Expanding the Horizons of Research and Healthcare
Message from the Dean

Academic year 2011-2012 was a year filled with much celebration, excitement and activity.

The school celebrated its 125th anniversary with many events, programs and celebrations. As soon as our anniversary celebrations were completed, we were immediately thrust back to reality with the arrival of our ACPE accreditation team. I am happy to report the PharmD Program is in full compliance through 2020. As 2011 closed and 2012 began, so began our last few months in Cooke and Hochstetter Halls on the North Campus. This time brought much mixed emotion from all school members: nostalgia, anxiety, excitement and exhaustion as we all began the process of ‘packing up’ 35 years of research and academic work and moving the school to Kapoor Hall on the South Campus. A project of this scale had not been done before on campus and I am proud to say, our move was seamless. John and Editha Kapoor Hall is a marvelous new building for our school and I am proud to call it ‘home’.

Our faculty and staff continued to enhance the reputation of the school via their awards, recognitions and scholarship. Leung Fung was chosen as a 2012 University at Buffalo Distinguished Professor recognizing his over 40 years of leadership in research, education and scholarship internationally as well as nationally in the pharmaceutical sciences. Murali Ramanathan and his multidisciplinary research team continue to make great strides in using complex data analysis to better understand the potential causes of multiple sclerosis. Sathy Balu-Iyer was awarded the 2011 UB Exceptional Scholar Teaching Innovation Award, received the 2011 Niagara Frontier Inventor of the Year Award as well as the 2012 Innovation in Biotechnology Award from AAPS. Also on the national level, Marilyn Morris was elected as an American Association for the Advancement of Science Fellow and was selected as President-elect to the American Association of Pharmaceutical Scientists. At the school level, Gina Prescott was recognized as the 2012 Teacher of the Year. These and many other faculty members’ contributions allow the school to keep advancing forward.

The accomplishments of our students are always a source of much pride. Our students were recognized locally, regionally and nationally. APhA-ASP was recognized as UB’s ‘Student Organization of the Year’ and received the Excellence in Academics and Service Award. Our NCPA Pruitt Schutte Business Plan Team placed 12th at the national competition and our Student Pharmacist Compounding Team placed 2nd at the MEDISCA Physical Compounding event. Student representatives, Cecilia Lon and Bridget Morse from Drs. Jusko’s and Morris’ labs received 2012 American Association of Pharmaceutical Scientists Graduate Student Awards.

This past academic year was filled with much change, but what is again evidenced is the strength and dedication of school members. Without everyone coming together as an effective team we would not have been able to achieve our reaccreditation, the revamping of our curriculum and the move to our new home, all while maintaining the highest levels of teaching, research and service to our students and valued partners. I thank all members of the school for their dedication, insightfulness and perseverance throughout the past year. I am proud to call you all my colleagues and thank you for making my years of service as Dean a pleasure...

Warm regards,

Wayne K. Anderson, PhD
Professor and Dean
MISSION

The mission of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences is to provide a world-class, high quality education to students in pharmacy practice and the pharmaceutical sciences; create and disseminate knowledge in pharmacy practice and pharmaceutical sciences via our innovative research and development activities; and provide service and improve health and wellness locally, nationally, and worldwide.

VISION

The vision of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences includes:

- To maintain a U.S. ranking as one of the top 20 Schools of Pharmacy and Pharmaceutical Sciences;
- To provide world-class education to pharmacy practice and pharmaceutical sciences students, at all academic levels including the postdoctoral level, using best-practices and evidence-based educational approaches, enabling our graduates to contribute to and advance the profession;
- To be a leader in innovative education, research, practice and service;
- To house a world renowned research enterprise that targets basic and applied research to advance basic, clinical and translational research;
- To be responsive to society’s health care needs and improve health, wellness, and health care outcomes;
- To advance pharmacy practice in new and emerging practice and care models, including interprofessional team-based models;
- To provide a collaborative and productive academic environment that promotes effective mentoring, professional growth and development, and life-long learning.

VALUES

We achieve our mission and goals within a values framework that guides our enterprise and our efforts. These include:

- Excellence in teaching, research, practice and service;
- Integrity in and accountability for our teaching, research, practice, and service;
- The highest ethical standards in our education, research, practice, and service activities, imparting these values in our graduates who will be the next generation of leaders in the profession;
- A culture that embraces diversity, inclusiveness, equity, and respect for all persons;
- Innovation and creativity to advance pharmacy practice and pharmaceutical sciences applications to improve health and health care;
- Organizational values that promote and reward critical thinking and continuous quality improvement.
At the bench: Marilyn Morris was named a fellow of the American Association for the Advancement of Science, the world’s largest general scientific society.

Bench to Bedside, Bedside to Bench
The Course from Serendipity to Serious Science

In a field firmly anchored to science and logic, Marilyn Morris, PhD and Nicole Albanese, PharmD, both say chance led them to disciplines in which each has made far-reaching contributions of new knowledge.

Morris, a Canadian national, was en route to Winnipeg from Edmonton when fate intervened. She had been representing the University of Manitoba as its centennial scholar, at a national meeting of the Canadian Pharmaceutical Association. When her inbound flight was delayed – in fact, hijacked – the airline sent a bus to take stranded passengers to dinner, where she met a pharmacist who was a faculty member at the University of Ottawa.

“There I was, going into my senior year, and he told me about a new combined master’s degree and clinical residency program there,” Morris says. “It sounded so exciting that I applied for it. And that’s where I ended up earning my master’s degree in pharmacology.”

Albanese was a high school senior working as a cashier in a grocery store chain when her career path emerged. When a technician called off one day, she was asked to fill in behind the pharmacy counter.

“I really liked it. They requested me to come back for a few weekends, and I ended up getting a permanent position behind the pharmacy counter, doing real technician work,” says the Buffalo native, who believes things happen in life for a reason. “I mean, this just definitely fell into my lap. Pharmacy wasn’t even a blip on my radar.”

Today, Morris and Albanese are breaking future ground in scientific research and clinical practice, classroom instruction and leadership in the pharmacy profession.

Morris came to UB to earn her PhD, on a scholarship after working as an assistant professor at Dalhousie University in Halifax, Canada. “The program here is highly ranked, and I was interested in working with one of the professors, Dr. Gerhard Levy,” she says. “So I came here and was very happy that he took me into his lab.”

She joined the faculty in 1985 after a postdoctoral fellowship at the University of Toronto, Canada. In 2006 she received the SUNY Chancellor’s Award for Research and Creative Activity, and from 2006 to 2012 served as the associate dean for graduate and postgraduate education in the UB Graduate School, where she established the Office of Postdoctoral Scholars.
In December 2012 Morris was named a fellow of the American Association for the Advancement of Science, the world’s largest general scientific society and publisher of the journal Science. The prestigious recognition is for “distinguished contributions to the field of pharmaceutical sciences in the area of membrane transport and its influence on pharmacokinetics and pharmacodynamics of drugs.”

She also is a fellow – and president-elect – of the American Association of Pharmaceutical Scientists (AAPS), and serves as associate editor of the AAPS Journal and on the editorial board for the Journal of Pharmaceutical Science, Pharmaceutical Research, Pharmaceutics and Drug Disposition.

Funded by the National Institute of Drug Abuse, her novel bench work examines the toxicokinetics and toxicodynamics of gamma-hydroxybutyric acid (GHB) – also known as liquid ecstasy or the “date rape drug”— to identify therapeutic strategies to prevent overdose deaths, which occur predominately in teenagers and young adults.

“We’re interested in what happens to GHB in the body. How is it getting into the brain? How is it being eliminated from the body? We’re interested in the pharmacological effects that lead to coma and death. Basically, what we’ve shown in my lab is that it causes respiratory depression that we can demonstrate in an animal model, and this is responsible for many of the deaths.”

Morris knew from her previous research that, because GHB is a small, ionized molecule, it cannot move through a lipid cell membrane: so a transport mechanism must be present for its absorption, tissue distribution and renal elimination from the body. The author of more than 160 peer-reviewed scientific papers, she has published extensively on renal transport, hepatobiliary transport and hepatic clearance models – and on the monocarboxylate transporters she has now identified as therapeutic targets for the treatment of GHB drug overdose.

“We’re targeting these transporters in order to increase the elimination of the drug from the body and prevent the drug from getting to the brain,” Morris says.

In the lab, she and her team discovered that Lactated Ringer’s solution, or L-lactate for injection, is an effective therapy for GHB overdose. Commonly found in emergency rooms, lactate is a substrate and competitive inhibitor for the monocarboxylate transporters responsible for the brain uptake and renal clearance of GHB.

In addition to preventing GHB uptake into the brain and increasing its elimination by the kidney, Morris is investigating therapies to prevent GHB from binding to certain neurotransmitters in the brain.

“Our work has demonstrated that the GABAB receptor is responsible for the respiratory depression that leads to death,” she says. “If we can give a drug that can inhibit the effects of that receptor, we can also block the effect.”

But while there is L-lactate on the market with the therapeutic potential to inhibit GHB transport through cell membranes, there are no drugs currently marketed that can block the drug from binding to the receptor in the brain responsible for respiratory depression and death.
There is no drug on the market that can do that. There is nothing being currently investigated, except by us,” Morris points out. “So we are looking at potential drug development. There is also the potential for the development of new drugs here as inhibitors of the transport by monocarboxylate transporters.”

Morris is also investigating the pharmacokinetics and pharmacodynamics of dietary components, specifically flavonoids and organic isothiocyanates, for possible therapeutic application to cancer therapy and chemoprevention.

Flavonoids and isothiocyanates are organic compounds found in apples, cranberries and wine, among other foods, and in numerous popular nutritional supplements. Isothiocyanates are present in cruciferous vegetables, such as broccoli.

“We know that flavonoids and isothiocyanates are absorbed into the body. We want to know how they affect the membrane transport of drugs,” Morris says, adding that this area of her research focuses on efflux transporters.

In the treatment of cancer these efflux transporters are responsible for multi-drug resistance. And we’ve identified a number of naturally occurring compounds that are very effective against efflux transporters. We found that a number of flavonoids do inhibit these efflux transporters, in particular, an efflux transporter called breast cancer resistance protein, which can be overexpressed in various cancers.”

In addition to the National Institute on Drug Abuse, Morris’s research has been funded by the National Institutes of Health, the Department of Defense, the National Science Foundation, Susan G. Komen for the Cure, the National Cancer Institute and other agencies. She is also an advisory committee member for the U.S. Food and Drug Administration’s Center for Drug Evaluation and Research.

“I owe any success I might have had to the talented undergraduate, PharmD and graduate students and postdoctoral fellows who have worked with me.” Besides her lab work, she teaches PharmD and graduate courses, including her own graduate course in “Drug Metabolism and Disposition.”

While Morris is working at the bench to save lives, Albanese is at beside and in the classroom defining new clinical practice outcomes and academic groundwork to improve patient care and clinical competency.

After switching her undergraduate major at Canisius College from business to health care, she earned her PharmD degree from Virginia Commonwealth University, and completed her community pharmacy residency in Richmond, Virginia.

“My job as a resident at Rite Aid was to start their clinical program. So I started a diabetes clinic,” Albanese says. “It was through my residency that I realized I wanted to be on faculty at a school of pharmacy. I really enjoyed the teaching. I had a lot of opportunity to do that as a resident and I wanted to continue that. I also wanted a clinical practice site where I could see patients.”

She joined the UB faculty in 2002: Since then, she has been recognized for scholarship and research focused on management of diabetes in an ambulatory setting, innovative approaches to the pharmacology of chronic disease, and alternative practice models focused on patient education and medication adherence.

In 2009, Albanese was named the UB SoPPS Teacher of the Year – and has been nominated again to receive the 2013 award – and in January 2013 received the Faculty Teaching Award from the UB SoPPS Department of Pharmacy Practice. Her scholarly publications include a co-authored White Paper in the American Journal of Health System Pharmacy on the role of the pharmacist as practitioner and teacher.

Since 2005, she has been counseling patients through her clinical practice, the result of collaboration among UB, Buffalo Medical Group and Independent Health.

“Before I was brought on board, these groups decided they needed a way to change physicians’ practice in an evidence-based manner. They wanted a way to educate the physicians about changing guidelines or updating medication protocol.”

“The partnership is focused on optimizing patient outcomes and represents a step toward full integration of pharmacy practice into the ambulatory care infrastructure, following the long-established hospital model,” she says.

“It is what is going to catapult pharmacists to be included in every physicians’ office, working with the patient, providing education, providing follow up, providing what we call medication therapy management.”

In the clinic setting, her core research tracks A1C markers in diabetes patients to define clinical outcomes of pharmacy intervention. “Intervention could be education, it could be medication therapy management, helping to determine the right medication at the right dose, what works for the patient and what works for their lifestyle,” explains Albanese.

She believes adherence counseling to determine if there is a deficit of patient knowledge or patient motivation, is also critical in clinical care. “When I counsel patients I barely say anything. I listen to them. I take in what they’re saying and I’ll feed it back to them to make sure we’re on the same page. Then once we’re
on the same page we can move forward and address their concerns.”

In addition to improved patient outcomes, Albanese’s research translates to measurable savings for health care providers.

“If I can decrease someone’s A1C marker by one percentage point, just one, from nine percent to eight percent, I have saved the healthcare system $820 for every year that their A1C stays at eight,” she explains.

That number is quantifiable through the partnership with Buffalo Medical Group and Independent health, which enables Albanese to track the cost of patient medical and pharmacy claims.

“If I can show somebody’s blood pressure decreased because of a recommendation I made, whether it was a dietary recommendation or a medication recommendation, then I can actually tie that to money saved throughout the entire health care system.”

At Kapoor Hall, Albanese is responsible for the introduction of an active learning model that has been incorporated into the new UB SoPPS curriculum. She was introduced to Team Based Learning (TBL), which holds students accountable for what they learn in class, at a conference in 2009 and brought the concept back to share with fellow faculty.

“Try to bring the reality of patients with a chronic disease into the classroom. I teach a lot with cases and hands-on learning,” she says when asked why she thinks her teaching style is considered innovative.

In the TBL model, which focuses also on peer-to-peer interaction, students are quizzed individually at the beginning of class, and then asked to answer the same questions in groups using a scratch-off form. After that, the instructor fields questions on the subject matter of the quiz. “If they don’t need any discussion I move on to the next thing, which might be giving them a patient case and walking them through the case.”

Team Based Learning, Albanese says, helps to better prepare students to counsel patients and manage a pharmacy in the real world. “Our first year students are getting a new curriculum, and in our new curriculum we have built TBL into our main course, which is pharmacotherapeutics.”

Her instructional originality is also evidenced in her elective “Advanced Diabetes Management,” which requires students to live connected to an insulin pump for 72 hours.

“They not only have to wear the pump, they have to utilize the pump. They basically act like a diabetic for three days. It provides students with a heightened empathy for what a patient with diabetes has to think about literally every minute of every day. They get the experience firsthand and they are all surprised at how difficult it is,” Albanese says of the class, admitting that she is unaware of its experiential instruction method at use in other pharmacy schools.

“It’s become super-popular. All the students love it and, literally, my class registration maxes out on the first day that it’s offered.”

As AAPS president-elect, Morris says that while scientific programming and scholarship support for graduate and post-doctoral students are priorities, she is focused on defining what the membership will need to oversee the changing landscape of the pharmaceutical industry.

About 20 percent of the current 11,000 AAPS membership is employed in academia; the rest work in the pharmaceutical industry, where most graduate students now find employment.

“The pharmaceutical industry used to mean the big ‘pharma’, but now 50 percent of our members are working in small, mid-sized companies. This is where things are leading,” she says.

“I’m looking at the changes that may be needed to not only prepare students for an academic career, but equip them for these new roles in the pharmaceutical industry. The mid-sized companies are very different from the large companies where many things are outsourced. So we will have to have a broader knowledge overall, and be able to understand not only just the science, but be interdisciplinary, problem-solvers and team players to move into the future.”

Albanese believes that patient-centered medical homes and new, private Accountable Care Organizations (ACOs) will radically transform pharmacy practice in the ambulatory care world.

In a patient-centered medical home, the physician collaborates with case managers, nutritionists, specialists, social service providers and pharmacists using the patient’s Electronic Medical Record (EMR) to ensure continuity and optimal outcomes.

Accountable Care Organizations allow physicians to restructure patient billing. This may include coding for medication therapy management counseling between hospital discharge and follow up with a primary care physician.

“We do this right now at Buffalo Medical Group for Independent Health patients. When we speak with patients and we find an issue, we present the issue and a solution to the primary care physician directly,” Albanese says, adding common problems include drug interactions and therapeutic duplication.

“Medication Reconciliation after hospital discharge has been shown to save the health care system a lot of money. I also have been shown to decrease re-admission rates. And this is a key area right now since there are federal funds that will be withheld if a hospital’s re-admission rates are not on target.”

– Jessica Thorpe, Outside the Box
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

Each year, the Office of Admissions and Advisement strives to continually improve and enhance our efforts to attract prospective students through innovation and planning.

Our efforts extend to professional PharmD candidates and pre-pharmacy and pre-pharmaceutical sciences undergraduate freshmen and transfers. Our helpful Dean’s Alumni Ambassadors continue to engage in admissions activities by attending graduate school recruitment fairs across the country, electronically reviewing admission applications, interviewing, and as valued speakers for our annual Orientation and White Coat Ceremony. These initiatives, together with our personalized outreach and exciting electronic and paper media presence, allow us to attract and enroll the best students.

The University and the School continued our strong tradition and welcomed another highly talented freshman class, with nearly 300 students indicating pre-pharmacy as their intended major, representing nearly 8 percent of the undergraduate incoming class. UB’s Early Assurance (EA) Program continues to offer outstanding pre-pharmacy students the opportunity to enter our PharmD professional program with a minimum GPA of 3.5. The median GPA for EA students accepted into the program for this year was 3.7.

Meet the Class of 2015

Interviewed 230
Accepted 124
Middle 50th Percentile Science & Math 3.3 – 3.7*
  GPA (Biology, Chemistry, Physics, Math)
Middle 50th Percentile of Sum 335 – 401*
  PCAT Percentile Score
  (excluding composite)
In-State 85%
Out-of-State 15%
Foreign Citizen 5%
Number of States/Provinces Represented 12
Females 60%
Males 40%
2 years or less of college 56%
Bachelor’s degree or higher 34%
Average Age 22

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

Degrees Granted (2011-12)

PharmD 115
BS in Pharmaceutical Sciences 8
BS/MS in Pharmaceutical Sciences 7
PhD in Pharmaceutical Sciences 5
Total 135

Degree Program Enrollment (2011-12)

P1 Year 129
P2 Year 123
P3 Year 110
P4 Year 121
PharmD Subtotal 483
BS in Pharmaceutical Sciences 35
BS/MS and MS in Pharmaceutical Sciences 26
PhD in Pharmaceutical Sciences 36
Pharmaceutical Sciences Subtotal 97
Total Enrollment 580
Office of Continuing Pharmacy Education

Mission: To provide continuing education activities designed in knowledge, application, and practice-based learning to meet the needs of pharmacists and preceptors in all practice settings.

Goal:
The goal is to support life-long learning and to create an environment of continuing professional development. The University at Buffalo School of Pharmacy and Pharmaceutical Sciences strives to provide continuing education opportunities to assist in the health care delivery of patients in an inter-professional team approach.

The Office of Continuing Pharmacy Education (OCPE) underwent its petition for continued accreditation with the Accreditation Council for Pharmacy Education (ACPE). The OCPE received the full term of reaccreditation and was commended for a quality CPE program. In addition, the overall strength of the CPE program and the commitment and support from the university and the school of pharmacy were recognized.

As an accredited provider of continuing pharmacy education, we provide accreditation to programs offered by other schools of health science within the UB community, as well as our affiliated hospital partners, community pharmacies, pharmacy organizations, rural healthcare networks, and New York State Department of Health initiatives.

Over 2900 healthcare professionals, including but not limited to, pharmacists, physicians, physician assistants and nurse practitioners attended our ACPE accredited CE activities this past year. Educational opportunities are designed and offered as part of resident training sessions, preceptor continuing professional development and alumni events.

The Office of Continuing Pharmacy Education (OCPE) launched a new online program registration database allowing program participants to register electronically for multiple programs and track attendance history. This enhanced system allows electronic upload of attendance records to the newly developed CPE Monitor implemented by the Accreditation Council for Pharmacy Education (ACPE) and the National Association of Boards of Pharmacy (NABP). The OCPE provided notification and assistance to hundreds of pharmacists in setting-up their NABP eProfile and educated pharmacists on this new process.

CPE Monitor is a new system instituted to provide an electronic system for pharmacists and pharmacy technicians to track their completed continuing pharmacy education credits (CPE). All pharmacists and pharmacy technicians need to register for the system to offer the boards of pharmacy the opportunity to electronically authenticate the CPE units completed by their licensees. CPE Monitor will provide a secure, central system that maintains and tracks all ACPE-accredited CPE credits.

A new OCPE website was created, www.pharmacy.buffalo.edu/ce and includes a future topics online survey tool where pharmacists can request educational activities specific to their area of need.

The School completed its move from North Campus to Kapoor Hall on the South Campus providing a new state-of-the-art facility which brings with it technologies assisting in the delivery of application and practice based inter-professional continuing educational activities.
Continuing Education Programs and Symposia

8/9/11 NYS Medicaid Medication Therapy Management Pilot Program: Asthma in the Bronx
9/14/11 No Pressure: Simple Hypertension Management for an Ambulatory Setting
2/26/12 Pharmacy Law Update 2012 Buffalo
3/20/12 Exploring the Relationship between HIV Infection and Mental Illness
3/20/12 Co-morbidity: The Real Health Threat to the HIV Positive Individual
3/20/12 Prescription Opioid Drug Abuse: Our Legitimate Concerns
3/20/12 Medication Shortages: Why are There so Many and How are They Being Addressed?
3/25/12 Pharmacy Law Update 2012 Rochester
3/27/12 Compounded Topical Pain Preparations for the Treatment of Diabetic Neuropathy
3/27/12 Statins and Their Risk for Diabetes Mellitus
3/27/12 The Role of Diabetes Self-Management Education (DSME) in a Community Pharmacy
3/27/12 The Role of Fish Oil in the Treatment of Dyslipidemia
3/28/12 Pharmacotherapy Literature Evaluation
5/16/12 Forging the Missing Link: Optimizing the Pharmacists Role in Treatment of Patients Living with HIV/AIDS
5/23/12 17th Annual Comprehensive Pharmacy Law CE for Pharmacists and Technicians, Day 1
5/23/12 17th Annual Comprehensive Pharmacy Law CE for Pharmacists and Technicians, Day 2
Ongoing: Online HIV Pharmacotherapy Annual Update
Ongoing: Online HIV Pharmacotherapy Community Pharmacy CE Program
Ongoing: Online HIV Pharmacotherapy Practiced-Based Program

Residency Training Program Summary 2011-12

The Department of Pharmacy Practice maintained its commitment to providing post-graduate education through general (PGY-1) and specialty (PGY-2) residency training. Our residency program demonstrated continued growth in its outpatient programs during the 2011-12 academic year. This past year, our program consisted of seven PGY-1 programs; two in the ambulatory care/primary care setting, two in the inpatient setting, one in a hospice/palliative care setting, and two in community pharmacy (increased from one in 2010-11). Our program also offered two PGY-2 programs; HIV and psychiatry.

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 a variety of settings, sets the framework for our program.

The goals of our program are achieved by involving our residents in unique clinical activities such as those available within local medical groups, health maintenance organizations, hospitals, local community health locations as well as specialization in such areas as informatics and HIV pharmacotherapy. These goals are further enhanced via novel research projects and a variety of teaching opportunities. Specifically, our residents attend an established teaching certificate program, actively participate in small and large group didactic teaching and clinical precepting, present an ACPE accredited CE program, participate in a unique didactic research course, and conduct a research project in their area of practice. The University at Buffalo School of Pharmacy sponsors an annual Residency Presentation Day, which continued to expand in 2012, and includes multiple residency programs from the Western New York, Rochester, and Syracuse area. This program gives all residents the opportunity to give a platform style presentation to area residency program directors, preceptors, and resident peers on their research and scholarship.
Melissa Apa, PharmD
Resident
PGY1 - Primary Care/Buffalo Medical Group
Lauren Koranteng, PharmD
Resident
PGY1 - Homecare/Hospice-Niagara Hospice
Kristina Marchese, PharmD
Resident
PGY1 - Pharmacy Practice/ECMC
Christina Manciocchi, PharmD
Resident
PGY1 - Ambulatory Care/Lifetime Health

James Mikula, PharmD
Resident
PGY2 - HIV/ID/ECMC
Michael Shuman, PharmD
Resident
PGY1 - Psychiatry
Ashley Smith, PharmD
Resident
PGY1 - Community Pharmacy/Middleport Family Health
Ashley Toale, PharmD
Resident
PGY1-Community Pharmacy/Vascuscript
Samira Garonzik, PharmD
Fellow
Drug Development/Novartis

Benjamin Guiastronnec, PhD
Fellow
Drug Development/Novartis
Ridhi Parasrampuria, PhD
Fellow
Drug Development/Novartis
Gauri Rao, PharmD
Fellow
Roche
Rachel Soon, PhD
Fellow
Drug Development/Novartis
Vanessa Stevens, PhD
Fellow
Outcomes Research

Karen Thudium, PharmD
Fellow
Drug Development/Novartis
Stuart Turner, MPH, BPharm (Honors)
Fellow
Outcomes Research
Lance Wollenberg, PhD
Fellow
Drug Development/Novartis
Bai Xue, PhD
Fellow
Ordway

PHARMACY PRACTICE RESIDENTS/FELLOWS

Sihem Alt-Oudhia
Mechanistic PK/PD Modeling of Anti-cancer Drugs; Modeling of Noninvasive Images of Tumor Vasculature; Mechanism-based Disease Progression Modeling of Rheumatoid Arthritis
Yanguang Cao
Mechanistic PK/PD Modeling of Anti-diabetes Drugs
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
Melanie Felmlee
In Vitro-In Vivo Extrapolation of Renal Clearance: Determination of Scalars of Renal Transporters
Brent Footer
Reagent-Free Detector for the Continuous Measurement of Analytes In-Vivo
Allison Gaudy
Influence of Charged Residues in the Variable Domain on Half-Life, Tissue Distribution, and Bioavailability of Therapeutic IgG Antibodies
Salaheldin Hamed
PK/PD/disease Modeling of Gemcitabine for More Efficacious Treatments of Pancreatic Cancer
Xiaosheng Jiang
Clinical Proteomic Profiling on Cancer and Cardiovascular Diseases
Leonid Kagan
Investigation of Interferons PK and PD
Investigation of Subcutaneous Absorption of Monoclonal Antibodies
Tao Ji
Use of Accelerator Mass Spectrometry for Investigating Target Ligand Turnover kinetics
Jun Li
Proteomic Investigation of Drug Therapy Responsive Proteins and their Post-translational Modifications (PTMs)

Dongyang Liu
PK/PD/PG/DIS Models for Exploration of Cytokines Role in RA Progression of Rats
Eslam Nouri Nigjeh
Label-free and Biomarker-discovery-based Quantitative Proteomics
Ayse Meric Ovacik
Algorithmic Study Design for Identification of Target Expression from Disposition Data
Systems Pharmacology Modeling of Therapeutic Proteins in Signaling Networks
Yuzhuo Pan
miRNA Regulation on Drug Metabolism and Disposition
Siddharth Sukumaran
Pharmacokinetics and Pharmacodynamics of Corticosteroids Drugs used for Immunosuppression and as Anti-inflammatory Agents
Chengjian Tu
Proteomic Analysis for Biomarker Discovery in Cancer, Neurotic, and Cardiovascular Diseases
Fang Wu
Lymphatic Uptake of Proteins: Use of Whole Body Fluorescence in Rats
Weiyang Zhang
General Platform for Understanding the Subcutaneous Absorption of mAbs
Ying Zhang
Systems Biology of Erythropoietin Production Under Hypoxic Conditions in Rats
Application of Transit Compartments Model in Describing Signal Transduction and Delays in PK/PD Systems
Bo Zheng
Pharmacokinetics and Pharmacodynamics of Antibody and Protein Drugs
Commencement Awards

Lilly Achievement Award
Danielle Joset

Michael E. Crawford Award
Christopher Diehl

Eino Nelson Award
Christina Behney

UB Pharmacy and Pharmaceutical Sciences Alumni Association Award
Maria Lantichio

David E. Guttmann Award
Peter Bloomingdale

Renee A. Dederich Award
Meghan Rowcliffe

Francis P. Taylor Award
Christina Behney

UB School of Pharmacy & Pharmaceutical Sciences Professionalism Award
Nadia Aboley

Robert H. Ritz Award
Uzoamaka Atuegwu

National Community Pharmacists Association Outstanding Student Member Award
Amy Wojciechowski

Mylan Pharmaceutical Excellence in Pharmacy Award
Geraldene Agbasionwe

Facts and Comparisons Award of Excellence in Clinical Communication
Heather Johnson

Roy M. Barr Award
1st Amy Wojciechowski, 2nd Tsz Man Hu

Western New York Society of Health-system Pharmacists Award
Amy Wojciechowski

Samuel J. Bauda Award
Matthew Schnupp

Pharmacists’ Society of the State of New York
Danielle Joset

Natural Medicines Comprehensive Database Recognition Award
Scott Pickford

McKesson Leadership Award
Jason Hou

TEVA Pharmaceuticals USA Outstanding Student Award
Rebecca Walker

A.B. Lemon Memorial Award
Nadia Aboley

The Inpatient Advanced Pharmacy Practice Experience Award
Caitlin Carpenter

The Outpatient Advanced Pharmacy Practice Experience Award
Allyson Harmon

Pharmacists’ Association of Western New York Student Leadership Award
Christopher Daly

Excellence in Pharmacogenomics Award
Uzoamaka Atuegwu

Katherine Doyle Memorial Award
Caitlin Jackowiak

Kelli Jordan Memorial Award
Gavrilio Durica

Phi Lambda Sigma Certificate of Achievement, Chapter Member of the Year Award
Jason Hou

The Outstanding Graduating Senior Award in Pharmaceutical Sciences
Andrew Shick

The Alfred and Erma Jones Award
Peter Bloomingdale

Margaret C. Swisher Memorial Award
Julie Graf

Excellence in Teaching Award
Gina Prescott, 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**
- Genentech
- Jun Wang
- Pfizer, Inc.
- Vaishali Chudasama
- Anas Fathallah
- Nisha Vijay
- Xu Zhu

**PhD Studies**

- John & Editha Kapoor Fund
- Rutwij Dave
- Puneet Gaitonde
- Center For Protein Therapeutics
  - (Abbott, Amgen, Eli Lilly, Janssen, Merck, Pfizer, Roche/Genentech, and Sanofi Aventis)
- Lubna Abuqayyas
- Frank Engler
- Yash Gandhi

**POSTDOCTORAL ASSOCIATES/FELLOWS:**
- Pfizer, Inc.
- Sihem Ait-Oudhia
- Yanguang Cao
- Center For Protein Therapeutics
  - (Abbott, Amgen, Eli Lilly, Janssen, Merck, Pfizer, Roche/Genentech, and Sanofi Aventis)
- Hong Ding
- Brent Footer
- Allison Gaudy
- Leonid Kagan
- Dongyang Liu
- Fang Wu
- Bo Zheng

**Pharmacy Practice**

**POST GRADUATE RESIDENTS AND FELLOWS**
- Lifetime Health
- Christina Manciocchi
- Buffalo Medical Group
- Melissa Appa
- Novartis Pharmaceuticals Corporation
- Mostafa Elgebaly
- Samira Garonzik
- Benjamin Guiastronnec
- Ridhi Pararasmpuria
- Rachel Soon
- Karen Thudium
- Lance Wollenburg
- Roche Pharmaceuticals
- Gauri Rao

Who’s Who Among Students in American Universities and Colleges

- Nadia Aboley
- Geraldene Agbashionwe
- Uzoamaka Atuegwu
- Josephine Cheuk
- Christopher Daly
- Christopher Diehl
- Kristen Della Penna
- Robert Goris
- Sara Hilliard
- Jason Hou
- Danielle Joset
- Yousuf Khan
- Michael Lake
- James Martin
- Sean Ordway
- Meghan Rowcliffe
- Matthew Schnupp
- Christopher Sherrow
- Grace Shyh
- Amanda Szafranski
- Deborah Targoff
- Jillian Venci
- Carolina Villegas
- Amy Wojciechowski
Student Achievements

2012 School Awards Ceremony Winners:
Meghan Rowcliffe ’12: Daniel H. Murray Memorial Professional Development Award
Christopher Daly ’12: Pharmacy Times – Walmart ‘Respect Excellence and Service Award’
Danielle Joset ’12: U.S. Public Health Service Excellence in Public Health Pharmacy Practice Award
National Association of Chain Drug Stores, Pruitt–Schutte Business Plan Competition Team Members
Ian Bader ’15, Kristen Mazurkiewicz ’14, Lindsey Feuz ’14 and Georgia DiFiore ’14
MEDISCA Student Pharmacist Compounding Competition 2nd Place Team Members
Georgia DiFiore ’14, Amanda Paxton ’13, Andrew Rumpf ’13 and Amy Wojciechowski ’12
APhA-ASP Recognized as UB’s Student Organization of the Year & Present at Celebration of Excellence
The American Pharmacists Association Academy of Student Pharmacists (APhA-ASP) was the recipient of the 2012 UB Student Organization Award for Excellence in Academics and Service. This award recognizes clubs that take what they learn in the classroom, and apply it to assist others. The group also received a $1,000 stipend. Co-Presidents, Ali Mohamedali ’13 and Scott Coon ’13 presented a poster highlighting the work APhA-ASP has accomplished.

Pharmaceutical Sciences Students Recognized at UB’s Celebration of Academic Excellence Event
Peter Bloomingdale, Daniel Ferguson, Weilin Jin, and Jigar Patel presented posters from the department of pharmaceutical sciences, while Almedina Djesevic presented a poster from Chemistry, and Yun Zheng presented a poster from the McNair Scholars Program.

These students were presented with the Undergraduate Research and Scholarship Award of Distinction:
Daniel Ferguson: “DNA Sequence Variants in the Carbonyl Reductase 1 Gene (cbr1) in 7 Breeds of Canis Lupus Familiaris” Research Mentor, Dr. Javier Blanco
Yun Zheng: “Analysis of Anions in Local Water Bodies” Research Mentor, Dr. Valerie Frerichs, Medicinal Chemistry

Puneet Gaitonde and Jamie Chin Recognized for International Research Award
Congratulations to Puneet Gaitonde, PhD student and Jamie Chin, PharmD/MS student for their work in Dr. Sathy Balu’s research lab. Dr. Balu-lyers’ research “Mitigation of Immunogenicity of Therapeutic Proteins by ‘Reverse Vaccination TM’ – Lipid Renders Therapeutic Protein Tolerogenic” received the 2012 Biotechnology Innovation Award from American Association of Pharmaceutical Scientists (AAPS) National Biotechnology Conference. Both Puneet and Jamie actively contributed in receipt of this international award.

VALOR Internship Program
Angela Borton ’13 and Michelle Ingalsbe ’13 accepted into the Veterans Administration VALOR (internship) program here at the Buffalo VA Medical Center. The VALOR program is an honors program that provides outstanding students a chance to develop competencies in pharmacy practice while working at a VA health facility.

Individual Achievements
Jamie Chin ’13 recipient of an American Association of Colleges of Pharmacy Walmart Scholars Program award.
Vaishali Chudasama, pharmaceutical sciences graduate student, was awarded an American Foundation for Pharmaceutical Education (AFPE) Pre-Doctoral Fellowship for her work: “Mechanism-Based Cellular Pharmacodynamic Modeling of Combination Chemotherapy in Multiple Myeloma”.
Lindsey Feuz ’14 elected to the National Community Pharmacists Association Student Leadership Council.
Nicholas Hopwood ’14 recipient of the 2011 Rx Portfolio Achievement Award from the Rx Insider.
Yeonwoo Jung ’15 participated in a medical mission through Global Assistant Partner/UNICEF where he assisted with patient education and blood pressure screenings.
Karen Louie ’16 recipient of a 2012 Grace C. Capen Academic Award from the University at Buffalo.
Kristen Mazurkiewicz ’13 recipient of a summer internship with Genetech Pharmaceuticals in their General Training and Development Department.
Dustyn Miller ’13 recipient of the Kenmore Mercy Hospital LOVE Award (Living Our Values Effectively) for demonstrating effort above and beyond that which is expected.
Samantha Reiss ’13 presented and published her scholarly project “Application of Novel Handwriting Recognition Technology in an Oncology Specialty Pharmacy” which she presented at Academy of Managed Care Pharmacy 24th Annual Meeting and had her abstract published in the Journal of Managed Care Pharmacy show issue March 2012.
Khadeeja Saleh ’14 recipient of the 2012 Ruth Davies Flaherty Service Award from the school’s Lambda Kappa Psi chapter.
2011-2012 Degree Recipients

Bachelor of Science in Pharmaceutical Science

September 2011
Kenneth DiPasquale

February 2012
Hyoun Sik Kim
Ying Wang

June 2012
Matthew Bernardes
Peter Bloomingdale
Toshaben Dave
Weilin Jin
Jigar Patel
Neel Patel
Andrew Shick

Master of Science in Pharmaceutical Sciences

September 2011
Mudit Kulshrestha
Vidhi Mody

June 2012
Ting Chen
Julie Dumond
Samira Garonzik
Asfiha Gebre
Amanpreet Singh

Doctor of Pharmacy

February 2012
Erik Rogers
Scott Wilson

June 2012
Nadia Aboley
Josiane Abou- Jaoude
Geraldene Agbasionwe
Julie Agostinelli
Richard Ang
Uzoamaka Atuegwu
Nicholas Bacon
Elizabeth Badgley
Jeffrey Balsam
Philip Basko
Christina Behney
Karen Bernardi
Roni Birdsal
Dimitra (Ekonomidis) Bitikofer
Andrew Brown
Emily Brown
Alexander Campos
Caitlin Carpenter
Cecilia Chan
Josephine Cheuk
Edward Cheung
Getrude Chimhungwe
Alexander Chu
Megan Connaughton
Shannon Conway
Matthew Dailey
Christopher Daly
Raghu Damarla
Lindsay DeBellis
Evan Delaney
Kristen Della Penna
Shu Mei Deng
Christopher Diehl
Michael Drozdowicz
Gavrilu Durica
Stephanie Dylag
Zekun Feng
Krystina Geiger
Robert Goris
Julie (Schroeder) Graf
Daniel Graves
Kristina Grove
Thomas Guzzino
Kyle Hacker
Ryan Hare
Allyson Harmon
Jenna Hendershot
Christina Hew
Sara Hilliard
Sarah Holmes
Yen Nien Hou
Tsz Man Hu
Caitlin Jackowiak
Heather Johnson
Curtis Johnston
Danielle Joset
Katherine Kaczor
Tricia Kalinowski
Stephanie Kalisz
Eric Kanouse
David Kelsey
Yusouf Khan
Kristin Kieler
Jia Kuang
Tammy Kublas
Michael Lake
Maria Margarita Landicho
Katie Marcheson
Sarah Mark
Christopher Martens
James Martin
Caitlin Mason
Nicholas Mayers
Samuel Miller
Huy Nguyen
Karen Nguyen
George Nimako
Evelyn Nkeyasen
Kerri O’Connor
Katherine Olson
Jacqueline Oot
Kevin Patel
Robert Philips
Scott Pickford
Teresa Rizzone-Ebel
Meghan Rowcliffe
Anthony Russo
Marie San Roman
Vanessa Schmouder
Matthew Schnupp
Shawn Sessanna
Christopher Sherrow
Grace Shyh
Katherine Spence
Meagan (Reeb) Stringham
Caroline Symes
Amanda Szafrenski
Deborah Targoff
Phuong Tran
Cheong Tsang
Caitlin Turner
Henry Ugualua
Adam Urbanczyk
Aleksey Ushkin
T’Quomas Van Bergen
Jillian Venci
Julie Veneklase
Eric Viani
Carolina Villegas
Rebecca Walker
Rebecca Ware
Kirsten Woelfel
Amy Wojciechowski
Sylvia Wong
Jessica Wu
Yun Zou

Doctor of Philosophy in Pharmaceutical Sciences

February 2012
Nathaniel Page
Dipak Pisal

June 2012
Lubna Abuqayyas
Yang Chen
Jing Fang
Puneet Gaitonde
Yash Gandhi
James Kalabus
Dipti Pawaskar
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. Our 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.

Our Center for Protein Therapeutics, with director, Dr. Joseph Balthasar, was established in 2008 to promote the application of Pharmaceutical sciences to the development of protein drugs. The Center: (a) trains students and post-doctoral fellows in emerging areas relevant to the development and optimization of therapeutic proteins, (b) develops improved analytical and computational tools for use in assessing protein pharmacokinetics and pharmacodynamics, (c) develops new paradigms for the analysis of protein absorption, disposition, and pharmacodynamics, (d) develops new strategies to engineer protein formulations and dosage regimens to optimize effects and to minimize risks for immunotoxicity, (e) further evolves measurements of proteins and other biomarkers as a means of monitoring and modeling disease progression and drug efficacy, and (f) develops new strategies for assessing the therapeutic equivalence of protein pharmaceuticals.

Center sponsors in 2011-12 included: Abbott, Amgen, Eli Lilly, Genentech, Merck, Pfizer, and Roche. The Center provided funding (~$100,000/project) for 53 research projects, with 9 projects funded in 2011-12. Key recent research includes the development of predictive physiologically-based pharmacokinetic models for antibody disposition (J Pharmacokin Pharmacodyn 2012, 39:683-710), investigation of determinants of monoclonal antibody absorption following subcutaneous dosing (AAPS J 2012,14:559-70, and AAPS J 2012,14:252-61), and development of new strategies for quantifying concentrations of protein drugs in blood and tissues (Anal Chem 2012, 84:4373-82, and J Chromatogr A 2012, 1251:63-73). Often, project results (e.g., mathematical models, new methodologies) have been quickly implemented by industry sponsors.

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 $150,000+ for graduate student and post-doc training were provided by Hoffmann-LaRoche, Genentech, and Simcyp, and as well as continued training grant funding of $250,000 from Pfizer Pharmaceuticals. Our BSc undergraduate program included 24 students while our graduate program, headed by Dr. Murali Ramanathan, had 46 MS and PhD students. We also hosted 30 post-doctoral fellows and visiting scientists.

An active Seminar Program offered 39 presentations by students and local and visiting scientists. Dr. Leslie Benet, Professor of Bioengineering & Therapeutic Sciences at the University of California at San Francisco was selected for the 2011 Gerhard Levy Distinguished Lectureship in Pharmaceutical Sciences and presented, “The Clinical Pharmaceutical Sciences: What Hath Levy Wrought?” Other notable speakers were: Tamara Minko, PhD, Rutgers University and Jennifer Fretland, PhD, Hoffmann-LaRoche. The Graduate Student Association (GSA) hosted alumnus Dr. Patrick McNamara for the GSA Alumni Lecture who presented, “Modeling Drug Transport Function: Stereoselective Drug Accumulation in Milk”. The newly enacted David Chu Lectureship in Drug Development featured Dr. Christopher Lipinski, formerly of Pfizer and currently with Melior Discovery with the topic, “Drug Discovery and Chemical Biology: Lessons Learned and Times of Change”.

Our faculty had over 90 research articles and book chapters published and gave over 80 seminars, lectures, and research presentations at various scientific meetings, university, and industrial venues. Many faculty and students routinely attend the meeting of the American Association of Pharmaceutical Scientists (AAPS) where we host an annual Buffalo Alumni Reception.

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 which included our 20th session of the PK/PD Modeling course. Drs. Mager, Balthasar, and Jusko also presented the PK/PD courses
at the University of Paris Descartes in January. We were hosted by alumnus Jean-Michel Scherrman, PhD, who was recently appointed as Dean of the School of Pharmacy.

Dr. Wojciech Krzyzanski was promoted to Associate Professor with tenure and Dr. Sathy Balu-Iyer to full Professor. Balu received the UB 2011 Exceptional Scholar Teaching Innovation Award, the 2011 Niagara Frontier Inventor of the Year Award, and a 2012 Innovation in Biotechnology Award from AAPS. He holds numerous patents for his research with lipidized proteins. In 2012, Dr. Marilyn Morris was named a Fellow of the American Association for the Advancement of Science and received the UB Distinguished Postdoctoral Scholar Mentor Award. She served several years as the Associate Dean of the Graduate School with much interest in the needs of UB postdoctoral fellows.

The Department is poised for further growth of its research and training programs. We maintain strong capabilities in the areas of Protein Therapeutics and Cancer Therapeutics and continue our prominence in Pharmacokinetics, Pharmacodynamics, and Pharmacometrics.

**Department of Pharmacy Practice**

The 2011-2012 year brought with it many advances within the Department of Pharmacy Practice.

The department was pleased to welcome the addition of a Vice Chair, William A. Prescott, Jr., PharmD, Clinical Assistant Professor, the addition of faculty members Mohammed Mohamoud, PharmD, MPH, Clinical Assistant Professor, and Senior Research Scientists Michael Krajewski, PharmD, MLS, and Kalpesh Desai, BscPhm, PharmD.

Our faculty members worked to developed a newly enhanced curriculum, while readying the Kapoor Hall teaching spaces for the first semester in our new state-of-the art school of pharmacy. Gina M. Prescott, PharmD, BCPS was the recipient of the Teacher of the Year Award. Jack Brown, PharmD, MS, BCPS was recognized as the Teacher of the Year finalist.

The American Association of Colleges of Pharmacy honored Gene D. Morse, PharmD., Professor, medicine and pediatrics, with the Volwiler Research Achievement Award for his outstanding research and contributions to the fields of clinical/translational pharmacology and pharmaceutical sciences. The department also recognizes the efforts of our faculty who were awarded grants for their outstanding research efforts and their continued excellence in scholarly and service activities.

The Office of Continuing Pharmacy Education continues to be a vital link to the continuing professional development of today’s pharmacists, offering many educational activities as webinars providing an opportunity for live attendance by out of area alumni and preceptors. The adoption of new technology allows for the webinar participant to actively participate remotely in pre- and post-test assessments. The CPE office continues to serve as an accrediting entity for programs offered by our health care partners and pharmacy corporations.

The department is proud of its continued collaboration with the New York State Department of Health, also providing fellowship and residency training opportunities. Department faculty now provide, for the NYS Medicaid Monthly Update Newsletter, an article generated from questions submitted via the Drug Information Response Center, a service which is provided as part of the outreach from the Prescriber Education Program.

The Office of Experiential Education has enhanced its use of the E*Value System by better implementing toolkit and scheduling functions to further improve their reporting and student tracking. Outreach to training sites across the country to provide diverse experiential opportunities is always a primary directive. The Office has added additional community, hospital, research and regulatory training sites giving students many unique educational opportunities.
Faculty Grants Awarded
July 1, 2011 - June 30, 2012

Pharmaceutical Sciences

Joseph Balthasar
Multiple Sponsors
Protein Therapeutics Consortium
Regents of the University of Michigan
PTD-Mediated Protein or Drug Delivery for Cancer Therapy

Sathy Balu-Iyer
National Heart Lung and Blood Institute
Development and pharmacology of novel lipidic rAHF

Javier Blanco
National Institute of General Medical Sciences (RO1)
Pharmacogenetics of Human Carbonyl Reductases

William Jusko
National Institute of General Medical Sciences
Corticosteroid Pharmacokinetics and Pharmacodynamics
National Institute of General Medical Sciences (Mager and Krzyzanski Co-PI's)
Mathematical Models in Pharmacodynamics

Marilyn Morris
National Institute on Drug Abuse
Gamma-Hydroxbutyrate: Toxicokinetics, Toxicodynamics and Treatment Strategies

Jun Qu
National Institute of General Medical Sciences (Co-PI)
Roles for Mismatch Repair Proteins in Maintaining Genome Stability

Wojciech Krzyzanski
AstraZeneca Pharmaceuticals LP
Integration of lifespan modeling for predicting chemotherapeutically-mediated cytotoxic outcomes in tumor growth inhibition models and hematopoietic systems

Donald Mager
Eunice Kennedy Shriver National Institute of Child Molecular and Clinical Pharmacology of Retinopathy of Prematurity

Murali Ramanathan
National Multiple Sclerosis Society
Brain-Derived Neurotrophic Factor in Multiple Sclerosis

Dr. Jerome Schentag
NYS Department of Economic Development (Co-PI)
Center for Advanced Biomedical and Bioengineering Technology

Robert Straubinger
Merrimack Pharmaceuticals Incorporated
Liposomal formulations for pancreatic cancer treatment

Aiming Yu
National Institute on Drug Abuse (Drs. Jusko and Boje Co-PI's)
Pharmacogenetics in Indolealkylamine Metabolism and Drug Interactions

New Technology

<table>
<thead>
<tr>
<th>Invention Disclosure</th>
<th>Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition for less immunogenic, long acting and tolerance induction</td>
<td>Sathy Balu-Iyer</td>
</tr>
<tr>
<td>Device for Monitoring Breath Clucose and other Analytes</td>
<td>Jerome Schentag</td>
</tr>
<tr>
<td>Oral Formulation Mimetic of Roux-en-Y Gastric Bypass Actions on the Ileal Brake; Compositions, ... Diagnostics and Systems for Treatment of Metabolic Syndrome Manifestations including Insulin Resistance, Fatty Liver Disease &amp; Type 2 Diabetes</td>
<td>Jerome Schentag</td>
</tr>
<tr>
<td>A microRNA for the treatment of cancers</td>
<td>Aiming Yu</td>
</tr>
<tr>
<td>Effect of ADP355 Administration in High Fat Fed Sprague-Dawley Rats; A Study Evaluating Safety and Animal Body Response</td>
<td>Alice Ceacareanu</td>
</tr>
</tbody>
</table>
Pharmacy Practice

Edward Bednarczyk
State University of New York
Evidence Based Clinical Research Collaborative Program
Health and Human Services
Poison Control Stabilization and Enhancement Program

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

Alan Forrest
Hoffmann-LaRoche Incorporated
Pharmacy Roche Fellowship

Qing Ma
New York University School of Medicine
The Effect of Efavirenz and Ritonavir-Boosted Darunavir on the Pharmacokinetics of the HMG CoA Reductase Inhibitor Pitavastatin

Scott Monte
VascuScript Pharmacy Incorporated
UBSOPPS & VascuScript Community Pharmacy Residency Expansion Project
National Association of Chain Drug Stores Foundation
UBSOPPS & VascuScript Community Pharmacy Residency Expansion Project

Gene Morse
Erie County Medical Center
HIV Treatment Education
Erie County Medical Center
New York State Adherence Project
Fogarty International Center (Drs. Ma and Maponga Co-PI’s)
Antiretroviral Pharmacology Training in Resource Poor Countries
Brigham and Women’s Hospital (Co-PI)
ACTG Pharmacology Specialty Laboratory
National Institute of Allergy & Infectious Disease (Options 1-5)
Clinical Pharmacology Quality Assurance and Quality Control
LFA Incorporated
Standard Administration Protocol (SAP) Phase 1
Brigham and Women’s Hospital (Co-PI)
ACTG Precautionary & Prohibited Medication Table
Social and Scientific Systems Incorporated
A Prospective, Phase III, Open-Label Study of Boceprevir, Pegylated-Interferon Alfa 2b and Ribavirin in HCV/HIV Coinfected Subjects: Boceprevir, Interferon, Ribavirin to Treat HCV/HIV Coinfected Subjects (BIRTH)
Social and Scientific Systems Incorporated (Co-PI)
Pharmacoinetics and Drug Interaction Potential of Boceprevir in HIV/HCV Coinfected Subjects: A Substudy of A5294
University of Rochester (Co-PI)
Upstate New York Translational Research Network (UNYTRN)
University of Rochester (Co-PI)
Units for HIV/AIDS Clinical Trials Network
University of Rochester (Co-PI)
CHET
University of Rochester
ARRA: Researcher Resilience through Multidimensional Mentoring: The Rochester Research Workforce Diversity Program
Brigham and Women’s Hospital (Co-PI)
AIDS Clinical Trials Group Executive Committee
University of California, San Francisco (Co-PI)
Disulfiram Interactions with HIV Medications: Clinical Implications

Kathleen Tornatore
Novartis Pharmaceuticals Corporation
The Influence of Diabetes on Myfortic (enteric coated myco-phenolic acid sodium) Pharmacokinetics and Adverse Drug Effects in Stable African American and Caucasian Renal Transplant Recipients

Brian Tsuji
Cubist Pharmaceuticals, Inc
Research Material Transfer Agreement: Pharmacokinetic-Pharmacodynamic Evaluation of CXA-102 Against Multi-Drug Resistant Gram Negative Organisms in a Invito Hollow Fiber Model
Monash University
Targeting MDR Hetero-Resistant Gram-Negatives: PK/PD for Rational Combinations
**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, 2011 - June 30, 2012

**Pharmaceutical Sciences**

**Balthasar, Joseph P.**


**Balu-Iyer, Sathy V.**


**Blanco, Javier G. G.**


**Fung, Ho Leung**


**Jusko, William J.**


**Krzyzanski, Wojciech**


**Mager, Donald E.**


Morris, Marilyn E.


Qu, Jun


Schentag, Jerome J.

Straubinger, Robert M.

Yu, Aiming

Pharmacy Practice

Albanese, Nicole P.

Bednarczyk, Edward M.

Brown, Jack

Ceacareanu, Alice C.

Coe, Holly V.

Doloresco III, Fred

Havard, Patty F.

Jill Hochreiter

Hong, Irene
Ma, Qing


Monte, Scott V.


Morse, Gene D.


Norgard, Nicholas B.

Pasko, Mary T.

Prescott, Gina M.

Prescott Jr, William A.

Tornatore-Morse, Kathleen M.


Tsuji, Brian T.

Wahler Jr., Robert G.

Wrobel, Mark J.
Special Honors for Faculty and Staff

**Sathy Balu-Iyer**, professor, recipient 2012 American Association of Pharmaceutical Scientists Innovation in Biotechnology Award.

**Jack Brown**, clinical assistant professor, recipient 2011 SoPPS Teacher of the Year Finalist Award. Jack was also the recipient of the 2012 New York State American College of Clinical Pharmacy Research of the Year Award.

**Linda Catanzaro**, clinical assistant professor, received certification from the American College of Clinical Pharmacy Leadership and Management program.

**Ho-Leung Fung**, professor, 2012 recipient of the distinguished rank of University at Buffalo Distinguished Professor. This distinction was bestowed in recognition of Leung’s lifelong work in the area of vasodilator kinetics as well as national and school based leadership.

**William Jusko**, professor, recipient 2012 American College of Clinical Pharmacology Distinguished Investigator Award.

**Marilyn Morris**, professor, recipient 2012 University at Buffalo Graduate School Distinguished Postdoctoral Mentor Award.

**Gina Prescott**, clinical assistant professor, recipient 2012 SoPPS Teacher of the Year.

**William Prescott**, clinical assistant professor, Ad Hoc Reviewer, Pediatric Pulmonology

**Erin Slazak**, clinical assistant professor, recipient 2012 Lambda Kappa Sigma Female Pharmacist of the Year Award.

**Christine Stumm**, Registrar and Assistant Director of Admissions, recipient 2012 SoPPS Staff Member of the Year Award.

**Ashley Webb**, clinical assistant professor, received board certification as a clinical toxicologist.

We say thanks to you, our alumni and friends, for the support you’ve given during this landmark year.

John and Editha Kapoor Hall, a world-class facility that is now our new home, officially opened in September, returning UB Pharmacy to its roots on the South Campus. It also is the first professional school at UB in 30 years to return to the City of Buffalo. Its ultramodern and efficient research, teaching and computer facilities promote improved capabilities for faculty and students.

While the school looks to the future in its new location, all of UB Pharmacy looks back at the tenure of Dean Wayne K. Anderson, who is retiring from the position he has held since 1995. Pleased with the progress made in the school’s curriculum, degree programs and research discoveries, Dean Anderson said he eagerly anticipates further growth and health-care innovations in the school’s future.

We invite you to continue being an important part of the school’s exciting vision for UB Pharmacy. Your commitment to making the school stronger has helped our faculty members provide an outstanding education to our students. Your generosity allows us to provide scholarships and academic experiences that help prepare them to be the next generation of pharmacy professionals, clinicians and researchers. Your investment ensures that the school can fully address future challenges in health care far into the 21st century.

Wayne K. Anderson, dean of UB Pharmacy, is retiring to return to the faculty as an educator.

He talked recently about what he’ll remember most from his time as dean, and what he sees as an exciting future for the school.
What’s ahead?
Teaching my new course in pharmaceutical chemistry and writing a textbook.

What are your most vivid memories of your tenure?
No single thing in particular. I had a long and successful career in research, I was active in faculty governance (faculty senate leadership roles) and my transition into administration guided the pharmacy school to a new level of prominence.

Most interesting part of being dean?
Engaging with national leaders in pharmacy, medicine and pharmacy education as the dynamic pharmacy profession and the health-care system undergo significant transformation.

Best memory of your career?
Working with the Drug Development Program of the National Cancer Institute, and collaboration with colleagues around the world in the discovery and development of new cancer treatments. “A-ha!” moments in the laboratory.

Most challenging?
Transitions—from research to administration, and now the decision to retire. I see so many exciting new opportunities for our university, our school and the pharmacy profession, and at the same time, I had to determine that it was the right time for a leadership transition.

Most fun at UB?
Playing defense on the school’s hockey team “The Lethal Doses.”

Your perfect day?
Blue sky, no meetings, and time to study and reflect on the current literature and discover new potential opportunities for our school’s students and faculty.

What are your primary roles as dean?
I have been responsible for developing an exciting vision for our school’s future in collaboration with our faculty/staff/students and presenting that vision. I also have worked to highlight our school’s achievements and identify needs for future growth. And my role has been to articulate that “excitement” to alumni and other potential donors.

Three top accomplishments as dean?
Development of the PharmD program; the completion of Kapoor Hall; and the creation of robust cores to support our researchers.

Your legacy?
My science, my students and the school’s growth and development.

Your hope for the school?
The school has a nice balance of established, mid-career and new faculty members, and an incredible legacy of former faculty members. Our graduates have gone forward and made very significant advances in professional practice, academia, industry and government. My hope is we continue on this positive upward trajectory and that our faculty and students and the “next generation” of faculty and students continue to be recognized as innovators and leaders.

How has alumni giving helped?
I would like our alumni and friends to know that their gifts have made a difference! Scholarships, seed support for new research ideas, support for core facilities, support for teaching/learning innovations, Kapoor Hall—their gifts have been critical to our success!

Why give now?
We face an exciting future with many new challenges to address in an advancing pharmacy profession. We need to continue to attract and support the best and brightest new students and provide opportunities for all potential students. We need to continue developing new teaching/learning technologies and teaching pedagogies to ensure that our students will be well prepared to meet the new challenges they will face. The continuing accomplishments of our research at the forefront of many important fields carry a persistent demand for the latest technologies.

Appeal to alumni?
MAKE A DIFFERENCE.
Class of 1937
Loyalty Club
Irwin Brock

Class of 1938
Loyalty Club
Beatrice Noble

Class of 1940
Willis G. Gregory Society
Ralph Behling

Class of 1947
Mortar and Pestle Club
Marvin Korus

Class of 1948
Century Club
Ruth Lindblad

Class of 1950
Mortar and Pestle Club
Sylvia Giordano
Loyalty Club
Yvonne Blaich

Class of 1951
1886 Club
Florence McMahon
Loyalty Club
John Hackney Jr.

Class of 1952
Willis G. Gregory Society
Pamela Emerson
Milner Forster
Gerald Hooley
Joseph Sterman
Mortar and Pestle Club
Edward Frank Jr.
Century Club
Peter Shakarjian
Loyalty Club
Marian Barnes
Seth Siskin

Class of 1953
Willis G. Gregory Society
James Buckley
Harold Ertem
Joseph Mroczynski
Alton Tower
Mortar and Pestle Club
Richard Battaglia
Century Club
John Oakes
M. Donald Pritchard

Class of 1953, continued
Loyalty Club
David Fake
Melville Follett Jr.
Frank Messore

Class of 1954
Mortar and Pestle Club
Jean Frank

Class of 1955
Willis G. Gregory Society
Elaine Boland
Century Club
Irving Sultz

Class of 1956
Willis G. Gregory Society
Spencer Bickel
Joseph Chazan
Algirdas Gamziukas
Helaine Gamziukas
Ronald Isaacs
Loyalty Club
Anne Allen
Herbert Fechter
Zalman Garten
Frances Scheer

Class of 1957
Willis G. Gregory Society
Bruce Moden
Century Club
Anthony Barone
Harry Shifton
Loyalty Club
Harold Honig
John Krawiec

Class of 1958
Century Club
Morton Abramson
Richard Polakoff
Loyalty Club
Ardwin Block
George Ciancio Sr.
Mary Ann Krawiec

Class of 1959
Willis G. Gregory Society
Jan Madejski
Rose Mary Madejski
Robert Miller
Mark Rosenfeld
Joseph Voelkl
1886 Club
Paul Myka

Class of 1959, continued
Century Club
Marshall Cohen
Leonard Roskoff
Loyalty Club
David Hammond
Joan Hector

Class of 1960
Willis G. Gregory Society
Margaret Quinn
Century Club
Gertrude Corio
Murray Notebaert
Michael Salotti
Sandra Stanbridge
Loyalty Club
Myrna Burstine-LaBaer
Richard Cory

Class of 1961
Willis G. Gregory Society
Bernhard Esch
Century Club
Vitaus Alks
William Schack
Loyalty Club
Kenneth Gerber
Janice McGuigan

Class of 1962
Willis G. Gregory Society
Heather Ackley
William Ackley

Class of 1963
Loyalty Club
Myra Bellavia
Gerald Bergman
Robert Giaquinto
Richard Reuning
Gary Reynolds
David Schultz
Ronald Walnicki

Class of 1964
Century Club
Vitaus Alks

Class of 1965
Willis G. Gregory Society
Allen Barnett
William Jusko
Century Club
Leo Grossman
David Sperling
Loyalty Club
Mark-Richard Butt
Robert Hammond

Class of 1966
Willis G. Gregory Society
Alex Cardoni
Judith Cardoni
Robert Vince
Mortar and Pestle Club
Diane Mangus
Century Club
Linda Edelman
Alfred Gavaazzi
Raymond Napierala
Loyalty Club
Kenneth Witte

Class of 1967
Willis G. Gregory Society
Gary Mosher
Thomas Quinlan
Mortar and Pestle Club
Edward Morosczak
Century Club
Charles Bainbridge
Donald Goetz
Loyalty Club
Reginald Amelee
Gerald Mulcahy
George Skalski
Robert Van Slyke

Class of 1968
Mortar and Pestle Club
Ronald Lamb
Century Club
Carol Bainbridge
Norman Richter
Jeffry Rosner
Janet Whalen
Loyalty Club
Kenneth Gluc
Richard Reuning
Gary Reynolds
David Schultz
Ronald Walnicki

Class of 1969
Willis G. Gregory Society
Ronald Envers
Century Club
Elaine Cozzarin
Stuart Feldman
Jennifer Hampshire
Richard Markclinger
Ralph Wynn
Loyalty Club
Glenn Richards
William Wardle
Gary Zimmerman

Class of 1970
Willis G. Gregory Society
William Jusko
Mortar and Pestle Club
Gail Guzzo
Century Club
Edward Dowling Jr.
Sandra Dowling
Loyalty Club
Daniel Delecki
William Glave
David Perlman

Class of 1971
Willis G. Gregory Society
Ann Mack
Howard Weintraub
Mortar and Pestle Club
Laraire Riech Silverman
Century Club
Paul Grout
Stanley Szefler
Loyalty Club
Michael Constantino
Michael DiPirro
Barbara Finley
Edward Levine

Class of 1972
Willis G. Gregory Society
John Kapoor
Century Club
Robert Begert
Elizabeth Murphy
Carmen Salvemini
Loyalty Club
Michele Danish
Richard Klenk
Gwendy Magrisso

Class of 1973
Mortar and Pestle Club
Paul Lipinoga
Century Club
Thomas Carey
Jeffrey Chase
John Frischholz
Gerald Senese Sr.
Loyalty Club
James Axelson
Philip Carcione
Frank Locke
Thomas Nealon
Jerald Passer
Patricia Pino
Beth Resman-Targoff
Peter Wepplo
Class of 1974  
Willis G. Gregory Society  
George Laszakay  
Mortar and Pestle Club  
Mark Kestor  
Century Club  
Vitaus Alks  
Howard Forman  
Stephen Liebowitz  
Wendy Pritchard  
Gary Senf  
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Bharat Bhoshan  
Theresa Chiaravalloti  
Faith Kaye  
Anne McConnell  
Louis Nicosia  
Sima Peckler  
Loyalty Club  
Sidney J. Sadowski  
Loyalty Club  
Joseph Eppolito Jr.  
Joseph Fayad  
Daniel Koester  
Susan Reeves  
Leslie Sicurella  
Class of 1986  
Willis G. Gregory Society  
Brian Loucks  
1886 Club  
Kathleen Hondek  
Century Club  
Janice Aldinger  
Steven Kasper  
Patricia Ann Kole Marquardt  
Sarah Ronchetti  
William Schaumloffel  
Anita K. Smith  
Lauren Stotz  
Lynn Uber  
Walter Uber  
Loyalty Club  
Michael Kalita  
Tamara Kozlowski  
Class of 1975  
Willis G. Gregory Society  
David C.K. Chu  
Jee-Young Jane Chu  
Carol Goff  
Wai-Yung Florence Ho  
Henry Hu  
Lawrence Kwok  
Ken Yee  
1886 Club  
Svein Oie  
Century Club  
Danny Dahuying Shen  
David Smith  
David Soda  
Marcia Stahl  
Loyalty Club  
Gerald Braun  
Burde Kamath  
Sandra Kasprzyk  
Linda Lombardi  
Stephen Turkovich  
Class of 1976  
Willis G. Gregory Society  
Michael Jay  
Mario Rocci Jr.  
Mortar and Pestle Club  
Kathleen Cubera  
Century Club  
Daniel Winters  
Loyalty Club  
David Haughey  
Janet Karnes  
Leon Kuczanski II  
Beth Resman-Targoff  
Class of 1977  
Willis G. Gregory Society  
Susan Jay  
Century Club  
Vincent Andolina  
Howard Forman  
Mary Ann Hallenbeck  
Loyalty Club  
Lewis Barbi  
Paul Corey  
Jo Anne Giblin  
Anthony Hempel  
James Hillbert  
Wing Lun  
Barbara McNiff  
Jill Smith-Luer  
Jacob John Utzig  
Class of 1978  
Willis G. Gregory Society  
Karl Fiebelkorn  
George Laszakay  
Mary Poppendeck  
Neil Poppendeck  
Mortar and Pestle Club  
Suzanne Castine  
Kenneth Nantka  
Century Club  
Rosemarie Burgholzer  
Stanley Kent  
John Lettieri  
Susan Rozek  
Bruce Sakowitz  
Loyalty Club  
Colleen Clifford  
Paul Korus  
Barbara McNiff  
Mary Nufryk  
Class of 1979  
Willis G. Gregory Society  
Donald Daly  
Lynn Daly  
Karl Donn  
Tina Fiebelkorn  
Mortar and Pestle Club  
Kathryn Lyons  
Christopher Gravitz  
Century Club  
James Czajkowski  
Scheri Forman  
Margaret Johnson  
Dave Lutomski  
Loyalty Club  
Catherine Cmaylo  
Anna Mauri  
Kathleen Phalen  
Class of 1980  
Mortar and Pestle Club  
Thomas Streeter  
Century Club  
Thomas Engle  
James Fitzgerald  
Peter Illg  
Craig Kirkwood  
Kathleen Mrozinski  
Sandra Schifano  
Loyalty Club  
Kevin Connors  
Kimberly Cripps-Sutton  
Geoffrey Hill  
Patricia Palumbo  
Margaret Szalkowski  
Thomas Szalkowski  
Patricia Ziegler  
Sandra Zukoski  
Class of 1981  
Willis G. Gregory Society  
Mary Ann Dannenhoffer  
Stephen Giroux  
Elizabeth Ludvig  
Walter Ludvig  
Mario Rocci Jr.  
Mark Stramaglia  
Michael Taylor  
Century Club  
Adrienne Block  
Andrew DiLuca  
Joseph Geraci Jr.  
Eugene Hughto Jr.  
James Rose  
Ronald Schifano  
Loyalty Club  
Donna Carr  
Valerie Haarmeyer  
Rita Keller  
Gregory Kriel  
James Millard  
Ellen Rosenberg  
Mary Priscilla Sedgwick  
Class of 1982  
Willis G. Gregory Society  
L. Jamie Baxter  
Dean Salyer  
1886 Club  
Michael Dolan  
Mortar and Pestle Club  
Cheryl Parker  
Mark Stramaglia  
Century Club  
Michael Taylor  
Kathleen Hurd  
Catherine Fournier  
Class of 1983  
Willis G. Gregory Society  
L. Jamie Baxter  
Dean Salyer  
1886 Club  
Michael Dolan  
Mortar and Pestle Club  
Cheryl Parker  
Mark Stramaglia  
Century Club  
Michael Taylor  
Kathleen Hurd  
Catherine Fournier  
Class of 1984  
Willis G. Gregory Society  
James Baxter  
Marion Morris  
Elizabeth Ludvig  
Rachel Spire Smith  
Thomas Smith  
Mortar and Pestle Club  
Edward Bednarczyk  
Michael Rossi  
Century Club  
Susan Fagan  
William Malenga  
Loyalty Club  
Matthew Buehler  
Janet Rojek  
John Stalney  
Joan Twarog  
Class of 1985  
Willis G. Gregory Society  
James Baxter  
Marion Morris  
Elizabeth Ludvig  
Rachel Spire Smith  
Thomas Smith  
Mortar and Pestle Club  
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Michael Rossi  
Century Club  
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Loyalty Club  
Matthew Buehler  
Janet Rojek  
John Stalney  
Joan Twarog  
Class of 1986  
Willis G. Gregory Society  
Brian Loucks  
1886 Club  
Kathleen Hondek  
Century Club  
Janice Aldinger  
Steven Kasper  
Patricia Ann Kole Marquardt  
Sarah Ronchetti  
William Schaumloffel  
Anita K. Smith  
Lauren Stotz  
Lynn Uber  
Walter Uber  
Loyalty Club  
Michael Kalita  
Tamara Kozlowski  
Class of 1987  
Willis G. Gregory Society  
Mary Ann Dannenhoffer  
Century Club  
Jeanette Altavela  
Najib Babul  
Lynn Cirenza  
Christopher Jadoch  
Pamela Jadoch  
Mark Kuo  
Michael Manuszewski  
Melissa Micciche  
Mark Sinnett  
Loyalty Club  
Deborah Caruso  
David Feldman  
Rachel Fogerty  
William McIlverty  
Andre Lev Ruzyczky  
Class of 1988  
Willis G. Gregory Society  
James Baxter  
Terence Fullerton  
Salvi Parpia  
1886 Club  
Doreen Robinson
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<td>Mohammad Tabrizi-Fard</td>
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HONORARIUM & MEMORIAL GIFTS

In Memory of Alexander Aversano '36
Anthony and Camille Passarella

In Memory of Thomas Bardos
Robert Vince ’66

In Memory of Robert M. Cooper
Elaine Cozzarin ’69
Laraine Riech Silverman ’71

In Memory of Lori Esch ’97
Bernhard ’61 and Coraline Esch

In Memory of Joseph Sarnowski ’21
Bruce and Elaine Boland ’55

CORPORATIONS, FOUNDATIONS AND FRIENDS

Willis G. Gregory Society
Air Products Foundation
American Foundation for Pharmaceutical Education
American Heart Association Founders Affiliate
American Society for Pharmacology & Experimental Therapeutic
Wayne and Lorraine Anderson
AstraZeneca LP
Sathy and Vandana Balu-Iyer
Thomas and Maria Bardos
Marlene Bickel
Bruce Boland
Daniel Brazeau
Erin Brody
Ruth Buckley
CPL Associates, L.L.C.
Cuba Pharmacy
CVS Caremark Charitable Trust, Inc.
Daichi Sankyo Inc.
Raymond Dannenhoffer
JoAnn Donn
Christine Gabos Ermer
Ann Ertman
Coraline Esch
Family Medical Pharmacy, Inc.
Forster’s Pharmacy Inc.
Ho Leung and Sun-Mi Fung
Carolyn Giroux
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Barbara Hole
Mary Hu
Independent Health Association, Inc.
Infectious Diseases Society of America
Raymond Johnson
Johnson & Johnson
Paul Jones
Margaret Jusko

John & Editha Kapoor Charitable Foundation
Kinex Pharmaceuticals, LLC
Lina Kwok
Gerhard and Rosalyn Levy
Sandra Madejski
Middleport Family Health Center
Sharon Miller
Barbara Moden
William Morris
NACDS Foundation
National Multiple Sclerosis Society
National Community Pharmacists Association Foundation
Novartis Pharmaceuticals Corporation
Omnicare
David and Jan Panasci
Faye Panasci
Henry A. Panasci Jr. Charitable Trust
Pfizer, Inc.
Pike Company
Rite Aid Corporation
Donna Roccio
Rochester Drug Cooperative, Inc.
Simcyp Limited
Robert and Ninfa Straubinger
Frances Tan
Tops Markets, LLC
VascuScript, Inc.
Walgreens
Wal-Mart Stores, Inc.
Anita Weintraub
Leigh Yates

1886 Club
2121 Main Street Pharmacy, Inc.
Fred Doloresco
Eli Lilly and Company Foundation
The Medicine Shoppe
McKesson Corporation
Camille Passarella

Roche Matching Gifts
J. Rutowski & Sons, Inc.
UB Graduate Student Association
Mortar and Pestle Club
Akron Pharmacy/Town Country Gifts
Collegiate Village Affinity WNY Development, LLC
Michael Cubera
The Ellicottville Pharmacy
Holland Pharmacy, Inc.
Joseph and Margaret Izzo
Cindy Konovitz
Mylan Pharmaceuticals, Inc.
NYS Council of Health-System Pharmacists
Pharmacists’ Association of Western New York
David Stachnik
Century Club
Akzo Nobel Inc.
American Association of Pharmaceutical Scientists
Terrance Bellnier
Jennifer Berryman
Rebecca Brierley
Frank Chan
Qiuying Cheng
George Lindblad
The Merck Company Foundation
Jason Plaisted
Lawrence Rozek
Edward and Sherry Russak
The Boeing Company
Loyalty Club
Julie Kopler-Marranca
Hong Li
Carol Peyton

KEY:

Willis G. Gregory Society: $1,000 and above
1886 Club: $500 - $999
Mortar and Pestle Club: $250 - $499
Century Club: $100 - $249

This report includes donors who made gifts and planned gift commitments between July 1, 2011 and June 30, 2012. 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.
The Hayes Society honors individuals who have made legacy gifts to the School of Pharmacy and Pharmaceutical Sciences through a bequest or other method of deferred giving.

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.

ENDOWED STUDENT SCHOLARSHIP AND FELLOWSHIP SUPPORT

**Scholarship Fund**

- Cecil & Violet Newton Scholarship Fund (continued)
- Joseph Filgoy ’70
- Edward ’52 & Jean Frank ’54
- Carol Gloff ’75
- Joel Goodrich ’59
- Jan ’59 & Rose Mary Madejski ’59
- Robert Miller ’59

**SCHOLARSHIP**

- JUNE FARINECH BRACKER SCHOLARSHIP
- PAMELA EMERSON SCHOLARSHIP
- X. DAVID D’AMBROSIO SCHOLARSHIP
- CVS SCHOLARSHIP
- ROBERT M. COOPER MEMORIAL AWARD
- CRIMALDI-MADEJSKI FAMILY SCHOLARSHIP
- LORREN LARWOOD SCHOLARSHIP
- GILBERT J. KULICK SCHOLARSHIP

**SCHOLARSHIP FUND**

- LYLE A. GRAVES SCHOLARSHIP
- AVERSANO-STROZZI SCHOLARSHIP
- JENNIE BAUDA DEMUTH SCHOLARSHIP
- DAVID AND JANE CHU SCHOLARSHIP
- CRIMALDI-MADEJSKI FAMILY SCHOLARSHIP
- CVS SCHOLARSHIP FUND
- X. DAVID D’AMBROSIO SCHOLARSHIP FUND
- PAMELA EMERSON SCHOLARSHIP FUND
- Uzoamaka Atuegwu
- Katherine Dixon
- Deanna Driscoll
- April Huang
- Srijana Jonchhe
- Cindy Tezak
- Peter Tezak
- Adnan Ashraf
- ACPA SCHOLARSHIP
- NACDS SCHOLARSHIP
- ALUMNI ASSOCIATION SCHOLARSHIP
- UBO SCHOLARSHIP
- UBO SCHOOL OF PHARMACY AND PHARMACEUTICAL SCIENCES SCHOLARSHIP
- HENRY A. PANASCI SCHOLARSHIP FUND
- LORREN LARWOOD SCHOLARSHIP FUND
- CECIL & VIOLET NEWTON SCHOLARSHIP FUND
- JULIA KUSOSKI
- JULIE NILES ’62
- BEATRICE NOBLE ’39
- IRVING SULTZ ’55
- RALPH VESCO ’55
- PIERCE WEINSTEIN ’39, ’44

**SCHOLARSHIP**

- PAM T. BLANCHARD
- THE HAYES SOCIETY
- Our Web Site at pharmacy.buffalo.edu.
Scholarship blooms from snowbound love story

It was St. Patrick’s Day 1936 in Buffalo and a winter storm was dropping nearly two feet of snow across the region.

Frank’s brother Fred, who became a doctor, helped put their brother Michael through UB pharmacy school; Michael graduated in 1912, then opened a drugstore on Niagara Street, a few miles from where his niece and her husband would set up shop more than two decades later.

Frank’s son, Paul Strozzi, fraternity brother of Alexander Aversano, graduated from the UB pharmacy school in 1937.

On the Aversano side of the aisle, Alexander was a star student athlete while studying pharmacy, serving as the football team’s quarterback during the 1930s and earning membership in the UB hall of fame.

Alexander helped put his brother, Sam Aversano, through medical school at UB. Sam graduated in 1949, and his wife, Mary Aversano, was a 1950 UB pharmacy school graduate. Their son, Thomas Aversano, MD, spent two years at UB, completing a medical residency and serving as a research fellow in cardiology.

Alexander Aversano eventually went to work for the Foster-Milburn Company, makers of Doan’s pills, which later became Westwood Pharmaceuticals, then Bristol-Myer Squibb. He and Margherita had three children, all of whom learned from their parents about the importance of education. The oldest, Camille Passarella, is a 1961 UB graduate, who taught and worked in school administration at the Potomac School in McLean, Va.; her younger sister is Mary Aversano, and their brother is Paul Aversano, DO, professor of neurology and internal medicine at Western University of Health Sciences COMP-Northwest in Oregon.

Frank Strozzi established the Aversano-Strozzi Scholarship at UB in 1980 to honor Margherita and Frank’s son, Paul Strozzi, fraternity brother of Alexander Aversano.

Scholarship recipients

Jinhee Park and Jaclyn Kotula

Schools and businesses were shutting down, so Alexander Aversano accepted an offer to go home with Paul Strozzi, his fraternity brother in Alpha Phi Delta, the pharmacy school fraternity at UB.

Aversano didn’t know that, as he sat down at the Strozzi dining room table, the dinner would change his life. Reports are that he took one look at Paul’s sister, Margherita, and “that was it. She met his eyes and he knew she was the woman of his dreams,” according to Camille Passarella, the couple’s eldest daughter, who heard the story from family members, including her aunt, Catherine Sullivan, Margherita’s younger sister.

Aversano graduated from the School of Pharmacy and the couple married a year later, spending the early years of their marriage running their pharmacy on Niagara Street in Buffalo. Their marriage united two families that each boast several UB graduates.

On the Strozzi side of the equation, the first was Margherita’s father, Frank Strozzi, a 1904 pharmacy school graduate, who opened his own pharmacy on Busti Avenue in Buffalo.

“My grandfather came to Buffalo from Italy when he was 10 years old, knowing no English,” Passarella said. “That was in 1891. We have wonderful memories of his drugstore. People came in for medical advice. He always wore a white lab coat and was always meticulous. He used a mortar and pestle, and worked at a high marble counter in the back room, mixing the prescriptions and filling the capsules.”

Frank’s brother Fred, who became a doctor, helped put their brother Michael through UB pharmacy school; Michael graduated in 1912, then opened a drugstore on Niagara Street, a few miles from where his niece and her husband would set up shop more than two decades later.

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Frank Strozzi established the Aversano-Strozzi Scholarship at UB in 1980 to honor Margherita and her family following her death from cancer at age 52. He designated that it be given to pharmacy students with financial need.

While her father didn’t talk about the fund, she and her siblings knew that “it was definitely his love for the University of Buffalo as well as for his profession that helped him decide on this way to honor my mother’s memory,” Passarella said.

This year’s recipients are Jaclyn Kotula and Jinhee Park, both PharmD candidates. Kotula, who became interested in becoming a pharmacist when she was in 8th grade, said the scholarship offers her a precious resource: more time.

“It has given me an opportunity to focus on my studies as opposed to working increased hours outside of school,” Kotula said. “I am so grateful to be a recipient of such a generous gift.”

Kotula became interested in pharmacy in high school. “My dad was admitted to a local hospital with a pulmonary embolism. I got to see the pharmacy working with his doctors to adjust his medications and monitor INR changes. I learned how critical pharmacists are to patient care and good patient outcomes. I knew this was a field which would allow me to make a difference.”

On track to graduate in 2015, Kotula will work to secure a spot in the residency program at the University of North Carolina Chapel Hill. “Afterwards I would like to pursue a career as a clinical or consultant pharmacist in a health systems setting,” she said.

Second-year student Jinhee Park earned a bachelor’s degree in English literature and chemistry, and spent a year on a Fulbright grant teaching English to South Korean inner-city middle-school students, before deciding to pursue a career in pharmacy.

Park, who would like to work as a clinical pharmacist and possibly teach someday, said she was “sincerely grateful” for the Aversano-Strozzi scholarship. She also was thankful for the recent chance to travel with her UB professors on a medical mission trip to San Pedro, Dominican Republic.

“There, I applied so many things that schools try to teach in the classroom, such as patient care, triage, counseling in an entirely different language, pediatric dosing and compounding suspensions – all within a matter of one week,” she said. “The amount that I learned far exceeds the cost of the trip.”
UB education helped couple fulfill their American dream

David C.K. Chu, PhD ’75, said he and his wife, Jane Jee-Young Chu ’75, would not have “fulfilled the American dream” without the education they received at the UB School of Pharmacy and Pharmaceutical Sciences.

“Jane and I came to the United States in 1970 and 1968, respectively, as graduate students, and after 40 years of working here, we fulfilled the American Dream,” David Chu said. “Although we worked extraordinarily hard during this period, the major reason that we accomplished our dream is credited to our higher education.”

While attending UB, the couple worked as graduate assistants in medicinal chemistry under the direction of several professors, including Leo Fedor and the late Thomas Bardos.

“Without these supports, we would not have completed our education,” David Chu said. “We are deeply appreciative of the University at Buffalo and our major advisors.”

Jane Chu earned two master’s degrees from UB, one in pharmacy and the other in chemistry. David Chu earned his doctoral degree, and completed postdoctoral work at Memorial Sloan-Kettering Institute for Cancer Research in New York.

The couple spent their careers at the University of Georgia, Athens, where David was Distinguished Research Professor of Pharmaceutical and Biomedical Sciences, and Jane worked as a systems designer in the Library Automation division at the University of Georgia Libraries. But they never forgot the start they received from UB and the critical role their education played in their professional success.

Upon retiring, the Chus, along with their physician daughters, Susan and Jaclyn, created the Chu Family Foundation through which they support annual scholarships for five UB pharmacy students.

Susan Chen, one of this year’s recipients, is grateful for the scholarship because it allows her to “wholeheartedly concentrate on my studies” and more.

“In addition to focusing on academics, the Chu scholarship has motivated me to become a dean’s student ambassador and give back to the community by aiding any prospective students interested in UB Pharmacy,” she said.

Ryan Dillon, another recipient who hopes to practice as a clinical co-ordinator in a critical care setting, said the scholarship allows him to concentrate on “how I can personally contribute to every patient I come in contact with.”

Dillon is working on a community initiative to educate first responders in the national Vials of Life program, which “helps our elderly patients keep updated medication histories in their homes that would facilitate getting this medication history to health professionals in emergency situations.”

For recipient Kayla Maxwell, a dual-degree student in the PharmD and PhD program, the scholarship is particularly helpful because she “will be in school much longer than the average pharmacy student.” Maxwell is conducting research on finding optimal therapy for breast cancer, which her two grandmothers, aunts and mother have battled.

Nicholas Hopwood, another recipient in the PharmD program who hopes to be a supervisor pharmacist after graduation, said the scholarship freed him from “focusing on working, and passing up valuable opportunities,” such as being selected to be on the four-person business plan team this year to represent UB, which is giving him “professional hands-on experience in how to start up an independent pharmacy,” his long-term career goal.

The fifth recipient, Emily Chan, would like to work after graduation in an HIV/AIDS ambulatory clinic. She is “immensely grateful” for the scholarship, which has helped her with academic expenses and other final-year costs, such as board exam fees.

In addition to the scholarships, the Chus also established the annual David Chu Lectureship to invite experts in drug discovery or biomedical research to speak at UB. The lectureship and scholarships reflect the Chu family’s belief in the power of education to transform the world.

“We struggled occasionally as graduate students in Buffalo; however, one thing is clear: we had an excellent graduate education which was the basis for our success and accomplishments in later life,” David Chu said. “We believe that education is the most important investment we can make in young people.”
Thank you to our core group of alumni who helped plan and guide our multi-day 125th Anniversary Celebration: Vitauts Alks ’74, Gayle Brazeau ’89, Karl Fiebelkorn ’78, Renee Rizzo Fleming ’83, Carol Gloff ’75, Rosemary Crimaldi Madejksi ’59, Robert Miller ’59, Marilyn Morris ’84, Betsy Grabowski Murphy ’72, Mark Rosenfeld ’61, Rachel Spire Smith ’84 and Thomas Smith ’84. Your ideas and guidance help create wonderful experiences and programs for all who attended.

Our 125th Anniversary also included special recognition for the classes of 1951, 1956, 1961, 1986 and 2001. Members of these classes were recognized during our Gala Dinner at the Buffalo Club. We thank all our alumni for their attendance and support of our anniversary activities.

Another great group of alumni and friends assisted the school in organizing our collection of artifacts and antiquities for our move to Kapoor Hall. Thanks goes to Bruce Moden ’57 and his family, Rose Mary Madejksi ’59, Phyllis Slattery (wife of John Slattery ’51) and Louise Cooper ’73 for their knowledge and care in creating new homes for our display pieces in Kapoor Hall.

Each year, the Alumni Association bestows two awards, the Willis G. Gregory Memorial Award and the Orville C. Baxter Memorial Professional Practice Award. The Gregory Award, the association’s premier award, bears the name of our 4th Dean and is given to an outstanding alumni pharmacist who personifies the ideals of service, integrity and is a consummate pharmacy professional. The Baxter Award bears the name of a long standing faculty member, and is given to an outstanding alumni pharmacist who demonstrates high ideals of professionalism and genuine care for patients. We were proud to recognize Robert Miller ’59 as our 2012 Willis G. Gregory Memorial Award recipient and Bharati Bhardwaja ’01 as our 2012 Orville C. Baxter Memorial Professional Practice Award recipient. Robert and Bharati were recognized for their meritorious contributions to the field of pharmacy at the school’s 2012 Awards Ceremony.

New Orleans was the site of our 2011 alumni and school reception at the American Society of Health Systems Pharmacists mid-year meeting, with over 100 alumni and guests in attendance. We remind all alumni 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. The association organized a Farewell Celebration reception for the PharmD Graduates of the Class of 2012 at Banchetti’s Restaurant, where Professor Fiebelkorn gave comments as well as Class President, Matt Schnupp. The reception was well attended and a great success! Also in 2012, the association gave six $500 ‘grants-in-aid’ awards to needy PharmD students as well as recognized Maria Landicho ’12 during Commencement for her 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.
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.
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), Fred Doloresco, Karl Fiebelkorn, Cindy Konovitz, (ex official), William Prescott and Josh Sawyer
Support: Cynthia Acara, Christine Stumm and Mark Sauberan

Assessment Committee
Fred Doloresco (Chair), Jack Brown, Mei Jen Ho, Wojciech Krzyzanski, Mark Sauberan, Aiming Yu

Curriculum Committee
Patty Havard (Chair), Nicole Albanese (co-chair), Karl Fiebelkorn (ex officio), Peter Brody, Patricia Burch, Deborah Chiarrella, Fred Doloresco, Ho Leung Fung, Donald Mager, Jun Qu, Erin Slazak, Robert Wahler, Mark Wrobel, Jun Qu, Mary Wurm-Schaar, Joseph Sperber (P1), Julie Graham (P2), Heather Rodman (P3), Matthew Schnupp (P4)

Executive Committee
Wayne Anderson (Chair), Joseph Balthasar, Edward Bednarczyk, Kathleen Boje, Rebecca Brierley, Peter Brody, Karl Fiebelkorn, Diane Fisher, Patty Havard, Jennifer Hess, William Jusko, Cindy Konovitz, Candise Morris, Gene Morse, Mary Wurm-Schaar, Leigh Yates

Safety Committee
Alfred Reiman (Chair), Vicki Rink, David Soda, Leona Zak

Student Academic Affairs Committee
Karl Fiebelkorn (Chair), Joseph Balthasar, Kathleen Boje, Nicole Paolini, William Prescott

Tenure and Promotion
Wayne Anderson (ex officio), William Jusko (Co-Chair), Gene Morse (Co-Chair), Marilyn Morris, Robert Straubinger, Kathleen Tomatore

National Industrial Advisory Council

Wayne Anderson
Dean
UB School of Pharmacy and Pharmaceutical Sciences

Allen Barnett, ’65
President Emeritus
Kinex Pharmaceuticals, LLC

James Baxter, ’84, ’90
Senior Vice President, Development
Boehringer Ingelheim Pharmaceuticals, Inc.

Lisa Benincosa, ’93
Vice President and Global Head, Drug Metabolism and Pharmacokinetics
Hoffmann-LaRoche, Inc.

James Daly, ’84, ’85
Executive Vice President, Chief Commercial Officer
Incyte Corporation

Karl Donn, ’79
Vice President, Drug Development Parion Sciences

James Ermer, ’83
Senior Director, Clinical Pharmacology & Pharmacokinetics
Shire Pharmaceuticals

Ronald Evans, ’69
President
MAPS 4 Biotec, Inc.

Steven Hansel, ’93
Senior Director
Pfizer, Inc.

George Lasezkay, ’74, ’78
Retired, Corporate Vice President
Allergan Pharmaceuticals, Inc.

Margaret McGlynn, ’82
President and CEO
International AIDS Vaccine Initiative

Edward McNiff, ’75, ’76, ’83
President
EFM Consulting, LLC

Richard Morrison, ’77, ’83
Executive Director
Merck Research Laboratories

David Panasci
President
DHP Consulting LLC

Mario Rocci, Jr., ’76, ’81
President, IDS Division
ICON Development Solutions

John Rodgers, ’83
Executive VP and Chief Operating Officer
Independent Health Association, Inc.

Daniel Salazar, ’89
Senior Vice President
Otsuka Pharmaceutical Development & Corporation

Michael Taylor, ’81
President and CEO
Ensemble Discovery Corporation

Avi Yacobi, ’75
President
DOLE Pharma, LLC
Office of External Affairs
University at Buffalo
160 Kapoor Hall
Buffalo, NY 14214-8033

2013 GALA

- Recognition of Dean Wayne Anderson

We hope you will attend and help celebrate our upcoming reunions and the nearly 20 years of leadership Dean Wayne K. Anderson has brought to our school, the university and the profession of pharmacy.

Thursday, September 26
- Gerhard Levy Distinguished Lectureship in the Pharmaceutical Sciences and dinner banquet
- Pharmacy Continuing Education Program

Friday, September 27
- Participate in classes, lectures and labs with our pharmacy students, as well as tours of John and Editha Kapoor Hall; meet with alumni colleagues
- Gala Dinner Dance: Reunion recognitions and tributes to Dean Anderson

Saturday, September 28
- University at Buffalo Football Game: UB vs. UConn

Registration will begin July 2013.
Questions:
Office of External Affairs: phm-alumni@buffalo.edu or 716-645-3340