the whole idea. Maybe there are genetic factors that predispose people to these toxicities.”

In collaboration with the Children’s Oncology Group, of which he is a member – and working closely with Smita Bhatia, MD, MPH, Chair of the Department of Population Sciences at City of Hope National Medical Center in Duarte, California – Blanco mounted a pilot study to test this hypothesis.

The study, which began seven years ago, compared DNA genotypes of childhood cancer survivors diagnosed with heart disease to a control group

of cancer survivors without heart disease. About 80 percent of the participants began treatment after 1981; the median age of diagnosis was 7.5 years, and median advent of cardiomyopathy was 7.1 years.

“The idea is that small genetic differences between cases and control dictate this risk. But there are chances of finding differences everywhere, because the human genome is very plastic,” Blanco says. “So we put together a list of candidate polymorphisms. We narrowed it down to a list of genes that we believe are involved in the genesis of this anthracycline-related cardio toxicity.”

Using this candidate gene approach, Blanco and his research team were able to isolate a tiny gene variant related to cardio toxic risk. “That was really exciting. Everybody was happy. We ended up publishing a study,” he laughs.

“We repeated the same analysis with a different and much larger set of 165 cases with cardiomyopathy and 323 survivors without heart disease,” he continues, adding that the second analysis utilized detailed tests to diagnose cardiac disease. Further pharmacogenetic analysis showed a clear dose-response relationship between anthracycline use and cardiomyopathy among patients with certain CBR enzyme-related genotypes.

“We were able to validate our findings. And that’s what we presented at the ASCO conference last year, the validation in a totally independent cohort of cancer survivors.”

Clinical Assistant Professor Erin Slazak also is engaged in a second round of research to validate the initial findings of her clinical pharmacy services (CPS) study, which supports the positive impact that pharmacists can have in enhancing patient care while decreasing health care costs.

Slazak is a Buffalo native who earned her PharmD in 2004, followed with a UB pharmacy practice residency in ambulatory care – and is now a well-respected educator and innovative academician in the field of diabetes. Her clinical research is focused on patient-centered pharmacotherapy management of ambulatory disease states and the effect of pharmacist intervention on health care and economic outcomes.

Her current CPS research is mounted through MedSense, a pharmacist-led, patient centered pharmacotherapy program developed by UB SoPPS and Lifetime Health Medical Group, the regional primary care physician group where Slazak sees patients and oversees student and resident education. She is also the program coordinator of the MedSense Program Research Initiative, an interdisciplinary approach to care for patients with complex disease state and medication burdens, particularly those with uncontrolled Type 2 diabetes or the metabolic syndrome.

“Our program allows us to educate patients on the management of chronic disease,” Slazak says. These chronic health conditions may include hypertension and high cholesterol concomitant with Type 2 diabetes. “We educate patients not only about the condition itself and how to manage it through non-pharmacologic treatment like diet and exercise, but also how to best use their medication to get the best outcomes.”

Data for Slazak’s CPS research were collected from 2006 to 2007 from Lifetime Health patients with Type 2 diabetes. A total of 122 patients enrolled and received an initial consultation with a MedSense pharmacist. Of that number, only 50 patients had sufficient laboratory and economic data to allow for inclusion in the study.

Patient data were obtained from the initial CPS interview and from patients’ electronic medical records. Clinical and economic assessments were conducted at the six- and 12-month intervals of CPS enrollment; baseline assessments were obtained from the most recent medical data up to a maximum of six months before enrollment.

Each of the 50 patients formally enrolled in the CPS pilot study received diabetes education and pharmacotherapeutic regimen review. All clinical recommendations made to their





**“OUR PROGRAM ALLOWS US TO EDUCATE PATIENTS on the management of chronic disease,” Slazak says. These chronic health conditions may include hypertension and high cholesterol concomitant with Type 2 diabetes.**

primary care provider were documented and retrospectively reviewed to determine if they had been accepted.

“This is not necessarily novel. But I think that each time that it’s done it shows the very tangible impact that a pharmacist can have,” Slazak says. Unlike the 1996 Asheville Project, which focused on patient-centered education and provides a general benchmark for diabetes-focused clinical pharmacy programs, her study additionally targets pharmacist-physician collaboration to affect optimal clinical and economic outcomes.

“I think our recommendations were only taken by the doctors about 50 percent of the time back when we did this, because the program was very new,” she reports. “Now they take our recommendations almost 90 percent of the time.”

The preliminary results of her work – published in the Mar/Apr 2009 edition of the *Journal of the American Pharmacists Association* – demonstrated that within six months, clinical pharmacists collaborating with primary care providers were able to reduce A1C levels (the hemoglobin index control for diabetes) by an average of 1.1 percent. These clinical improvements occurred while monthly costs per patient decreased by approximately \$212, around \$2500 per year, despite nominal increases in the cost of medications prescribed.

Slazak’s study also was featured in Buffalo Business First, Medpage Today, a national online medical news site, and received inquiries from the United States Indian Health Service Corps.

“Patient centered education is key to the positive outcomes of the pilot study,” Slazak says. “Patients definitely did not get a scripted education session. They got one that was very individualized according to their medication regimen,” she explains. “It’s really important to listen, to hear what the patient can do, what they are willing to do. Very often I encounter patients who say, ‘I don’t like to cook at home’ or ‘I do not want to inject insulin.’ Then we try to work with them to tailor a regimen that will still control their diabetes and also address their concerns.”

Beyond their novel findings in clinical diabetes management and childhood cancer chemotherapy, the bench and bedside work of Blanco and Slazak broadly supports the future importance of personalized medical care.

“Our next step is a prospective study to follow survivors with the genotype variant that puts

them at risk for anthracycline-related cardio toxicity,” says Blanco, whose research is funded collaboratively through the National Institute of General Medical Science, Leukemia & Lymphoma Society and Lance Armstrong Foundation.

Ultimately, real life application of his work could mean bedside genotyping at the time of diagnosis to address possible risk of cardio toxicity after treatment. The process would assess individual risk factors, including environmental exposure, age, sex, nutritional status, additional medications and pharmacokinetic/pharmacodynamic considerations.

“The paradigm would be to develop some kind of algorithm for the physician or the nurse, I imagine a small computer program or something, that would help them tabulate all the variables and to actually enable them to suggest a different dosage or treatment,” Blanco says. “Maybe he or she will need to follow this patient. Or maybe the patient will need to be treated with a type of medication now being developed called ‘cardio protectors.’”

Slazak is preparing to collect a second data that tentatively will result in more definitive outcomes of her CPS study. Collaborating UB SoPPS colleagues include Scott Monte, Clinical Assistant Professor, Pharmacy Practice; Nicole Paolini, Clinical Assistant Professor, Pharmacy Practice; Joseph Paladino, Professor, Pharmacy Practice, and PharmD student Guari Rao.

“Lifetime Health, obviously, has a great interest in what we’re able to do with our patients,” she says. “The one thing that would be interesting, now that the doctors take the majority of our recommendations, is to see how the outcomes will change. Will we see even greater drops in glucose levels? I’m also hoping the next time around we will see decreases in blood pressure and cholesterol levels.”

She also hopes her work through MedSense will help lead to changes in pharmacy practice laws in her home state. New York currently does not support collaborative practice, which allows pharmacists to make medication according to a pre-specified protocol set up between specific physicians and pharmacists.

“In states such as ours where collaborative practice isn’t yet part of the pharmacists scope of practice, programs like MedSense are extremely important to enable us to go to our lawmakers, our decision makers, and say, ‘this is why it would be so important to have collaborative practice laws.’”

By: Jessica Thorpe, Outside the Box Communications





# 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 through innovation, creativity, input, and planning. In 2009-10, we expanded our in-person interview sessions to include a longer interview with both a faculty/staff member and an alumnus, a detailed campus tour, a patient-care oriented group activity led by our Dean's Student Ambassadors, and a student social. Our Dean's Alumni Ambassadors participated in admissions activities by attending graduate school recruitment fairs across the country, electronically reviewing admission applications, interviewing, and participating as speakers for our annual Orientation and White Coat Ceremony.

With the goal of engaging emerging markets, we introduced an active social media presence including a School Facebook Fan Page, Twitter, YouTube, and a Wiki-page. These initiatives, together 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.

For 2009, the University at Buffalo welcomed another highly talented freshman class, with 325 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 2009-2010 academic year, the median GPA for Early Assurance students accepted into the program was 3.8.

## Meet the Class of 2013

Interviewed	250	Number of States/Provinces Represented	14
Accepted	125	Females	66%
Middle 50th Percentile Science & Math GPA (Biology, Chemistry, Physics, Math)	3.5 – 3.9*	Males	34%
Middle 50th Percentile of Sum PCAT		2 years or less of college	53%
Percentile Score (excluding composite)	380 – 421*	3+ years of college	6%
In-State	75%	Bachelor's degree or higher	41%
Out-of-State	21%	Average Age	21
Foreign Citizen	4%		

*\*The middle 50th percentile reflects those between the 25th and 75th percentiles.*







## Continuing Education

### Office of Postgraduate Professional and Continuing Education

#### Fiscal Year 2009-2010

UB Programs	20
UB Certificate Programs	1
Home Study Programs	2
Cosponsored	8
<b>Total</b>	<b>31</b>

The Department of Pharmacy Practice, Office of Postgraduate Professional Continuing Education, accredits and conducts continuing pharmacy education programs in support of life-long learning. Continuing professional development offerings are held live on a local and regional scale, and web-based and homestudy on a national and international level designed to provide reviews and updates of drug classes and therapies, pharmacy law, and emerging technologies used in pharmacy practice.

Expanding the opportunity for WebEx participation, this modality offers opportunity for alumni and preceptors, specifically those out of region, to participate in SoPPS offerings from any area.

Over 400 pharmacists this year have taken part in the HIV Continuing Education Online Programs, providing varied levels of training for pharmacists seeking the knowledge and skills necessary to assess, counsel and manage the medications of patients living with HIV infection and other common co-morbidities. The basic pathophysiology of HIV and pharmacology of antiretrovirals are covered in the programs as well as contemporary issues in patient management, such as adherence, adverse drug reactions, drug interactions, and antiretroviral resistance.

The postgraduate office has brought continuing education programs to professional conferences, designed opportunity for resident offerings and accredited inter-professional activities.

The New York State Department of Health recently implemented

*(Continued on pg 8)*

#### Degrees Granted (2009-10)

PharmD	114
BS in Pharmaceutical Sciences	13
BS/MS in Pharmaceutical Sciences	3
MS in Pharmaceutical Sciences	1
PhD in Pharmaceutical Sciences	1
<b>Total</b>	<b>132</b>

#### Degree Program Enrollment (2009-10)

P1 Year	125
P2 Year	125
P3 Year	133
P4 Year	112
<b>PharmD Subtotal</b>	<b>495</b>
BS in Pharmaceutical Sciences	35
BS/MS in Pharmaceutical Sciences	4
MS in Pharmaceutical Sciences	13
PhD in Pharmaceutical Sciences	37
<b>Pharmaceutical Sciences Subtotal</b>	<b>89</b>
<b>Total Enrollment</b>	<b>584</b>

## Continuing Education

### (continued)

a Medicaid Medication Therapy Management (MTM) pilot program designed to help patients adhere to medication therapy and ultimately improve their therapeutic outcomes. This pilot program was focused on asthma in the Bronx. The UB SoPPS CE office designed and delivered trainings in New York City within this pilot.

Soon to be completed is the new online CE program registration webpage, allowing for multiple program selection, participation type, registration and payment in one transaction.

Precepting SoPPS students offers pharmacists the opportunity to gain credits and apply those credits towards continuing pharmacy educational opportunities. Additional information on becoming a preceptor can be found by accessing the school's web page ([www.pharmacy.buffalo.edu](http://www.pharmacy.buffalo.edu)) or contacting the Office of Experiential Education at (716) 645-4799.

### Continuing Education Programs and Symposia

08/18/2009	Staphylococcus aureus Continuing Education Series/Strong Memorial
09/13/2009	Medication Errors 2009 in Buffalo
10/27/2009	Staphylococcus aureus Continuing Education Series/BGH
11/04/2009	Staphylococcus aureus Continuing Education Series/RPCI
11/07/2009	Medication Errors 2009 in Albany
11/08/2009	Medication Errors 2009 in Rochester
11/15/2009	Pharmacist Educators in Ambulatory Antihypertensive Therapy Management: Prescriber Education Program
11/16/2009	Pharmacist Educators in Ambulatory Antihypertensive Therapy Management: Prescriber Education Program
12/06/2009	MRSA: New Challenges and Approaches
01/01/2010	Pharmacy-Based Immunization Delivery
01/27/2010	Cased Based Clinical Update... An Integrated Case-Based Approach
02/21/2010	Ophthalmology Part I: Self-Treatment of Ophthalmic Conditions
03/07/2010	Ophthalmology Part II: Pharmacotherapeutic Management of Primary Open Angle Glaucoma and Primary Angle-Closure Glaucoma
03/21/2010	Ophthalmology Part III: Pharmacotherapeutic Management of Dry Eye Syndrome
03/23/2010	Teaching, Learning, and the Preceptorship: A Review of the Research
03/28/2010	Pharmacy Law Update 2010 in Rochester
04/11/2010	Pharmacy Law Update 2010 in Buffalo
04/29/2010	HIV Update Symposium 2010
05/12/2010	Clinical Pharmacy Service
05/19/2010	15th Annual Comprehensive Pharmacy Law Continuing Education for Pharmacists (Day 1)
05/20/2010	15th Annual Comprehensive Pharmacy Law Continuing Education for Pharmacists (Day 2)
06/23/2010	Pharmacy-Based Immunization Delivery
Ongoing:	Online-Introductory HIV Pharmaceutical Care Specialist Program
Ongoing:	Online-HIV Pharmacotherapy CE Update
Ongoing:	Online-HIV Annual Update CE

## Residency Training Program Summary 2009-10

The Department of Pharmacy Practice maintained its commitment to providing post-graduate education through general (PGY-1) and specialty (PGY-2) residency training. During the 2009-10 academic year, our residency program consisted of four PGY-1 programs; two ambulatory care / primary care, one inpatient, and one in hospice/palliative care. Our program also offered three PGY-2 programs; HIV, psychiatry, and informatics. We are pleased to report we had two residency programs reaccredited: PGY1 Pharmacy Practice/Family Medicine at Erie County Medical Center and PGY1 Ambulatory Care Pharmacy Practice at Lifetime Health.

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 ACPE accredited CE program, and conduct a research project. The University at Buffalo School of Pharmacy sponsors an annual Residency Presentation Day, which continued to expand in 2010, and now includes multiple residency programs from the Western New York, Rochester, and Syracuse area.



## PHARMACY PRACTICE RESIDENTS/FELLOWS

Shari Allen, PharmD  
Resident  
PGY1-Psychiatry

Qusai Al-share, PharmD  
Fellow  
Drug Development/Novartis

Miranda Cole, PharmD  
Resident  
PGY1- Psychiatry

Patrick Comerford, PharmD  
Resident  
PGY1- Primary Care/Bufalo Medical Group

Natalie Dearing, PharmD  
Resident  
PGY1- Ambulatory Care/Lifetime Health

Mostafa Elgebaly, PhD  
Fellow  
Drug Development/Novartis

Cory Fominaya, PharmD  
Fellow  
Outcomes Research

Samira Garonzik, PharmD  
Fellow  
Drug Development/Novartis

Varsha Iyer PhD  
Fellow  
Drug Development/Novartis

Kiana Keyvanjah, PharmD  
Fellow  
Drug Development/Novartis

Rachelle Lubin, PharmD  
Fellow  
Drug Development/Novartis

Shelley Wilson, PharmD  
Resident  
Homecare/Hospice

## PHARMACEUTICAL SCIENCES POSTDOCTORAL FELLOWS

Sihem Ait-Oudhia  
*Mechanistic PK/IPD Modeling of Anti-cancer Drugs; Modeling of Noninvasive Images of Tumor Vasculature; Mechanism-based Disease Progression Modeling of Rheumatoid Arthritis*

Yanguang Cao  
*Mechanistic PK/IPD Modeling of Anti-diabetes Drugs*

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

Qiuying Cheng  
*Pharmacogenetics and Molecular Biology of Human and Dog Carbonyl Reductases*

Lucie Chevillard  
*Investigation of the Pharmacokinetics and Pharmacodynamics of Cocaine that Drive Addiction/Dependence and Relapse from a Quantitative System Pharmacological Perspective*

Xiaotao Duan  
*Mass Spectrometric Analysis in Clinical Proteomics and Endogenous Metabolism*

Salaheldin Hamed  
*PK/IPD/disease Modeling of Gemcitabine for More Efficacious Treatments of Pancreatic Cancer*

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 Absorption of Monoclonal Antibodies*

Hong Li  
*Population PK Modeling and Limited Sampling Strategy to estimate Mycophenolic Acid Area under the Concentration-time Curve in Hematopoietic Stem Cell Transplantation Recipients*

*Population Modeling of Long-Term Steroid-induced Bone Loss in Patients Undergoing Hematopoietic Stem Cell Transplantation*

Jun Li  
*Proteomic Investigation of Drug Therapy Responsive Proteins and their Post-translational Modifications (PTMs)*

Dongyang Liu  
*PK/IPD/PG/DIS Models for Exploration of Cytokines Role in RA Progression of Rats*

Srinidi Mohan  
*Arginine Paradox and Tolerance*

Yuzhuo Pan  
*miRNA Regulation on Drug Metabolism and Disposition*

Samuel Roiko  
*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/IPD Analysis*

Mitalee Tamhane  
*Lymphatic Uptake of Proteins by Non-invasive Fluorescence Imaging Tissue Distribution and PBPK Modeling of Proteins*

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

Bo Zheng  
*Pharmacokinetics and Pharmacodynamics of Antibody and Protein Drugs*







## Commencement Awards

### Lilly Achievement Award

Seon Jo Park

### Phi Lambda Sigma of Achievement, Chapter Member of the Year Award

Nicholas Fusco

### Michael E. Crawford Award

Katie Jaenecke

### Eino Nelson Award

Kristen Lim

### UB Pharmacy and Pharmaceutical Sciences Alumni Association Award

Brian Wetzel

Susana Eng

### David E. Guttman Award

Long Kim Nguyen

### Renee A. Dederich Award

Sierra Wolford

### Francis P. Taylor Award

Caroline Suczynski

### UB School of Pharmacy & Pharmaceutical Sciences Professionalism Award

Keith Rowe

### Robert H. Ritz Award

Madlin Faria

### National Community Pharmacists Association Outstanding Student Member Award

Kristen Gawronski

### ASP National Patient Counseling Award

Miranda Minhas

### Roger Mantsavinovs Award

Kristen Lim

### Lori Esch Memorial Award

Ashley Hughes

### Merck Award

1st Kaitlin Ganley, 2nd Sarah Davis, 3rd Kristen Lim

### Robert M. Cooper Memorial Award

Nicholas Falco

### Mylan Pharmaceutical Excellence in Pharmacy Award

Jill Jessmer

### Facts and Comparisons Award of Excellence in Clinical Communication

Jennifer Taggart

### Roy M. Barr Award

Kofi Adjei

### Western New York Society of Health-System Pharmacists Award

Kristen Gawronski

### Samuel J. Bauda Award

Jamie Kaminski

### Pharmacists' Society of the State of New York

Victoria Adams

### Natural Medicines Comprehensive Database Recognition Award

Vivian Park

### McKesson Leadership Award

Keith Rowe

### TEVA Pharmaceuticals USA Outstanding Student Award

Brian Wetzel

### Margaret C. Swisher Memorial Award

Dong Liu

### A.B. Lemon Memorial Award

Nicholas Fusco

### ASP Certificate of Recognition

Miranda Minhas

### Applied Pharmacotherapy Professional Experience Program Award

Sonia Sawkar

### Ambulatory Care Professional Experience Program Award

Amy Colby

### Pharmacists' Association of Western New York Student Leadership Award

Lisa Lederhouse

### Excellence in Pharmacogenomics Award

Madlin Faria

### Katherine Doyle Memorial Award

Natalie Travagliato

### Kelli Jordan Memorial Award

Charles Venuto

### The Outstanding Graduating Senior Award in Pharmaceutical Sciences

Amy Doty

### Excellence in Teaching Award

Peter Brody, PharmD  
Clinical Assistant Professor

## Student Supporters

The following supporters have provided generous funding for the educational training of pharmacy postgraduate residents and fellows, as well as trainees in all levels for pharmaceutical sciences programming.

### Pharmaceutical Sciences

#### PHD STUDENTS

#### Eli Lilly & Co. Fdtn.

Chao Xu

#### Genentech Bioncolgy

Jun Wang

#### Johnson & Johnson

Wei Gao

#### Merck & Co.

Xiling Jiang

#### Pfizer, Inc.

Lubna Abuqayyas

Jing Fang

Melanie Felmlee

Dipak Pisal

#### Schering Corp.

Yang He

#### Daiichi Sankyo, Inc.

Anson Abraham

#### POSTDOCTORAL

#### ASSOCIATES/FELLOWS:

#### Pfizer, Inc.

Sihem Ait-Oudhia

Yanguang Cao

Wei Ji

Indrajeet Singh

#### Hoffman LaRoche

Salaheldin Hamed

#### Center for Protein

#### Therapeutics

(Genentech, Lilly, Roche, Merck, Pfizer, Abbott)

Laboratory for Protein Therapeutics (Novartis)

Shang-Chiung Chen

John Harrold

Leonid Kagan

Dongyang Liu

Mitalee Tamhane

Fang Wu

Bo Zheng

### Pharmacy Practice

#### PHARMACY POST GRADUATE RESIDENTS AND FELLOWS

#### Lifetime Health Medical Group

Natalie Dearing

#### Buffalo Medical Group

Patrick Comerford

#### Novartis

#### Pharmaceuticals

Qusai Al-share

Varsha Iyer

Rachelle Lubin

Samira Merali

Mostafa Elfebaly

Kiana Keyvanjah

## Who's Who Among Students in American Universities and Colleges

Victoria Adams

Kofi Adjei

Ann Andrasik

Kirsten Butterfoss

Susan Chang

Nicole Cieri

Annie Dinh

Philip Eisenberg

Susana Eng

Nicholas Falco

Nicholas Fusco

Kristen Gawronski

Hany Geris

Gregory Gotie

Jill Jessmer

Shirley Lau

Lisa Lederhouse

Peggy Lee

Teresa Li

Lauren Lim

Melissa Mackey

Miranda Minhas

Seon Jo Park

Vivian Park

Keith Rowe

Kari Sprout

Caroline Suczynski

Natalie Travagliato

Brian Wetzel



## Student Achievements

### 2010 Celebration of Academic Excellence Student Research Poster Presenters

Ryan Cummings  
Jorge Gallegos  
Sean Lee  
Carrie Sanborn  
Andrew Tong  
Charles Venuto  
Amy Zhou  
Jian Li Zhu

### 2010 SoPPS Student Research Poster Winners

#### BS and BS/MS

First place: Amy Doty  
Second place: Sean Le  
Third place: Jian Li Zhu

#### P3 Students

First place: Gauri Rao  
Second-place tie: Angela Mwaura & Dung Ngo

#### P4 Student

First place: Katie Jaenecke

### American Association of Colleges of Pharmacy

#### Pruitt-Schutte Business Plan Competition, 4th Place Team Members

Mike Grota, Danielle Kauffman, Miranda Minhas and Vikram Sundararaman

### American Pharmacists Association Academy of Student Pharmacists Members Develop Video Showing the Importance of Pharmacy in Health Care Reform

Drew Lambert, Michael Krajewski, Oluwa Fabiyi, Kristen Zeitler, Jamie Chin, Gauri Rao and Jason Hou

### Individual Achievements

Samuel Aitken recipient of 2010 American Association of Colleges of Pharmacy and WalMart Scholars Programs

Suraj Bhansali recipient of the American College of Clinical Pharmacology Student/Trainee Award for his abstract: "Development of Physiological Based Pharmacokinetic Model to Predict Tissue Distribution of Vascular Endothelial Growth Factor C1565"

Caitlin Carpenter recipient of the Pharmacists' Association of Western New York Owl Drugs/Donald Arthur, Sr. Entrepreneurial Scholarship

Christopher Daly recipient of the Pharmacists' Association of Western New York Golf Scholarship and is a recipient of the 2010 U.S. Public Health Service Excellence in Public Health Pharmacy Practice Award

Gertrude Chimhungwe recipient of a 2009 National Community Pharmacy Association Foundation Presidential Scholarship

Katherine DiPalo has been accepted into the Veteran's Administration VALOR Program at the Buffalo Veterans Administration Medical Center. VALOR offers a paid internship and gives qualified students the opportunity to develop clinical practice competencies under the guidance of a preceptor

Kristen Gawronski recipient of a 2009 National Community Pharmacy Association Foundation Student Chapter Outstanding Members of the Year Award

David Jacob recipient of 2010 American Association of Colleges of Pharmacy and WalMart Scholars Programs

Lindsay Rodgers recipient of the Buffalo Federation of Women Scholarship

Caitlin Turner recipient of the 2009 RX Portfolio National Achievement Award

Charles Venuto recipient of the 2010 Daniel H. Murray Professional Development Award

Kristen Zeitler selected as a member of the American Pharmacists Association- Academy of Students of Pharmacy (APhA-ASP) Policy Standing Committee. She is also the recipient of Pharmacists' Association of Western New York Howard and Bee Scholarship and the 2010 Respect, Excellence and Service in Pharmacy Student Award

## 2009-10 Degree Recipients

### Bachelor of Science in Pharmaceutical Sciences

#### September 2009

Anas Fathallah  
Mehwish Ghauri

#### February 2010

Nabeel Khan

#### June 2010

Jennifer Biernacki  
Ryan Cummings  
Amy Doty  
Matthew Franchini  
Jorge Gallegos  
Sean Guang Lee  
Jian Hui Liu  
Genki Nakamura  
Long Kim Nguyen  
Tina Tsang  
Prince Yeboah

### Bachelor of Science/ Master of Science in Pharmaceutical Sciences

#### September 2009

Diana Molano  
Jrace Rong  
February 2010  
Eun Jin Bang  
Ghislaine Ngo Mbong

#### June 2010

JiHye Lee

### Doctor of Pharmacy

#### June 2010

Victoria Adams  
Kofi Adjei  
Ann Marie Andrasik  
Monika Baltaziuk  
Sarah Bandinelli  
Anuoluwapo Bank-Oni  
Julie Bannister  
Michael Bartels  
Michael Bevilacqua  
Heather Brand  
Andrea Breyer  
Kirsten Butterfoss  
Marianne Cacia  
Katherine Carlough  
Andrea Carlson  
Susan Chang  
Queena Chen

Nicole Cieri  
Amy Colby  
Travis Dangelo  
Sarah Davis  
Anna Decolongon  
Rachel Deppas  
Nghi Dinh  
James DiNicolantonio  
Philip Eisenberg  
Susana Eng  
Nicholas Falco  
Madlin Faria  
Graziella Furnari  
Nicholas Fusco  
Joseph Gajewski  
Kaitlyn Ganley  
Kristen Gawronski  
Lisa George  
Hany Geris  
Brian Gielowski  
Gregory Gotie  
Natalie Graiver  
Gary Greco

Jennifer Gremke  
Ashley Hughes  
Jesse Imes  
Katie Jaenecke  
Kavita Jain  
Jessica Jarnot  
Jill Jessmer  
Jamie Kaminski  
Brian Kersten  
Erin Knight  
Saneel Kulkarni  
Hayley Kwiat  
Zhibin Lai  
Dechen Lama  
Tshering Lama  
Thomas Latuga  
Shirley Lau  
Lisa Lederhouse  
Christopher Lee  
Kyung Na Lee  
Peggy Lee  
Teresa Li  
Kristen Lim  
Lauren Lim  
Dong Liu  
Wing Liu  
Laurie Loedeman  
Melissa Mackey  
Miroslava Mandroshchuk  
Giuseppe Marino  
Bethany Markert  
Stephen Meyers

Christopher Miller  
Miranda Minhas  
Brett Mohorcic  
Alex Morales  
Dana Nerenberg  
Lea Nitche  
Azaliah O'Banyoun  
Emily Obrist  
Pamela Olbrych  
Seon Jo Park  
Vivian Park  
Amisha Patel  
Christopher Poon  
Brenda Queeno  
Basant Riwes  
Keith Rowe  
Sonia Sawkar  
David Seelman  
Nida Siddiqi  
Amanda Skinner  
Kari Sprout  
Brian Staiger  
Deanna Stengel  
Tiffany Stevens  
Caroline Suczynski  
Elizabeth Sutton  
Jennifer Taggart  
SiuBun Tang  
Peggy Tapia  
Christopher Terrance  
Andrew Tong  
Kim Sang Tran  
Natalie Travagliato  
Charles Venuto  
Nathaniel Wade  
Brian Wetzel  
Sierra Wolford  
Chung Wong  
Phillip Wong  
Trevor Yannace  
David Yeow  
Erica Zak

### Doctor of Philosophy in Pharmaceutical Sciences

#### September 2009

Xinning Yang

#### February 2010

Anu Krishnatry  
Urvi Telang

#### June 2010

Anson Abraham  
Dhaval Kumar Shah





# Research and Training

Create cutting edge research that enhances the body of knowledge needed for professional education, healthcare delivery, and advancement of sciences that will improve the health and wellness of the global community.

## Department of Pharmaceutical Sciences

Our department has a well established, international reputation for a tradition of excellence in teaching and research and is well positioned to expand its prowess in Pharmacokinetics, Pharmacodynamics, and Protein Therapeutics.

Moreover, the department is a leading academic institute for cutting edge research and teaching in Pharmacogenomics. The department 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 were the activities of the Center for Protein Therapeutics, directed by Dr. Joseph P. Balthasar. With additional major input from Drs. William Jusko, Marilyn Morris, and Donald Mager, and participation by several other members of the department, the Center seeks to apply our capabilities in pharmacokinetics, pharmacodynamics, protein analysis, and protein formulation, and to address major questions regarding the delivery, pharmacokinetics, and in vivo effects of protein drugs such as monoclonal antibodies. Research sites are at the Center of Excellence in Bioinformatics and Life Sciences in the medical corridor as well as in the Cooke-Hochstetter Building on the North Campus. Financial support of \$1.35 million for the third year of research and training by the Center was provided by Abbott, Boehringer-Ingelheim, Eli Lilly, Genentech, Hoffman-LaRoche, Merck, Pfizer, as well as additional related funding provided by Novartis and Amgen.

We have excellent faculty members over a range of academic levels with highly productive, largely NIH-funded research programs and some corporate support. Donations of over \$150,000 for graduate student training were provided by Eli Lilly, Daiichi Sankyo, Schering-Plough, and Amgen, and as well as continued funding of a training grant for \$500,000 to support 6 students and 4 post-doctoral fellows by Pfizer Pharmaceuticals. Dr. Robert Straubinger was successful in obtaining funding for a new LC/MS/MS Instrument to augment our bioanalytical capabilities.

An active Seminar Program was offered with over 25 presentations by local and visiting scientists. Dr. Malcolm Rowland, Professor and Dean Emeritus at the University of Manchester in the United Kingdom was selected for the 2009 *Gerhard Levy Distinguished Lectureship in Pharmaceutical Sciences*. His presentation was entitled, "Physiologically-Based Pharmacokinetics: Moving the Big Picture Forward." Other notable speakers during the academic year were: Dr. Bradley Anderson from the University of Kentucky, Dr. Doanh Tran from the FDA, Dr. Micheline Piquette from the University of Toronto, and Dr. Carol Lim from the University of Utah. The Twelfth Buffalo Pharmaceutics Symposium was held in July with great success. Alumni from the US, Europe, Japan, and Australia attended. Notable visiting speakers included: Dr. Alison Betts from Pfizer, Dr. Yuichi Sugiyama from the University of Tokyo, Dr. Jean-Michel Scherrmann from the University of Paris, Dr. Steven Hansel from Pfizer, Dr. Gordon Amidon from the University of Michigan, Dr. Lisa Benincosa from Hoffman-LaRoche, Dr. Lawrence Lesko from the FDA, Dr. YoungJin Moon from the FDA, along with several presentations by departmental faculty members, fellows, and students. Our social event at the Buffalo Zoo did not traumatize the animals too badly.

Our department faculty members were active in dissemination of our scientific accomplishments and knowledge. We had 82 research articles and book chapters published and gave 84 seminars, lectures, and research presentations at various scientific meetings, university and industrial venues.

The department offers annual courses in Pharmacokinetic-Pharmacodynamic Modeling, Protein Therapeutics, and Population Pharmacokinetic Modeling for visiting scientists from the pharmaceutical industry, academia, and the FDA. In May we were pleased to offer our 18th session of the PK/PD Modeling course. Similarly, the department offers an annual summer workshop in Molecular Genetic Methodologies for Pharmaceutical Sciences. Some of these courses are also provided on site at various pharmaceutical companies and other universities.







Dr. Joseph Balthasar received the “Outstanding Manuscript in Modeling and Simulation” Award from the American Association of Pharmaceutical Scientists in November 2009 for developing an innovative spherical tumor model to describe drug penetration. Dr. Sathy Balu-Iyer was nominated for Inventor of the Year Award in 2010 for his patents related to lipidized proteins.

The department is poised for further growth of its research and training programs. We added Dr. Jun Qu as a faculty member in the area of bioanalytics and proteomics and are seeking to expand capabilities in the areas of Protein Therapeutics, Cancer Therapeutics, and Pharmacogenomics.

## Department of Pharmacy Practice

The 2009-10 academic year was a robust and productive year for the Department of Pharmacy Practice. The teaching and research of the faculty continued to increase within the PharmD program as well as with our postgraduate training programs. Two of our residency programs underwent reaccreditation this year and the department is continually assessing all training programs to meet future accreditation needs.

Our faculty members represented the school well at many national meetings. At the 2009 American Association of Colleges of Pharmacy meeting, many faculty members attended and participated in poster presentations, seminars and group discussion topics. Drs. Gene Morse and Linda Catanzaro, along with Professor Karl Fiebelkorn, are lead authors in the development of the Business Model submission ‘Developing a Bioinformatics and Medication Management Research Network’ published by the California Pharmacists Association. Also of note was national press attention garnered by Drs. Erin Slazak and Scott Monte for their recent diabetes study showing the positive impact pharmacists have in enhancing patient care, while decreasing health care costs.

The department is proud of the continued collaboration with the New York State Department of Health. Activities have continued to grow and expand with involvement in a pilot Medication Therapy Management Program, statewide drug utilization review and a novel prescriber education program (PEP). These efforts, in collaboration with other SUNY health science units, are expected to provide much benefit to New York State Medicaid recipients and provide excellent opportunities for our faculty and students to engage in pharmacoeconomic and pharmacoinformatic scholarly activities.

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 expanded the depth and breadth of rotational opportunities for P1-P3 students and has also expanded P4 opportunities throughout the country. The implementation of new scheduling and management software has created efficiencies in rotational scheduling and reporting. Faculty Development programs continue to expand and grow.



## Faculty Grants Awarded

July 1, 2009 - June 30, 2010

### Pharmaceutical Sciences

#### Joseph Balthasar

National Heart Lung & Blood Institute (Balu-Iyer Co-PI)  
*Pharmacology and Bioengineering of New Treatments of ITP*

Multiple Sponsors

*Protein Therapeutics Consortium*

National Cancer Institute (D. Brazeau Co-PI)

*Pharmacokinetic Strategies to Optimize IP Chemotherapy*

University of Michigan

*PTD-Mediated Protein of Drug Delivery for Cancer Therapy*

#### Sathy Balu-Iyer

National Heart Lung & Blood Institute (Balthasar Co-PI)

*Development and Pharmacology of Novel Lipidic RAHF*

National Cancer Institute (Co-PI)

*Re-activating Memory T cells in Microenvironment of Human Tumors*

#### Javier Blanco

National Institute of General Medical Sciences (RO1)

*Pharmacogenetics of Human Carbonyl Reductases*

National Institute of General Medical Sciences

*ARRA: Pharmacogenetics of Human Carbonyl Reductases*

City of Hope National Medical Center

*Adverse Events After Childhood Hematologic Malignancies: Role of Genetic Susceptibility*

#### Daniel Brazeau

National Institute on Deafness and other Communication Disorders (Co-PI)

*Noise-Induced Acute Hair Cell Death*

#### Ho-Leung Fung

National Heart Lung & Blood Institute (D. Brazeau Co-PI)

*Organic Nitrate Metabolism, Tolerance and Action*

#### William Jusko

National Institute of General Medical Sciences

*Corticosteroid Pharmacokinetics and Pharmacodynamics*

National Institute of General Medical Sciences (Mager & Krzyanski Co-PI's)

*Mathematical Models in Pharmacodynamics*

Pfizer, Inc.

*Pfizer PKPD Fellowships*

NOVO Nordisk Pharmaceuticals Inc.

*Ethnic Differences in Type 2 Diabetes*

#### Donald Mager

Hoffmann LaRoche, Inc.

*Modeling of the Pharmacokinetics of TDM1 Using a Mechanism-Based Approach*

Fred Hutchinson Cancer Research Center

*Population Pharmacokinetics/Pharmacodynamics in Nonablative Stem Cell Recipients*

National Institute on Drug Abuse (Co-PI)

*Innovative Nanotherapy for Drug Addiction*

#### Marilyn Morris

National Institute on Drug Abuse

*Gamma-Hydroxybutyrate: Toxicokinetics, Toxicodynamics and Treatment Strategies*

Susan G. Komen Breast Center

*Multiple Flavonoids in the Treatment of Multidrug Resistance*

#### Jun Qu

National Heart Lung and Blood Institute (Co-PI)

*Metabolic Adaptation and Functional Recovery of Hibernating Myocardium*

Health Research Inc. (Straubinger Co-PI)

*PSA-Proteomic Analysis of RB-Associated Proteins*

National Institutes of Allergy and Infections (Co-PI)

*ARRA: Pathogenesis of Moraxella Catarrhalis in Chronic Obstructive Pulmonary Disease*

National Institutes of Allergy and Infections (Co-PI)

*Protein Arginine Methylation in Trypanosomes*

#### Murali Ramanathan

National Multiple Sclerosis Society

*Brain-Derived Neurotrophic Factor in Multiple Sclerosis*

#### Robert Straubinger

National Center for Research Resources (Fung Co-PI)

*ARRA: Circular Dichroism Spectropolarimeter with Fluorescence Acquisition and Temperature Control*

Health Research, Inc.

*CCPD-1: Proteomics and Biopharmaceutical Analysis in Support of Translational Cancer Research*

National Institute on Drug Abuse (Qu Co-PI)

*Peripheral Biomarkers of Cocaine Dependence and Relapse*

#### Aiming Yu

National Institute on Drug Abuse (Jusko & Boje Co-PI's)

*Pharmacogenetics in Indolealkylamine Metabolism and Drug Interactions*



## New Technology

Invention Disclosures	
Invention Title	Faculty Member
An Inline Urinary Monitoring Device with a Multi-Sensor Array Suitable for Continuous Monitoring of Biological Conditions Reflexive of Health and Disease	Jerome Schentag
A Method of Diabetes Treatment Using the Process of Biomarker Measurement with the System of a Supply-Side Treatment Algorithm as a Method to Provide Personalized Pharmaceutical Compositions and Dosages	Jerome Schentag
A Method of Diabetes Treatment Using the Process of Biomarker Measurement with the System of a Supply-Side Treatment Algorithm as a Method to Provide Personalized Pharmaceutical Compositions and Dosages	Scott Monte

## Pharmacy Practice

### Gayle Brazeau

Hoffman LaRoche, Inc.  
*Formulation Approaches for Minimizing Injection Site Reactions: In VIVO and in Vitro Studies*

### Alice Ceacareanu

NYS Council of Health-System Pharmacists  
*Evaluating the Prognostic Value of Adiponectin Levels in Diabetics with Breast Cancer: Role of Insulin Sensitizers*

NYS Council of Health-System Pharmacists (Dr. Alan Forrest Co-PI)  
*Diabetes Pharmacotherapy in Breast Cancer: Quo Vadis?*

NYS Department of Health  
*Modulation of Inflammatory Response by Diabetes Management in Breast Cancer Patients: a Potential Modifier of Breast Cancer Prognosis*

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 (Drs. Ma and Maponga Co-PI's)  
*Antiretroviral Pharmacology Training in Resource Poor Countries*

Social and Scientific Systems, Inc.  
*AACTG Pharmacology Laboratory*

National Institute of Allergy & Infectious Disease  
*Clinical Pharmacology Quality Assurance and Quality Control*

University of Rochester  
*Upstate New York Translational Research Network*

University of Rochester  
*Center for Experimental Therapeutics*

University of Rochester  
*Units for HIV/AIDS Clinical Trials Network*

University of Rochester  
*Units for HIV/AIDS Clinical Trials Network: Equipment*

Washington University, St. Louis  
*Neurologic Aids Research Consortium*

University of California, San Francisco (Dr. Ma Co-PI)  
*Disulfiram Interactions with HIV Medications: Clinical Implications*

### Kathleen Tornatore

National Institute Diabetes & Digestive & Kidney Disease  
 (D. Brazeau Co-PI)  
*ARRA: Genomic and Cellular Markers and Chronic Renal Allograft Function*

Novartis Pharmaceuticals Corporation  
*The Relationship of Drug Exposure and Immunodynamic Responses During Myfortic Therapy in Stable African American and Caucasian Renal Transplant Patients*

### Dr. Brian Tsuji

Monash University (Dr. Alan Forrest Co-PI)  
*Targeting MDR Hetero-Resistant Gram-Negatives: PK/IPD for Rational Combinations*

Cubist Pharmaceuticals  
*Antimicrobial Pharmacodynamics of a Novel Investigational Lipopeptide Against S. Aureus*

Pfizer Pharmaceuticals  
*Impact of Linezolid on the Accessory Gene Regulator System of Staphylococcus Aureus by Profiling Pharmacodynamics*

Albany College of Pharmacy and Health Sciences  
*Epidemiology of Vancomycin Susceptibility Phenotypes Associated with Suboptimal Clinical Outcomes Among Patients with MRSA bloodstream infections in Upstate New York*

### Robert Wahler

Community Health Foundation of WCNY  
*Medication Management for Older Adults*

Issued Patents	Faculty Member
Patent Title	Faculty Member
Method of Complexing a Protein by the Use of a Dispersed System and Proteins Thereof	Sathy Balu-lyer
Method of Complexing a Protein by the Use of a Dispersed System and Proteins Thereof	Robert Straubinger
Anti-FcRn Antibodies for Treatment of Auto/Allo Immune Conditions	Joseph Balthasar
Compositions and Methods of Preparation of Liposomal Microparticulate Il-12 for Immunotherapy	Sathy Balu-lyer





# 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, 2009 - June 30, 2010

## Pharmaceutical Sciences

### Balthasar, Joseph P.

Urva, S. R., Yang, V. C., & Balthasar, J. P. (2010). Physiologically based pharmacokinetic model for T84.66, a monoclonal anti-CEA antibody. *Journal of Pharmaceutical Sciences*, 99(3), 1582-1600.

Urva, S. R., Yang, V. C., & Balthasar, J. P. (2010). An ELISA for quantification of T84.66, a monoclonal anti-CEA antibody, in mouse plasma. *J Immunoassay Immunochem*, 31(1), 1-9.

Urva, S. R., & Balthasar, J. P. (2010). Target mediated disposition of T84.66, a monoclonal anti-CEA antibody: application in the detection of colorectal cancer xenografts. *Mabs*, 2(1), 67-72.

Garg, A., & Balthasar, J. P. (2009). Investigation of the influence of FcRn on the distribution of IgG to the brain. *AAPS Journal*, 11(3), 553-557.

Urva, S. R., Yang, V. C., & Balthasar, J. P. (2009). Development and validation of an enzyme linked immunosorbent assay for the quantification of carcinoembryonic antigen in mouse plasma. *J Immunoassay Immunochem*, 30(4), 418-427.

### Balu-Iyer, Sathy V.

Kosloski, M., Miclea, R. D., & Balu-Iyer, S. V. (2010). Role of Glycosylation in Conformational stability, activity, macromolecular interaction and immunogenicity of recombinant human Factor VIII. *AAPS Journal*, 11 2009(3), 424-31.

Themistou, E., Singh, I., Shang, C., Balu-Iyer, S. V., Alexandridis, P., & Neelamegham, S. (2010). Application of fluorescence spectroscopy to quantify shear-induced protein conformation change. *Biophysical Journal*, 97(9), 2567-76.

Simpson-Abelson, M. R., Purohit, V. S., Pang, W. M., Iyer, V., Odunsi, K., Demmy, T. L., Yakota, S. J., Loyall, J. L., Kelleher, R. J., Balu-Iyer, S. V., & Bankert, R. B. (in press). IL-12 Delivered Intratumorally by Multilamellar Liposomes Reactivates Memory T Cells in Human Tumor Microenvironments. *Clinical Immunology*, 132 2009(1), 71-82.

Balu-Iyer, S. V., Pisal, D. S., & Kosloski, M. (2010). Delivery of Therapeutic Proteins. *Journal of Pharmaceutical Sciences*, 99 2010(6), 2557-75.

Peng, A., Gaitonde, P., Kosloski, M. P., Miclea, R. D., Varma, P., & Balu-Iyer, S. V. (2010). Effect of route of administration of human recombinant Factor VIII on its immunogenicity in Hemophilia A mice. *Journal of Pharmaceutical Sciences*, 98 2009(4), 4480-84.

Rao, G., Iyer, V., Kosloski, M. P., Pisal, D. S., Middugh, C. R., & Balu-Iyer, S. V. (2010). Use of a folding model and in situ biophysical techniques rational formulation development and stability testing of monoclonal antibody therapeutics. *Journal of Pharmaceutical Sciences*, 99 2010(4), 1697-706.

Peng, A., Straubinger, R. M., & Balu-Iyer, S. V.. Phosphatidylinositol containing lipidic particle reduces inhibitor development and catabolism of factor VIII in hemophilia A mice. *AAPS J*, 2010; 12:473-81.

### Blanco, Javier

Cao, J., Gonzalez-Covarrubias, V., Straubinger, R. M., Wang, H., Duan, X., Yu, H., Qu, J., & Blanco, J. G. (2010). A rapid, reproducible, on-the-fly orthogonal array optimization method for targeted protein quantification by LC/MS and its application for accurate and sensitive quantification of carbonyl reductases in human liver. *Analyt. Chem.*, 82(7), 2680-9.

Zhang, J., & Blanco, J. G. (2009). Identification of the promoter of human carbonyl reductase 3 (CBR3) and impact of common promoter polymorphisms on hepatic CBR3 mRNA expression. *Pharmaceutical Research*, 26(9), 2209-15.

Choi, J. Y., Barlow, W. E., Hong, C. C., Blanco, J. G., Davis, W., Rae, J. M., Yeh, I. T., Hutchins, L. F., Livingston, R., Martino, S., Lyss, A. P., Osborne, K., Abeloff, M., Hayes, D. F., & Ambrosone, C. B. (2009). Nitric oxide synthase (NOS3) variants and disease-free survival among treated and untreated breast cancer patients in a SWOG Clinical Trial (S8897). *Clinical Cancer Research*, 15(16), 5258-66.

Cao J., Gonzalez-Covarrubias V., Straubinger R.M., Wang H., Duan X., Yu H., Li J., Qu J., and Blanco J.G. A Rapid,



Reproducible, on-the-fly Orthogonal Array Optimization Method for Targeted Protein Quantification by LC/MS and its Application for Accurate and Sensitive Quantification of Carbonyl Reductases in Human Liver. *Anal Chem.* 2010 Apr 1;82(7):2680-9.

Kuptsova-Clarkson N., Ambrosone C.B., Weiss J., Baer M.R., Sucheston L.E., Zirpoli G., Kopecky K.J., Ford L., Blanco J., Wetzler M., and Moysich K.B. XPD DNA Nucleotide Excision Repair Gene Polymorphisms Associated with DNA Repair Deficiency Predict Better Treatment Outcomes in Secondary Acute Myeloid Leukemia. *Int J Mol Epidemiol Genet.* 2010 Aug;1(4):278-294.

### **Brazeau, Daniel**

Brazeau, D. A., & Brazeau, G. A. (2009). Role of the genomics revolution in Pharmaceuticals.. *Laboratory Medicine*, 40, 216-266.

Coffroth, MA., Poland, D., Petrou, E., Brazeau, D., Holmberg, J. 2010. Environmental symbiont acquisition may not be the solution to warming seas for reef-building corals. *PLoS ONE* 5(10) e13258.

Krishnatry, A. S., Brazeau, D. A., & Fung, H. L. (2010). Broad Regulation of Matrix and Adhesion Molecules in THP-1 Human Macrophages by Nitroglycerin. *Nitric Oxide*, 22, 11-17.

Renzi, S. E., Brazeau, D. A., Brazeau, G. A., Hess, J., & Adsit, J. A. (2010). Student Course Evaluations with Multiple Instructors. Does Respondent Fatigue Affect Instructor Evaluations. *American Journal of Pharmaceutical Education*, 73(4), Article 57, 34.

Renzi, S. A., Sauberan, M. M., Brazeau, D. A., & Brazeau, G. A. (2009). Relationship Between Student Leadership Activities and Prepharmacy Years in College. *AM J Pharmaceutical Ed*, 72(6), Article 149.

### **Fung, Ho Leung**

Krishnatry, A. S., Brazeau, D. A., & Fung, H. L. (2010). Broad Regulation of Matrix and Adhesion Molecules in THP-1 Human Macrophages by Nitroglycerin. *Nitric Oxide*, 22, 11-17.

### **Gao, Wenqing**

Gao, W., & Dalton, J. T. (2009). Expanding the therapeutic use of androgens via selective androgen receptor modulators (SARMs). *Drug Discovery Today*, 12(5-6), 241-8.

Gao, W., & Dalton, J. T. (2009). Ockham's Razor and Selective Androgen Receptor Modulators (SARMs): Are We Overlooking the Role of 5 $\alpha$ -Reductase?. *Molecular Intervention*, 7(1), 10-13.

Pan, Y., Gao, W., & Yu, A. (2009). MicroRNAs regulate CYP3A4 expression via direct and indirect targeting. *Drug Metab Dispos*, 37(10), 2112-2117.

Kennedy, B. A., Gao, W., Huang, T., & Jin, V. X. (2009). HRTBLDb: an informative data resource for Hormone Receptors Target Binding Loci. *Nucleic Acids Research*, 10(38), D676-D681.

Gao, W. Peptide Antagonist of the Androgen Receptor. *Curr Pharm Design*, 16(9), 1106-1113.

### **Jusko, William**

Wiczling, P., Rosenzweig, M., Vaickus, L., & Jusko, W. J. (2010). Pharmacokinetics and Pharmacodynamics of a Chimeric/ Humanized Anti-CD3 Monoclonal Antibody, Otelixizumab (TRX4), in Subjects with Psoriasis and with Type 1 Diabetes Mellitus. *Journal of Clinical Pharmacology*, 50, 494-506.

Bulitta, J. B., Yang, J. C., Yohonn, L., Ly, N. S., Brown, S. V., D'Hondt, R. E., Jusko, W. J., Forrest, A., & Tsuji, B. T. (2010). Attenuation of Colistin Bactericidal Activity by High Inoculum of *Pseudomonas Aeruginosa* Characterized by a New Mechanism-Based Population Pharmacodynamic Model. *Antimicrobial Agents and Chemotherapy*, 54, 2051-2062.

Freishtat, R. J., Nagaraju, K., Jusko, W. J., & Hoffman, E. P. (2010). Glucocorticoid Efficacy in Asthma: Is Improved Tissue Remodeling Upstream of Anti-Inflammation. *Journal of Investigative Medicine*, 58, 19-22.

Khinkis, L. A., Krzyzanski, W., Jusko, W. J., & Greco, W. R. (2009). D-Optimal Designs for Parameter Estimation for Indirect Pharmacodynamic Response Models. *J Pharmacokinet Pharmacodyn*, 36, 523-529.

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## Pharmacy Practice

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### Office of the Dean

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Renzi, S. E., Brazeau, D. A., Brazeau, G. A., Hess, J., & Adsit, J. A. (2010). Student Course Evaluations with Multiple Instructors. Does Respondent Fatigue Affect Instructor Evaluations. *American Journal of Pharmaceutical Education*, 73(4), Article 57, 34.

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Kapoor Hall Groundbreaking



## Special Honors for Faculty and Staff

**Edward Bednarczyk**, clinical associate professor, appointed as Chair-elect (2010-2011) of the Clinical Sciences section of the APhA-Academy of the Pharmaceutical Research and Science.

**Daniel Brazeau**, research associate professor, recipient of the 2010 University at Buffalo Teaching Innovation Award recipient.

**Gayle Brazeau** promoted to Full Professor.

**Peter Brody**, clinical assistant professor, recipient of the 2010 SoPPS Teacher of the Year Award.

**Alice Ceacareanu**, assistant professor, appointed to the board of directors of the New York State Council of Health-System Pharmacists Research and Education Foundation and was awarded the Clinical Pharmacy Services Research Award by the New York State Council of Health-System Pharmacists.



Peter Brody

**Alan Forrest**, research professor, recipient of the Oncology One Award from the American Society of Clinical Oncology.

**Jill Hochreiter**, senior research support specialist, finalist, 2010 SoPPS Staff Member of the Year Award.

**Donald Mager**, associate professor, elected as a Fellow in the American College of Clinical Pharmacology and elected as Vice Chair, American Association of Pharmaceutical Sciences, Clinical Pharmacology and Translational Research.

**Marilyn Morris**, professor, elected Member-At-Large, American Association of Pharmaceutical Sciences and was the recipient of the Faculty Service Award, SoPPS Pharmacy Leadership Society, Beta Omicron Chapter.

**Gene Morse**, professor, appointed as Co-chair Oral HIV/AIDS Research Alliance, Oral Pharmacokinetics Focus Group and to the steering committee of the New York State Research Centers Consortium Dr. Morse was also appointed as the Associate Director of the New York State Center of Excellence in Bioinformatics and Life Sciences.

**Nicholas Norgard**, clinical assistant professor, finalist, 2010 SoPPS Teacher of the Year Award.

**Joseph Paladino**, clinical professor, elected to the Board of Directors of the Society of Infectious Disease Pharmacists.



Elizabeth Rugg, Sara Renzi, Jill Hochreiter

**Mary Pasko**, clinical associate professor, recipient of the 2010 SoPPS Pharmacy Practice Preceptor of the Year Award.

**Murali Ramanathan**, associate professor, finalist, 2010 SoPPS Teacher of the Year Award.

**Alfred Reiman**, clinical assistant professor, recipient of the Individual School Spirit Award at the 2009 American Association of Colleges of Pharmacy Annual Meeting.

**Sara Renzi**, administrative assistant, finalist, 2010 SoPPS Staff Member of the Year Award.

**Elizabeth Rugg**, senior staff assistant, recipient, 2010 SoPPS Staff Member of the Year Award

**Jerome Schentag**, professor, recipient of the 2010 University at Buffalo Faculty Entrepreneur Award.

**Christine Stumm** promoted to the Assistant Director of Admissions and also appointed Co-chair of the Newsletter Committee and Executive Board Member of the New York Association for College Admission Counseling.

**Brian Tsuji**, assistant professor, recipient of the Pfizer 2009 ASPIRE Young Investigator Award in Antibacterial Research.

**Robert Wahler**, clinical assistant professor, appointed section leader of the National Council of Hospice and Palliative Care Professionals.

# Thanks to you...

Construction on Kapoor Hall  
creates sense of community  
for students, faculty, staff and alumni

As John and Editha Kapoor Hall takes shape on the South Campus, donors have responded enthusiastically to the promise it offers students, faculty and staff. Construction on the school's new home is progressing quickly. The structure is now encased by a glass wall and the interior framework is evolving into the lecture halls, classrooms, labs, patient assessment suites and other spaces that faculty and staff will occupy in 2012.

Donors, inspired by the potential that Kapoor Hall offers the school, have committed generous support to name spaces within the building. These spaces provide donor legacies while inspiring students, who learn about alumni and friends who have made significant contributions that have shaped the profession.

Following the lead of John N. Kapoor, who has given \$10.8 million to the pharmacy school, several alumni and friends have added their support:

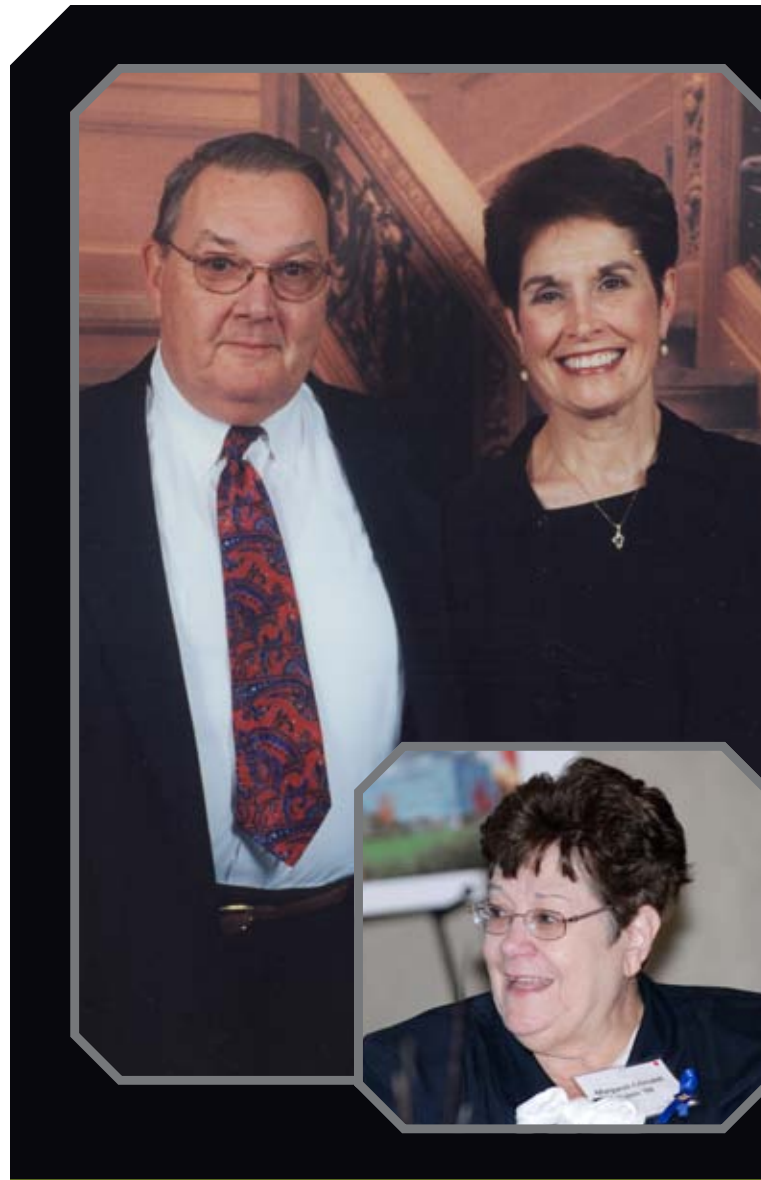
- Members of the Panasci Family—Faye Panasci, whose late husband and father-in-law, Henry A. Panasci Jr. and Henry A. Panasci Sr., were UB pharmacy graduates; her son David A. Panasci; and daughter, Beth Leventhal—are funding the building's atrium.
- Ron Isaacs '56 made a significant donation, which will fund the Ronald J. Isaacs Lecture Hall.
- Alfonse Muto '83, president of Pine Pharmacy and Home Care Center in Williamsville, New York, will fund the Pharmacy Care Learning Center classroom, which will be named after his business.
- CVS Caremark is funding a student organization suite.

Other donors funded patient assessment and counseling rooms:

- Ralph Behling '40
- Stephen '81 and Carolyn Giroux
- Margaret Hempling McGlynn '82
- Robert '59 and Sharon Miller
- Bruce '57 and Barbara Moden
- Salvi Parpia '88
- Tom '84 and Rachel Spire Smith '84
- Ken Yee '75

To read more about these donors and their gifts, visit the Giving section of the school's website: <http://pharmacy.buffalo.edu>.

Designed with open spaces and an abundance of natural light, Kapoor Hall will create a sense of community for students, faculty, staff and alumni. It is an example of practicing sustainable architecture in its reuse and renovation of an existing building, the former Acheson Hall. The 147,000-square-foot structure is targeting silver certification from Leadership in Energy and Environmental Design (LEED), a green building national rating system that provides standards for environmentally sustainable construction.



Jan '59 and Rose Mary (Crimaldi) Madejski '59  
Margaret (Crimaldi) Quinn '60

During fiscal year 2009-10, the pharmacy school again ranked second among all UB schools in terms of alumni participation. The school increased the total number of dollars raised by 28 percent, with collections totaling \$3,549,030. Additionally, the school received gifts from 82 new donors and 123 donors from the previous fiscal year increased the amount they gave this year. The school also welcomed seven new members to the Willis G. Gregory Society, for a total of 75 members.

# 'Coal Miner's Daughters' Continue Tradition of Giving

## Rose Mary Madejski and her sister, the Hon. Margaret J. Crimaldi Quinn, know firsthand the value of scholarships:

as high school students—and self-described 'coal miner's daughters'— the Crimaldi girls were thriving academically but struggling financially.

Their practical solution was to attend secretarial school after graduation, but a guidance counselor intervened on their behalf. Recognizing their abilities, she arranged for scholarships that allowed them to attend UB.

Rose Mary found another mentor at UB: Asa Bertram Lemon, then dean of the pharmacy school, who told her "You just take care of the grades, and I'll take care of the scholarships." In 1959, she earned a B.S. from the school, where she became a clinical assistant professor.

Over the course of her career, Rose Mary and her husband, Jan, owned a community pharmacy which specialized in consultant pharmacy services; she also practiced as a hospital and community pharmacist and currently works for Rite Aid. Margaret earned a B.S. from the pharmacy school in 1960, worked as a pharmacist, then returned to UB as a law student, graduating in 1970. Throughout their careers, the sisters have remained generous donors to UB and their respective schools.

Margaret, a retired administrative law judge for the Social Security Administration, established the Margaret Crimaldi Quinn Scholarship for law students with financial need. "I would not have graduated if it had not been for scholarships," she said then. "When you receive, you have to learn to give back. Otherwise people in similar circumstances will not make it."

Rose Mary and Jan Madejski established the Crimaldi-Madejski Family Scholarship in the pharmacy school, to which Rose Mary, Jan, Margaret and the Madejski children also make annual donations. The fund has supported six deserving pharmacy students, most recently Amy L. Wojciechowski, a 2012 PharmD candidate.

Amy has worked as an intern in the pharmacy of Niagara Falls Memorial Medical Center for the past several years and said that the experience "has confirmed that I want to pursue a career in hospital pharmacy."

"I enjoy the excitement of helping guide decisions regarding patients' medical therapy and seeing the positive results that come from these interventions," she said. "It is quite fulfilling to watch patients progress during their hospital stay, knowing the positive impact I have had in improving their medical condition in the hospital and their quality of life after they are discharged."

Amy said she was honored to be chosen as a recipient of the Crimaldi-Madejski scholarship, which she said "has given me the freedom to focus on my education and to spend time developing the skills that will be crucial in my future profession."

The sisters claim that they are the ones who have received much more from giving to UB, including meeting and following the careers of the students who benefit from their generosity. Inspired? Please contact the pharmacy development office at 645-3432 to discuss how you can make a difference through donating to UB.

**"RECEIVING THE CRIMALDI-MADEJSKI SCHOLARSHIP has given me the freedom to focus on my education and to spend time developing the skills that will be crucial in my future profession."**

**Amy Wojciechowski, Class of 2012**





**Class of 1937**

**Loyalty Club**  
Irwin Brock

**Class of 1938**

**Loyalty Club**  
Beatrice Noble

**Class of 1939**

**Mortar and Pestle Club**  
James Johnson  
**Loyalty Club**  
Harold Millar

**Class of 1943**

**Loyalty Club**  
Robert Yeager

**Class of 1947**

**Century Club**  
Marvin Korus  
**Loyalty Club**  
Donald Peebles

**Class of 1949**

**Loyalty Club**  
Sigmund Carsell

**Class of 1950**

**Mortar and Pestle Club**  
Sylvia Giordano

**Class of 1951**

**1886 Club**  
Florence McMahon  
**Loyalty Club**  
John Hackney Jr.  
Kathleen Monachino  
Philip Ruslink

**Class of 1952**

**Willis G. Gregory Society**  
Milner Forster  
Gerald Hooley  
Joseph Sterman  
**Mortar and Pestle Club**  
Peter Shakarjian  
**Century Club**  
Pamela Maude Emerson  
**Loyalty Club**  
Marian Barnes  
Vincent Saeli  
Walter Stanton

**Class of 1953**

**Willis G. Gregory Society**  
James Buckley  
Harold Ertman  
Alton Tower  
**Mortar and Pestle Club**  
M. Donald Pritchard  
**Century Club**  
Joseph Mroczynski  
John Oakes  
**Loyalty Club**  
David Fake  
Melville Follett Jr.  
Frank Messoro  
Nancy Schroeder

**Class of 1954**

**Loyalty Club**  
Joseph Buckley

**Class of 1955**

**Century Club**  
Carol Barr  
Irving Sultz  
**Loyalty Club**  
Bernhard Weinstein

**Class of 1956**

**Willis G. Gregory Society**  
Spencer Bickel  
Joseph Chazan  
Ronald Isaacs  
**Loyalty Club**  
Anne Allen  
Louis Bien  
Herbert Fechter  
Jerry Ross  
Frances Scheer

**Class of 1957**

**Willis G. Gregory Society**  
Bruce Moden  
**Century Club**  
Harry Shifton  
Robert Ravin  
**Loyalty Club**  
Harold Honig  
John Krawiec  
John McFarland

**Class of 1958**

**Century Club**  
Richard Polakoff  
Marlene Kieta Schmitt  
**Loyalty Club**  
Ardwin Block  
George Ciancio Sr.  
Mary Ann Janiga Krawiec  
Nelson Korus  
Kenneth Kushner  
Jack May

**Class of 1959**

**Willis G. Gregory Society**  
Jan Madejski  
Rose Mary Madejski  
Robert Miller  
Paul Myka  
Mark Rosenfeld  
Joseph Voelkl  
**1886 Club**  
Rosalie Goldstein  
**Century Club**  
Joel Goodrich  
Leonard Rosokoff  
**Loyalty Club**  
Marshall Cohen  
David Hammond  
Joan Hector  
Joseph Rogowski  
Gary Treger

**Class of 1960**

**Willis G. Gregory Society**  
Margaret Quinn  
**Century Club**  
Murray Notebaert  
Michael Salotti  
**Loyalty Club**  
Gertrude Corio  
Richard Cory

**Class of 1961**

**Willis G. Gregory Society**  
Bernhard Esch  
**1886 Club**  
Joseph Rutowski Sr.  
**Mortar and Pestle Club**  
William Schack  
**Century Club**  
Vitauts Alks  
**Loyalty Club**  
Kenneth Gerber  
Symond Jacobson  
Janice McGuigan  
Jerome Robins

**Class of 1962**

**Willis G. Gregory Society**  
Heather Ackley  
William Ackley  
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John Whitehead  
**Loyalty Club**  
Stephen Broadman

**Class of 1963**

**Loyalty Club**  
Robert Giaquinto  
Richard Reuning

**Class of 1964**

**Century Club**  
Vitauts Alks  
William Erdman  
Vijay Jain  
**Loyalty Club**  
Ira Schneider

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**Willis G. Gregory Society**  
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William Jusko  
**Century Club**  
Leo Grossman  
Chester Hejna  
Norrine McMillan  
Karen Pompe  
**Loyalty Club**  
Wayne Conrad  
Robert Hammond

**Class of 1966**

**Mortar and Pestle Club**  
Diane Mangus  
Robert Vacca  
**Century Club**  
Linda Edelman  
Alfred Gavazzi  
Raymond Napierala  
Linda Wailand  
**Loyalty Club**  
Kenneth Lackie

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**Willis G. Gregory Society**  
Thomas Quinlan  
**1886 Club**  
Gary Mosher  
**Mortar and Pestle Club**  
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**Century Club**  
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**Loyalty Club**  
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Judith Kocher  
Lawrence Kocher  
Gerald Mulcahy

**Class of 1968**

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Ronald Lamb  
Suresh Marathe  
Phil Monacelli  
**Century Club**  
Nancy Bapst  
Richard Ersing  
**Loyalty Club**  
Kenneth Gluc  
James Kowalski

Vincent Massaro  
Gail Black Proctor  
Richard Reuning  
Joel Ross  
Ronald Walnicki

**Class of 1969**

**Willis G. Gregory Society**  
Ronald Evens  
**Mortar and Pestle Club**  
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**Century Club**  
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Richard Marcklinger  
**Loyalty Club**  
Glenn Richards  
Gary Zimmerman

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**Willis G. Gregory Society**  
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**Mortar and Pestle Club**  
James Miles  
**Century Club**  
Paul R. Schwartzmyer  
**Century Club**  
Daniel J. Delecki  
Joseph Figlow  
William Glave  
Mary Grillo  
David Haynes  
Ralph Stephani

**Class of 1971**

**Willis G. Gregory Society**  
Anna Mack  
Howard Weintraub  
**1886 Club**  
Margaret Rapp  
**Mortar and Pestle Club**  
Patricia Krobeth  
**Loyalty Club**  
Michael Constantino  
Michael DiPirro  
Maxwell Grzywna  
Barbara Potenski  
Stanley Szeffler

**Class of 1972**

**Willis G. Gregory Society**  
John Kapoor  
**Mortar and Pestle Club**  
Robert Begert  
**Century Club**  
Michele Danish  
Elizabeth Murphy  
**Loyalty Club**  
Richard Klenk  
Roger Meyers

## Class of 1973

### **Mortar and Pestle Club**

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Paul Lipinoga  
Susan Marrano

### **Century Club**

Jeffrey Chase  
Gerald Senese Sr.

### **Loyalty Club**

Philip Carcione  
John Frischholz  
Frank Labarge  
Thomas Nealon  
Jerald Passer  
Beth Resman-Targoff  
Robert Wagner

## Class of 1974

### **Willis G. Gregory Society**

George Lasezkay

### **Mortar and Pestle Club**

Wendy Pritchard

### **Century Club**

Vitauts Alks  
Susan Bell  
Theresa Chiaravalloti  
Gary Senf  
Donald Willwerth

### **Loyalty Club**

Chi-Deu Chang  
Ronald Gasbarro  
Max Hillring  
Faith Kaye  
Louis Nicosia  
Elaine Phelan  
Richard Posner  
Bruce Roche  
Algis Rudinkas  
Claudia Twist  
Patty Wilson  
Linda Zientek

## Class of 1975

### **Willis G. Gregory Society**

Chung Chu  
Jee-Young Chu  
Carol Gloff  
Wai-Yung Florence Ho  
Henry Hu  
Dan Wong  
Ken Yee

### **1886 Club**

Sue Marr  
Svein Oie

### **Century Club**

Barbara Jean Edwards  
Karen Harms  
Michael Levitt  
Jeanne Lill  
Linda Lombardi

Danny Dahying Shen

David Smith

Tarik Veysoglu

### **Loyalty Club**

Paul Bembenista  
Gerald Braun  
Stephen Turkovich  
Joseph Twist

## Class of 1976

### **Willis G. Gregory Society**

Michael Jay  
Mario Rocci Jr.

### **1886 Club**

Daniel Horn

### **Mortar and Pestle Club**

David M. Pysz  
Pauline Sit

### **Century Club**

Kathleen Cubera  
Paula Falvey  
Karen Vitacolonna Falk  
James Zahra

### **Loyalty Club**

Beth Resman-Targoff

## Class of 1977

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Susan Jay  
Linyee Shum

### **Century Club**

Vincent Andolina  
Paul Corey  
Michael Shakarjian

### **Loyalty Club**

Helen Abasute  
Lewis Barbi  
Jo Anne Giblin  
Mary Ann Hallenbeck  
Alex Harris  
Anthony Hempel  
Doreen Heppert  
Robert McLean  
Barbara McNiff  
Jacob John Utzig

## Class of 1978

### **Willis G. Gregory Society**

Karl Fiebelkorn  
George Lasezkay

### **Mortar and Pestle Club**

Kenneth Nantka  
Susan Rozek  
John Stahl

### **Century Club**

John Burgholzer  
Rosemarie Burgholzer  
John Lettieri  
Bruce Sakowitz

### **Loyalty Club**

Colleen Clifford  
Peter Gal  
Kenneth Grant  
Marcia Harris  
June Johnson  
Paul Korus  
Barbara McNiff  
Mary Nufryk  
Karen Oles

## Class of 1979

### **Willis G. Gregory Society**

Karl Donn  
Tina Fiebelkorn  
Daphen Shum

### **Mortar and Pestle Club**

F. Christopher Zusi

### **Century Club**

Catherine Cmaylo  
Beverly Combs  
Barbara Kapsiak  
Dave Lutomski  
Timothy O'Neill  
Christopher Oravetz

### **Loyalty Club**

David Caputo  
James Czajkowski  
Gary Dano  
Margaret Johnson  
Anna Mauri  
Virginia Molنتين  
Rosemary Silvestrini  
Russell Turck

## Class of 1980

### **Willis G. Gregory Society**

Gene Morse

### **Mortar and Pestle Club**

Michael Darby

### **Century Club**

Thomas Engle  
Peter Illig  
Craig Kirkwood  
Paul Kunkemoeller  
Stanley Piskorowski  
Sandra Schifano  
Thomas Streeter

### **Loyalty Club**

Kristine Banister  
Patricia Christoff  
Diana Clarke  
Kevin Connors Jr.  
Kimberly Cripps-Sutton  
James Fitzgerald  
Geoffrey E. Hill  
Sheryl Liedtke  
Kathleen McMeekin Espina  
Timothy Reed  
Sandra Zukoski

## Class of 1981

### **Willis G. Gregory Society**

Mary Anne Dannenhoffer  
Stephen Giroux  
Mario Rocci Jr.  
Michael Taylor  
Kathleen Tornatore

### **Mortar and Pestle Club**

Eugene Hughto Jr.  
Elizabeth Ludwig  
Walter Ludwig

### **Century Club**

Andrew DiLuca  
Joseph Geraci Jr.  
Ellen Rosenberg  
Ronald Schifano

### **Loyalty Club**

Adrienne Block  
Donna Carr  
Steven Chao  
Mark Costanza  
Valerie Haarmeyer  
Rita Keller  
Gregory Kriel  
Barry Martin  
Karen Quaranto  
Mary Priscilla Sedgwick

## Class of 1982

### **Willis G. Gregory Society**

Thomas Madejski  
Margaret Hempling McGlynn

### **Century Club**

Geraldine Anderson  
Karl Metzger  
Diana Richardson  
Brian White

### **Loyalty Club**

Amy Bradley  
Paul Cain  
Curtis Cranmer  
Michelle Eimer  
Jan Kublitz

## Class of 1983

### **Willis G. Gregory Society**

Joseph Balwierczak  
James Ermer  
Gene Morse  
John Rodgers

### **Mortar and Pestle Club**

Diane Bassanello  
**Century Club**  
Frank Heinrich  
Craig Kirkwood  
Harvey Lisch  
Ndubuisi Chris Nwankwo

### **Loyalty Club**

Shelley Barnes

Cecilia Cheng  
Mary Ann Chiffy-Carusu  
Barbara Fingar  
Alex Harris  
Glenn Hirtzel  
Lisa Kletter  
Mark Sinnett  
Jill Rennie Steinhoff  
Steev Sutton  
James Wattengel

## Class of 1984

### **Willis G. Gregory Society**

James Baxter  
Shang-Ying P. King  
Marilyn Morris  
Rachel Spire Smith  
Thomas Smith

### **Mortar and Pestle Club**

Edward Bednarczyk  
Elizabeth Ludwig

### **Loyalty Club**

Matthew Buehler  
Linda Ferreira  
Fernando Ferreira  
Mary Lyn Herzog  
Rosa Hill  
Kenneth Jarosz  
Marian McLaughlin  
Michael Rossi

### **Century Club**

Paul Bentley  
Nancy Bompczyk  
Gregory Chase  
John Krake  
Susan Schwalenstocker  
Robin Vancak  
Lisa Webster

## Class of 1985

### **Willis G. Gregory Society**

Jamie Baxter  
Dean Salyer

### **Mortar and Pestle Club**

Michael Dolan  
Nadia Sefein

### **Century Club**

Joseph Fayad  
Christopher Messineo  
Anne Zajicek

### **Loyalty Club**

Joseph Eppolito Jr.  
James Fenner  
Lynn Katz  
Carolyn Privitera  
Leslie Sicurella

**Class of 1986****Willis G. Gregory Society**

Brian Loucks

**Mortar and Pestle Club**Karen Whalen  
Helen Wong-Sun**Century Club**Kathleen Gondek  
Susan E. Hughes  
Kelly Moon  
Richard Moon

Sarah Ronchetti

Anita Smith

Lauren Stotz

Lynn Uber

Walter Uber

**Loyalty Club**Sharon Brewer  
Catherine Brogan  
Gregory Clark  
Karen Johnson  
Steven Kasper  
Tamara Kozlowski  
Gregory Nelson  
Julie Parker  
Michael Surin  
Colleen Swavy  
Kimberly Zammit**Class of 1987****Willis G. Gregory Society**

Mary Anne Dannenhoffer

**Century Club**Donald Handley  
Christopher Jadoch  
Pamela Jadoch  
Bill McLiverty  
Melissa Micciche  
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Lynn Irenza  
David Feldman  
Sandra Hellwig  
John Manzo  
Mark Sinnett**Class of 1988****Willis G. Gregory Society**

Linyee Shum

**Mortar and Pestle Club**

Andrea Hess

**Century Club**Wendy Longden  
Elaine Soldi**Loyalty Club**Theodore Burr  
Michelle Patricia Callahan  
Lisa CragleAnn Duquin  
Murali Gouru  
Kim Palmquist  
Evelyn Reda  
Vincent Reda  
Craig Straley  
Carolyn Tomani**Class of 1989****Willis G. Gregory Society**

Gayle Brazeau

**Century Club**Cyrus Ardan  
Thomas Goss**Loyalty Club**Sally Blackledge  
Louis Frescura  
Tammy Hayes  
Anita Leung  
Alice Nichols**Class of 1990****Willis G. Gregory Society**James Baxter  
Stacy Johnson**Mortar and Pestle Club**

Andrea Hess

**Century Club**Herman Honwai Ip  
Vicky Yen Ip  
Barbara Race  
Jennifer Thomas  
Randal Wood  
Michelle Wyant-Seelig**Loyalty Club**Karen Lee-Miu  
Karen Ann Nicosia  
Robert Wojton**Class of 1991****Mortar and Pestle Club**

Gayle Klein

**Century Club**Shaun Michael Cobb  
Joann Hilburger  
Julie Ann Hostetler  
Karen Mlodozienec  
Teresa Tantillo**Loyalty Club**Inger Darling  
Angela Farrell  
Lynn Katz  
Sheila Schiavone**Class of 1992****Willis G. Gregory Society**

Stephen Groth

**Mortar and Pestle Club**

Molly Lewis

**Century Club**Paul Badore  
Mark Jarosinski  
Annie Rodriguez  
Lisa Saubermann**Loyalty Club**Karen Conn  
Kristen Noel Czerow  
Michelle Holt-Macey  
John Macey  
Joelle Pawlicki  
Catherine Reinard**Class of 1993****Mortar and Pestle Club**Steven Hansel  
Gerald Wemple**Century Club**

Fong Tai Cheung

**Loyalty Club**Alison Louise Conroy  
Anita Dwaileebe  
Andrea Jane Fox  
Susan Hoynowski  
Marie Michele Kellner  
Katie Randall**Class of 1994****1886 Club**

Nicholas Wolfgang

**Mortar and Pestle Club**

Rebecca Bubel

**Century Club**Stefan Brand  
Abdulla Saleh  
Su Chean Ting**Loyalty Club**Brian Burns  
Robert Golden  
Christine Topolski  
Lora Walter  
Todd Walter**Class of 1995****Mortar and Pestle Club**

Joseph Sidoti

**Century Club**Jamie Belcastro  
Nicole Fiorella Keenan**Loyalty Club**

Stacey Kathleen Finazzo

**Class of 1996****Mortar and Pestle Club**Ty Andrews  
Stephan Seybolt**Loyalty Club**Daniel Benfanti  
Shreen BeshuresTimothy Fahrenholz  
Ruba Jadallah  
Mark LaQue  
Susan LaQue  
Lisa Mourat  
Michele Spence  
Doanh Tran  
Angela Sui Yee Wong**Class of 1997****Mortar and Pestle Club**

Linda Moden Andrews

**Century Club**

John DeAngelis

**Loyalty Club**Rachel Neill  
Danielle Banaszak  
Peter Gunthner  
Mindy Magee  
Haijing Mei**Class of 1998****Willis G. Gregory Society**Yu-Nien Tom Sun  
Elizabeth Theophilos**Loyalty Club**Lisa Goho  
Lucy Grad  
Michael Koncilja  
Jeffrey Olek**Class of 1999****Mortar and Pestle Club**

Judianne Sligh

**Century Club**Carrie Kennett  
Karen Seiler**Loyalty Club**Bradley Chase  
Maria Dybala  
Mindy Magee  
Haijing Mei  
Weihua Qiu  
Christine Topolski  
Lonny Winter**Class of 2000****Mortar and Pestle Club**

Judianne Sligh

**Century Club**Carrie Kennett  
Karen Seiler**Loyalty Club**Maria Dybala  
Lynne Marie Kilner  
Kimberly Zammit**Class of 2001****Century Club**Anne Huselstein  
Kevin Mills  
Kenneth Sansone**Loyalty Club**

Carrie McClintic

**Class of 2002****Willis G. Gregory Society**

Peter Brody Jr.

**Century Club**Joanne Greenia  
Jeffrey Scott**Loyalty Club**Melanie DeTone  
Ursula Hahn  
Woo-In Lee  
Kate McElwain  
Elizabeth Miles  
Joseph Miles  
Coreen Montagna  
William Prescott  
Eric Sawey**Class of 2003****Mortar and Pestle Club**

Ionut Teaca

**Century Club**

Christopher Slomba

**Loyalty Club**Annette Bird  
Julie Drake  
Katy Salerno  
Jennifer Summerville  
Virginia Tawa**Class of 2004****Century Club**Heather Marie Bissell  
Rachel Todtenhagen**Loyalty Club**Elizabeth Ornella  
Daniel Weeks**Class of 2005****Mortar and Pestle Club**Lynn Carlson  
Seana O'Mara**Century Club**David Adams  
Lori Cornue**Loyalty Club**Amanda Antonik  
SoSum Chack  
Doanh Tran

## CORPORATIONS, FOUNDATIONS AND FRIENDS

### Class of 2006

#### Loyalty Club

Amanda Erlandson  
Angela Litfin

### Class of 2007

#### Mortar and Pestle Club

Richard Lin

#### Century Club

Lisa Chaloux  
Kevin Digiacomo  
Michael Johnson  
Jared Reles  
Tyler Smith-Strutz  
Nathaniel Turck  
Stephen Webster

#### Loyalty Club

Patrick Comerford Jr.  
Kathleen Connolly  
Amit Garg  
Alison Huffman  
Lauren Maroni

### Class of 2008

#### Mortar and Pestle Club

Kavitha Bhasi  
Kaela Keluskar

#### Century Club

Rennay Britto  
Matthew Duell  
Deborah Liana  
Amanda Poworoznek  
Thomas Walsh

#### Loyalty Club

Joette Bumbalo  
Won Jin Choi  
Daniel Corcoran  
Alfonse Muto  
Jennifer Polito

### Class of 2009

#### Willis G. Gregory Society

Liliana Yohonn

#### Century Club

Kristen Pregizer  
Alyssa Reles  
Michael Schifano  
Shweta Urva

#### Loyalty Club

Shuming Chen  
Tyler Dimenna

### Class of 2010

#### Century Club

Nicholas Falco

#### Loyalty Club

Jennifer Biernacki  
Susan Chang  
Nicholas Fusco

#### Willis G. Gregory Society

##### \$1 Million and above

John & Editha Kapoor Charitable  
Foundation

##### \$250,000 - \$999,999

Hoffmann-La Roche, Inc.  
Pfizer, Inc.  
Novartis Pharmaceuticals Corporation  
Faye Panasci

##### \$100,000 - \$249,999

Amgen, Inc.  
National Multiple Sclerosis Society

##### \$50,000 - \$99,999

Astellas Pharma Global Development  
American Federation For Aging  
Research  
GPI, Inc.

Health Research, Inc.  
Kinex Pharmaceuticals, LLC  
Merck & Co., Inc.

##### \$10,000 - \$49,999

CPL Associates, L.L.C.  
Daiichi Sankyo Pharma Development, Inc.  
Susan G. Komen Breast Cancer  
Foundation

Eli Lilly and Company Foundation  
RTI International

Schering-Plough Corporation  
TDM Pharmaceutical Research, LLC  
Walgreens

##### \$5,000 - \$24,999

Alcon Laboratories, Inc.  
Allergan Pharmaceuticals, Inc.  
CVS Caremark Charitable Trust, Inc.  
CVS Pharmacy  
Gilead  
Carolyn Giroux  
Johnson & Johnson  
Sharon Miller  
Barbara Moden

Henry A. Panasci Jr. Charitable Trust  
Rite Aid Corporation

##### \$1,000 - \$4,999

American Association of Colleges of  
Pharmacy  
Wayne and Lorraine Anderson  
Sathy and Vandana Balu-Iyer  
Thomas and Maria Bardos  
Charles Beever  
Aaiampour Behzad  
Marlene Bickel

Daniel Brazeau

Erin Brody

Ruth Buckley

Community Health Foundation of  
Western and Central New York

CVS Corporation

Raymond Dannenhoffer

JoAnn Donn

Christine Gabos Ermer

Family Medicine Pharmacy, Inc.

Fillmore and Fisher Pharmacy, Inc.

Forster's Pharmacy Inc.

Ho Leung and Sun-Mi Fung

GlaxoSmithKline

George and Barbara Hole

Mary Hu

Johnson & Johnson

Margaret Jusko

Shue King

Kinney Drugs, Inc.

Gerhard and Rosalyn Levy

Sandra Madejski

McKesson Corporation

Medical Park Pharmacy, Inc.

Middleport Family Health Center

William Morris

Rozanne Myka

David and Jan Panasci

NACDS Foundation

Niagara Hospice

NYS Council of Health-System

Pharmacists

Omnicare

Donna Rocci

Rochester Drug Cooperative, Inc.

J. Rutowski Pharmacies

Sears Holdings

Shire

David and Samantha Stagney

Robert and Ninfa Straubinger

Target Stores

Mary Taylor

Wal-Mart Stores, Inc.

Anita Weintraub

William Wallace and Leigh Yates

#### 1886 Club

2121 Main Street Pharmacy, Inc.

Akron Pharmacy/Town Country Gifts

Cuba Pharmacy

Independent Health Association, Inc.

Cindy Konovitz

Anthony and Camille Passarella  
Pharmacists' Association of Western  
New York

Pharmacy First

Pharmacy Society Of Rochester

Pine Pharmacy

UB School of Pharmacy Student  
Association

#### Mortar and Pestle Club

American Express Foundation

The Ellicottville Pharmacy

GlaxoSmithKline Foundation

Holland Pharmacy, Inc.

The Medicine Shoppe

James Odom

Pfizer Foundation

#### Century Club

Akzo Nobel Inc.

Rebecca Brierley

Bristol-Myers Squibb Foundation, Inc.

Paul and Julie Bukowski

Micheal and Kathleen Cubera

Lois D'Ambrosio

J. Rutowski, Inc.

Gregory and Rosalie Madejski

Mary Madejski

Clara Ogundele

Thomas and Joan Peters

Margaret Walsh Schultz

David Soda

Stephen and Linda Young

#### Loyalty Club

Alan Adams and Kathryn Lyons

Dave Diehl

David and Julie Donohue

GE Foundation

Dennis and Diane Fischer

David and Joan Hector

Wojciech Krzyzanski

Hong Li

Harry and Anne McConnell

The Merck Company Foundation

Nicholas Pasqualino

Gary and Bernice Reynolds

Siemens Medical Solutions USA, Inc

Andrew and Bonnie Tangelos

Loius and Amy Yannello

Marc and Patricia Ziegler

#### Key:

**Willis G. Gregory Society: \$1,000 and above**

**1886 Club: \$500 - \$999**

**Mortar and Pestle Club: \$250 - \$499**

**Century Club: \$100 - \$249**

**Loyalty Club: \$99 & below**

This report includes donors who made gifts and planned gift commitments between July 1, 2009 and June 30, 2010. Every effort has been made to ensure the accuracy of the information. In the event of an error or omission, please contact the SoPPS Development Office at (716) 645-3432 so that we may update our records.



Thomas Bardos  
Allen Barnett  
Thomas Blanchard '61  
Daniel & Gayle Brazeau  
Robert '53 & Nina Doran '53

Pamela Maude Emerson '52  
Joseph Figlow '70  
Edward & Jean Frank '54  
Carol Gloff '75  
Joel Goodrich '59

Jan '59 & Rose Mary Madejski '59  
DeWitt Niles '62  
Robert Ravin '57  
Irving Sultz '55

To learn more or to notify the school of a legacy gift that you have planned, please call the development office at (716) 645-3432 or visit our web site at [pharmacy.buffalo.edu](http://pharmacy.buffalo.edu).

ENDOWED STUDENT SCHOLARSHIP AND FELLOWSHIP SUPPORT

**Aversano-Strozzi Scholarship Fund**

Lisa Lederhouse  
Brian Wetzel

**Jeannie Bauda DeMuth Scholarship**

Amy Telesz

**Robert M. Cooper Memorial Award**

Philip Basko  
Kristen Della Penna

**Crimaldi-Madejski Scholarship Fund**

Jill Jessmer

**CVS Scholarship Fund**

Megan Connaughton  
Daniel Graves  
Susan Lee  
Basant Riwes  
Scott Wilson

**X. Dave D'Ambrosio Scholarship Fund**

Dana Nerenberg

**Lyle A. Graves Scholarship**

Rachel Deppas  
Thomas Guzzino  
Christina Hall  
Jamie Kaminski  
Brian Kersten  
Tracey Nagel  
Allison Pitman  
Gabrielle Riorden

**John Kapoor Fellowship in  
Pharmaceutical Sciences**

Suraj Bhansali

**Gilbert J. Kulick Scholarship**

Grace Shyh

**Lorren Larwood Scholarship Fund**

Nicole Cieri  
Marie San Roman  
Julie Veneklas

**Francis & Edward Mayer Scholarship**

Thao Doan  
Cindy Vuong

**National Association of Chain Drug  
Stores Foundation Scholarship**

Danielle Baldwin  
Amy Colby  
Jenna Hendershot  
Dana Nerenberg

**Edward Eli Neeman Scholarship**

David Kelsey

**Cecil & Violet Newton Scholarship Fund**

Uzoamaka Atuegwu  
Amy Brightbill  
Caitlin Carpenter  
Kelly Chan  
Alexander Chu  
Nghi Dinh  
Kaitlin Ganley  
Christina Hew  
Curtis Johnston  
Yusouf Khan  
Erin Knight  
Shirley Lau  
Melissa Mackey  
Christina Manciocchi  
Peggy Mann  
Kristina Marchese  
Nicholas Mayer  
Calvin Meaney  
Megan Nelson  
Stephanie Newman  
Evelyn Nkeyasen  
Katherine Olson  
Teresa Rizzone Ebel  
Anthony Russo  
Grace Shyh  
Laura Vespi  
Sierra Wolford  
Chung Wong  
Sylvia Wong  
Jessica Wu

**Henry A. Panasci Scholarship Fund**

Nicholas Falco  
Michael Grota  
David Jacobs  
Andrew Stivers

**Copel & Max Rubenstein  
Scholarship Fund**

Monika Baltaziuk

**Women's Club Columbia College  
Scholarship Fund**

Melissa Apa  
Alexander Campos  
Josephine Cheuk  
Christopher Diehl  
Meagan Reeb

**UB School of Pharmacy and  
Pharmaceutical Sciences Golf  
Scholarship**

Nicholas Fusco  
Carolyn Hemple  
Miranda Minhas  
Gauri Rao

**UB School of Pharmacy and  
Pharmaceutical Sciences Scholarship**

Monika Baltaziuk  
Hsin-Wei Fu  
Daniel Graves  
George Nimako  
Kevin Patel  
Amy Telez

**Walgreens Scholarship**

Seon Jo Park

**Walmart Scholarship**

Ashley Smith

“OUR DONORS have given us the future by investing in Kapoor Hall.”

## The Pharmaceutical Care Learning Center

The school is entering an exciting phase of our history, with classes set to begin in 2012 in Kapoor Hall. The first facility designed specifically for the needs and growth of the school, Kapoor Hall—with its fully equipped classrooms and laboratories—offers students and faculty members many new opportunities for research and academic success.

“The move to Kapoor Hall is giving us an unbelievable opportunity to improve our curriculum,” said Patty Havard, associate professor of pharmacy practice. “Teaching students under one roof, using the newest technology and equipment, will allow us to introduce new teaching pedagogical methods and improve teaching efficiency. Efforts are under way to establish interprofessional collaborations with the other health sciences schools to enhance multidisciplinary training for our pharmacy students.”

The centerpiece of Kapoor Hall is the two-story Pharmaceutical Care Learning Center (PCLC), which provides spacious areas filled with the latest technology and equipment that further support the curriculum. Students will attend lectures in the pharmaceutical care classroom, and apply what they have learned in one of the 12 nearby patient assessment and counseling rooms, where they can practice basic clinical skills, including interviewing patients, taking blood pressures, immunization training and certifying CPR. Faculty will be able to review student progress and debrief students with the aid of video monitoring and capturing.

The PCLC also includes a model pharmacy for students to learn pharmacy best practices for managing medication distribution and caring for outpatients and inpatients. A practice laboratory will provide an area and equipment for training in basic and advanced compounding and inpatient counseling.

William A. Prescott Jr., residency director and clinical assistant professor of pharmacy practice, is working with Havard on developing a new interprofessional curriculum for the school that focuses on continuity of care for patients. Prescott agreed that the new building and the PCLC in particular will allow the faculty to use many new teaching methods.

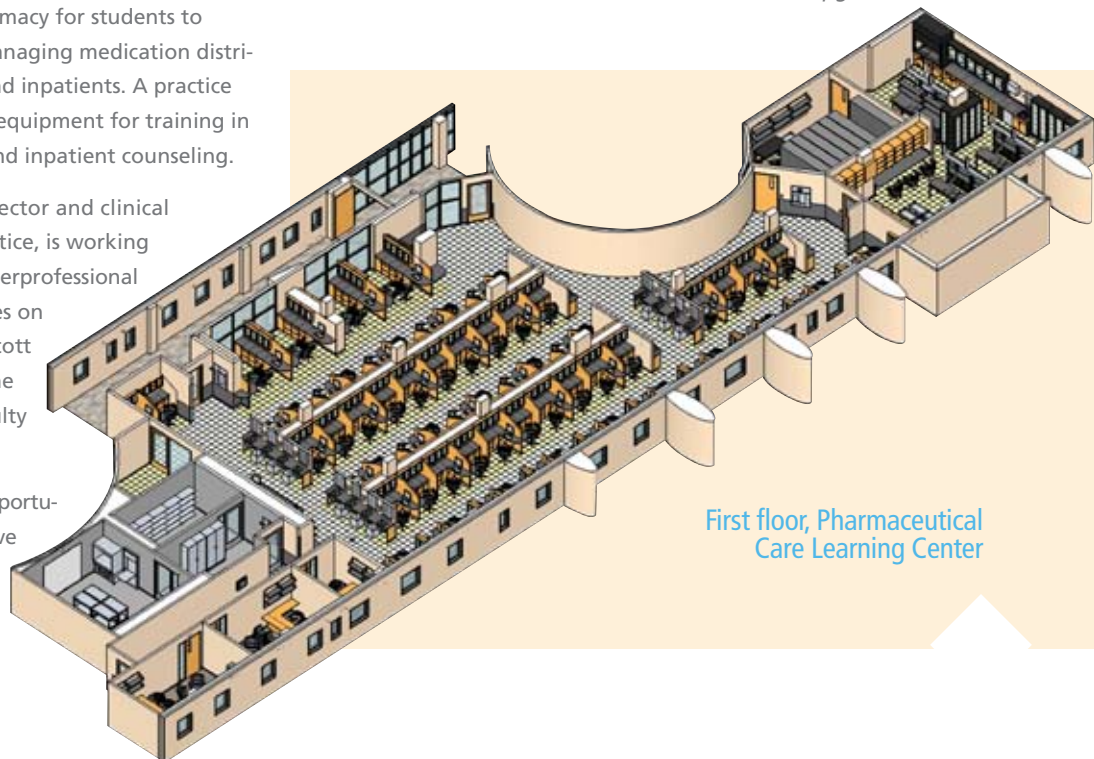
“I am most looking forward to the opportunities we will have to incorporate active learning, including simulation-based learning,” he said.

These will include simulation training in the center’s model pharmacy, where students will learn pharmacy practice procedures that take place in hospital and community settings. In the patient assessment area, students will learn how to take a patient’s history, how to assess a patient’s condition through various techniques, including diabetic foot examinations; and how to best educate patients on their health care and medication management.

Prescott said that these two learning spaces, coupled with the newly developed Behling Simulation Center in the UB medical school, “will offer our students unique learning opportunities to help them grow as professionals and leaders in patient care.”

Relocating to the South Campus will give UB Pharmacy closer proximity to the UB schools of medicine, dental medicine, public health and health professions and nursing. The close proximity to the Academic Health Center will promote the opportunity of interprofessional collaboration on student training. Havard said the curriculum will include shared training

*(Continued on pg 34)*



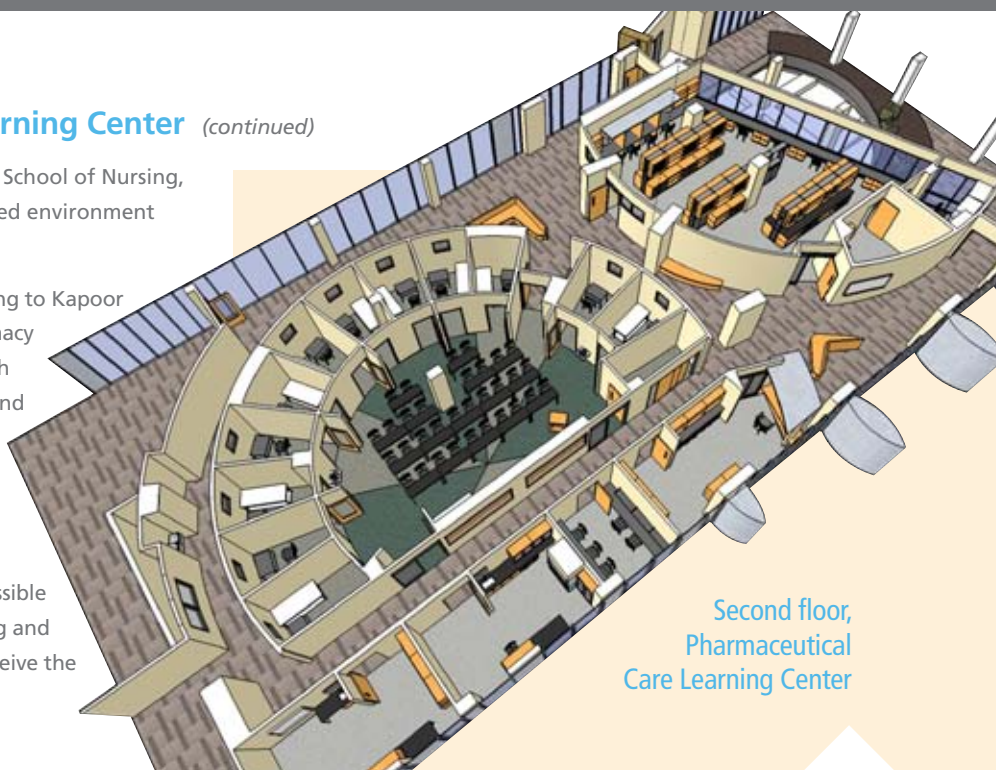
First floor, Pharmaceutical Care Learning Center

## The Pharmaceutical Care Learning Center *(continued)*

opportunities, such as joining with the UB School of Nursing, to enhance “real-life” clinical practice-based environment in the PCLC.

Dean Wayne K. Anderson noted that moving to Kapoor Hall will be a new beginning for the pharmacy school, one that was made possible through the generosity and vision of John Kapoor and the donors who followed his example and supported the new building.

“Our donors have given us the future by investing in Kapoor Hall,” Anderson said. “Through their gifts, they have made it possible for us to include several important teaching and learning spaces where our students will receive the highest quality education and training.”



Second floor,  
Pharmaceutical  
Care Learning Center

**“T**HANKS TO THEIR GENEROSITY, we can look forward to the school’s future, one in which we continue to attract the brightest students and faculty from around the world, make critical scientific discoveries and improve the quality of patient care: a future that will happen in Kapoor Hall.”



John and Editha Kapoor Hall



# Alumni Relations

The support of our alumni community has been invaluable in the various student events and outreach efforts that have contributed to the continued success of our school.

## 2009-10 Alumni Association Activities

The 2009-2010 academic year was a busy one for the Alumni Association. We were proud to recognize Donald Pritchard '53 as our 2010 Willis G. Gregory Award recipient and Joseph Rutowski '84 as our 2010 Orville C. Baxter Award recipient. Donald and Joseph were recognized for their meritorious contributions to the field of pharmacy at the school's 2010 Awards Ceremony.

2009 Reunion activities were held at the Grand Island Holiday Inn where the classes of 1954, 1959, 1984 and 1999 were recognized. Robert Miller '59, Paul Scavone '59 and Thomas Smith '84 gave heartwarming comments and reflections from their years at the school and how the education they and their classmates received prepared them for their career paths. Those who attended the 2009 Reunion received special opportunity to also be involved with the groundbreaking activities for John & Editha Kapoor Hall which also took place during reunion.

The American Society of Health-Systems Pharmacists mid-year meeting is the association's premier national outreach meeting. Our 2009 ASHP alumni reception was held in Las Vegas and

over 120 alumni and guests attended. We remind all our alumni members who attend the ASHP mid-year meeting to look for the association's annual reception. It is a great way to reconnect with your alumni colleagues, faculty and students from the school!

One of the primary missions of the association is support of students. In 2010, the association organized a Farewell Celebration reception for the PharmD Graduates of the Class of 2010 as well as for the 2010 BS and MS graduates from the Pharmaceutical Sciences. These celebrations were a great success! In 2010, the association gave six \$500 'grants-in-aid' awards to needy PharmD students as well as recognized Susana Yang '10 and Brian Wetzel '10 with awards at the 2010 Commencement in recognition of their valuable contributions to the alumni association.

The alumni association values the support it gives to the school and students as well as the important role it plays in keeping our alumni informed and connected to each other and activities here at the school.



Joseph Rutowski '84  
and Donald Pritchard '53



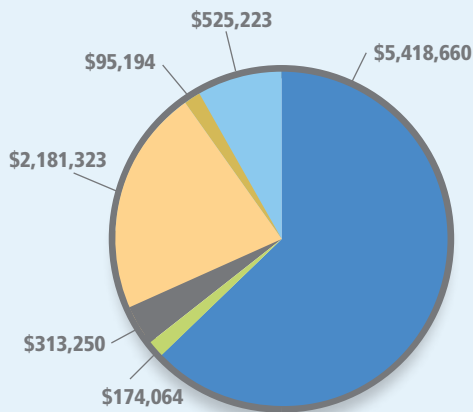
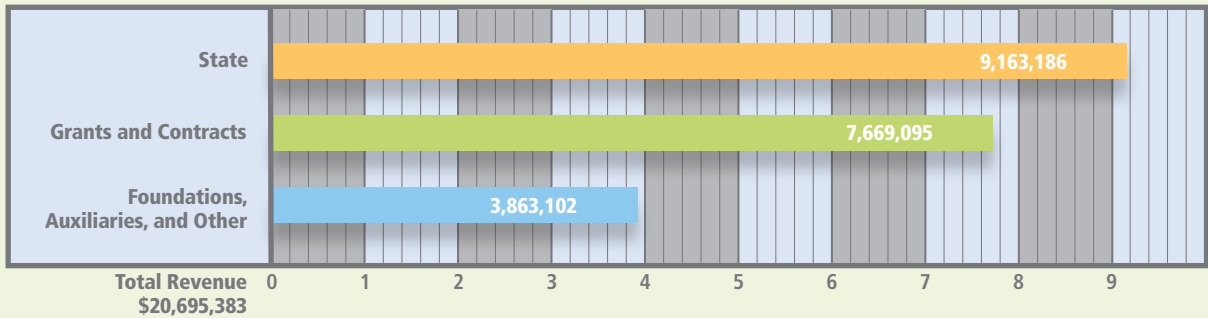
Class of 1959



# Financial Reports

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.

AMOUNT OF TOTAL SCHOOL REVENUE BY FUNDING SOURCE

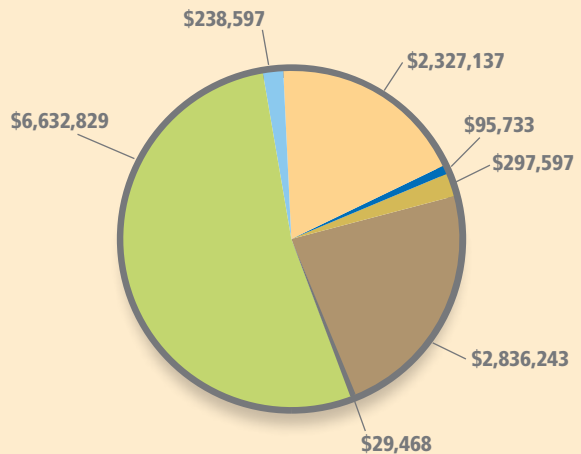


EXPENDITURES BY FUNDING SOURCE FOR RESEARCH AND TRAINING

- Federal NIH
- Corporate/Industry
- Federal Other
- Foundations/Nonprofit
- State
- Other

ENDOWMENT MARKET VALUE JUNE 20, 2010 (\$12.5M TOTAL MARKET VALUE)

- Scholarship
- Award
- Museum
- Special
- Lecture
- Dean
- Department



## School-Wide Committees

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.

### Admissions Committee

Jennifer Hess (Chair) Javier Blanco, Fred Doloresco, Karl Fiebelkorn, Gayle Brazeau, Cindy Konovitz (ex official), and William Prescott

Support: Cynthia Acara, Christine Stumm and Mark Sauberan

### Curriculum Committee

Gayle Brazeau (Chair), Karl Fiebelkorn (ex officio), Cindy Konovitz (ex officio), Javier Blanco, Peter Brody, Deborah Chiarella, Wenging Gao, Patricia Grace, Nicole Paolini Albanese, Erin Slazak, Heather Rodman (P1), Elyse Jackson (P2), Christina Hall (P3), Kirsten Butterfoss (P4)

### Executive Committee

Wayne Anderson (Chair), Edward Bednarczyk, Kathleen Boje, Gayle Brazeau, Rebecca Brierley, Peter Brody, Karl Fiebelkorn, Jennifer Hess, William Jusko, Cindy Konovitz, Candise Morris, Gene Morse, Leigh Yates

### Safety Committee

Alfred Reiman (Chair), Vicki Rink, David Soda, Lee Zak

### Student Academic Affairs Committee

Karl Fiebelkorn (Chair), Joseph Balthasar, Kathleen Boje, Nicole Paolini, William Prescott

### Tenure And Promotion

William Jusko (Co-Chair), Eugene Morse (Co-Chair), Marilyn Morris, Robert Straubinger, Kathleen Tornatore

## National Industrial Advisory Council

### Wayne Anderson

Dean  
University at Buffalo  
School of Pharmacy &  
Pharmaceutical Sciences

### Mario Rocci, Jr., '76, '81

Council Chair  
Executive Vice President  
Prevalere Life Sciences, Inc.

### Melton Affrime

Senior Vice President  
Global Clinical Pharmacology  
ICON Development Solutions

### Allen Barnett '65

Chief Executive Officer  
Kinex Pharmaceuticals, LLC

### Lisa Benincosa '93

Head, DMPK  
Hoffmann-La Roche, Inc.

### James Daly '84, '85

Senior Vice President  
Amgen, Inc.

### Karl Donn '79

Vice President,  
Drug Development  
Parion Sciences

### James Ermer '83

Senior Director,  
Clinical Pharmacology  
Shire Pharmaceuticals

### Ronald Evens '69

President  
MAPS 4 Biotec, Inc.

### Pramod Gupta

Vice President,  
Quality & Chief Scientific Officer  
Coldstream Laboratories

### Steven Hansel '93

Senior Director  
Pfizer, Inc.

### Christoph Hergersberg

Global Technology Leader,  
Biosciences  
General Electric

### George Lasezkay '74, '78

Retired, Corporate Vice President,  
Corporate Development  
Allergan, Inc.

### Margaret McGlynn '82, '83

Retired President,  
Global Vaccines and Infectious Diseases  
Merck & Co., Inc.

### Edward McNiff '75, '76, '83

Senior Vice President,  
Pharmaceutical Development  
Agenix USA Inc.

### Richard Morrison '83

Executive Director  
Merck & Co., Inc.

### David Panasci

President  
DHP Consulting, LLC

### John Rodgers '83

Executive Vice President and  
Chief Operating Officer  
Independent Health Association, Inc.

### Daniel Salazar '89

Vice President,  
Translational Medicine and  
Clinical Pharmacology  
Daiichi Sankyo Pharma

### Michael Taylor '81

President and Chief Executive Officer  
Ensemble Discovery Corporation

### Avi Yacobi '75

President  
DOLE Pharma, LLC

Office of External Affairs  
University at Buffalo  
126 Cooke Hall  
Buffalo, NY 14260-1200

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## Celebration Events

# 125th Anniversary

### Activity overview

Wednesday, 9/14/11: Continuing Education

Evening: Continuing Education Program on Hypertension

Thursday, 9/15/11, 12:30 – 1:50: Gerhard Levy  
Distinguished Lectureship in Pharmaceutical Sciences

Speaker: Leslie Benet, PhD, professor of Bioengineering and  
Therapeutic Sciences, UCSF. Topic: The Clinical Pharmaceutical  
Sciences. What Hath Levy Wrought?

Evening: Lecture Reception

Friday, 9/16/11, 5:30 – 9:00: Open House and  
Tours of the School

Key Note Speaker: Steven Sutton, PhD Class of 1983

Reunion Activities for special recognition classes from  
1956, 1961, 1986 and 2001.

Saturday, 9/17/11 Morning: South Campus Tours and  
John & Editha Kapoor Hall

Please join us for a Continental Breakfast on South Campus,  
Tours of Kapoor Hall, a Walk 'Down Memory Lane' as we  
tour Cary & Foster Halls and see the future of health care  
training at the Behling Simulation Center as well as tour  
the Health Sciences Library.

Saturday, 9/17/11 Evening: Gala Dinner Dance at  
The Buffalo Club

5:00 – 6:00 Private Cocktail Party for Reunion  
Recognition Classes: Classes of 1956, 1961,  
1986 and 2001

6:00 – 7:30 Cocktail Party for all attendees. Comments  
and presentations from Key Note Speakers  
and Guests

7:30 – 9:00 Dinner

9:00 – 12:00 Dancing and Other Programming

Sunday, 9/18/11

Social Programs at various cultural and entertainment  
venues throughout the area.

Please check <http://www.pharmacy.buffalo.edu/>  
for additional information.

UB SCHOOL OF PHARMACY &  
PHARMACEUTICAL SCIENCES

