







school of pharmacy and pharmaceutical sciences $C\ O\ M\ M\ E\ N\ C\ E\ M\ E\ N\ T$

Virtual Ceremony Saturday May 16, 2020 Five O'Clock

Program

Opening Declaration

Robert S. Miletich, MD Mace Bearer Chair Elect of the Faculty Senate and Professor of Nuclear Medicine and Neurology

Welcome

A. Scott Weber, PhD Provost and Executive Vice President for Academic Affairs

Greetings

Satish K. Tripathi, PhD University President

Remarks

James M. O'Donnell, PhD Dean School of Pharmacy & Pharmaceutical Sciences

Recommending Candidates for Degrees

James M. O'Donnell, PhD Dean School of Pharmacy & Pharmaceutical Sciences

Conferring Degrees

Satish K. Tripathi, PhD University President

Remarks Guest Speaker

Mark J. Sinnett, PharmD Director, Clinical and Educational Services, Montefiore Medical Center

Remarks

Marissa Guszkowski President, PharmD Class of 2020

Alma Mater

Closing Declaration

Robert S. Miletich, MD Mace Bearer Chair Elect of the Faculty Senate and Professor of Nuclear Medicine and Neurology

SUNY Trustee and UB Officials

Eunice Ashman Lewin

Member of the State University of New York Board of Trustees



President and co-founder of Impacto Consulting Associates, Eunice Ashman Lewin was appointed to the SUNY Board of Trustees in February 2010. She was instrumental in reinstating the Student Life Committee, on which she serves as cochair. In that capacity, she

spearheaded the creation of both the Food Insecurity and the Mental Health task forces. Lewin serves on the board's Executive Committee and the committees for academic affairs, communications and external affairs, community colleges, and academic medical centers and hospitals.

A former commissioner of the Niagara Frontier Transportation Authority, Lewin was a founding member of the Roswell Park Alliance and a board member of both the Buffalo Urban League and Hispanics United of Buffalo. She is also a member of the Hispanic Women's League and the Greater Buffalo Racial Equity Roundtable.

Among Lewin's honors are the Distinguished Alumni Award from UB's Graduate School of Education, the Governor's Award for Excellence in Education, and the National Conference for Community and Justice of Western New York 50th Annual Citation Award. She is a member of the Western New York Women's Hall of Fame and was named a 2015 Citizen of the Year by The Buffalo News.

A retired bilingual social worker for the Buffalo Board of Education, she is a leader and champion for STEM education in the Buffalo Public Schools.

Born in Guantanamo, Cuba, Lewin immigrated to the United States with her family in 1967. She holds a bachelor's degree in sociology from Marymount Manhattan College and master's degrees in American and Puerto Rican studies, and in educational administration, from UB. Jeremy M. Jacobs Chairman of the University at Buffalo Council



Jeremy M. Jacobs was appointed to the UB Council in 1997; in 1998, Gov. George Pataki named him chairman. Jacobs is chairman of Delaware North, a global hospitality company with almost 55,000 employees

serving half a billion customers in the U.S., Canada, Asia, Australia, New Zealand and the U.K. The company's operations include food and retail at airports and sports venues, sports facility ownership and management, operations of parks and major tourist attractions, hotel ownership and management, gaming operations and the Patina Restaurant Group.

Jacobs owns the Boston Bruins and serves as chairman of the National Hockey League's Board of Governors. In 2018, he received the sport's highest honor when he was inducted into the Hockey Hall of Fame.

An alumnus of UB's School of Management and Harvard Business School's Advanced Management Program, Jacobs holds honorary doctorates in humane letters from UB, Canisius College, Niagara University and Johnson & Wales University. In 2015, his family donated \$30 million to advance UB's medical school, which was renamed the Jacobs School of Medicine and Biomedical Sciences.

Jacobs has served Western New York for more than four decades with his business expertise and philanthropic leadership, and Delaware North has received multiple awards for social responsibility, community service and environmental stewardship.

A longtime friend and supporter of UB, Jacobs has served as chairman, trustee and director of the UB Foundation, chairman of the President's Board of Visitors and adviser to the School of Management. Satish K. Tripathi University President



An internationally distinguished researcher and higher education leader, Satish K. Tripathi, PhD, is the University at Buffalo's 15th president.

Tripathi, who served as UB's provost from 2004– 2011, was dean of the

Bourns College of Engineering at the University of California-Riverside from 1997-2004. Previously, he spent 19 years as professor of computer science at the University of Maryland, including seven years as department chair.

Tripathi graduated at the top of his class from Banaras Hindu University (BHU). He holds a master's degree and a doctorate in computer science from the University of Toronto, as well as master's degrees in statistics from both the University of Alberta and BHU. A fellow of the IEEE and the American Association for the Advancement of Science, he was awarded honorary doctorates from the Indian Institute of Information Technology, Allahabad, and Brock University in Canada.

An active leader in the national higher education community, Tripathi is chair of the Mid-American Conference Council of Presidents and serves on the boards of the NCAA Division I, NCAA Board of Governors, College Football Playoff Board of Managers and Internet2. He has also served on the board of directors for the Association of American Universities, the Association of Public and Land-Grant Universities and the Council for Higher Education Accreditation. Appointed by Gov. Andrew Cuomo as an inaugural cochair of the Western New York Regional Economic Development Council in 2011, he served in that position until 2017.

A. Scott Weber

Provost and Executive Vice President for Academic Affairs



As provost and executive vice president for academic affairs, A. Scott Weber, PhD, serves as the university's chief academic officer, responsible for leading the development and implementation of the

university's academic vision. Weber provides leadership across the academic enterprise including research, scholarship and creative activities; undergraduate, graduate, professional and international education; faculty development; diversity and inclusion initiatives; and university libraries.

A member of UB's faculty since 1983, Weber is an innovative scholar and teacher and former chair of UB's Department of Civil, Structural and Environmental Engineering, where he helped establish UB's transportation engineering program and oversaw the department's significant rise in national rankings among U.S civil engineering programs. Weber has held progressively responsible administrative roles at UB, including senior vice provost and vice provost for academic affairs, where he was instrumental in the creation of the UB Curriculum and the nationally recognized Finish in 4 program; and vice president for student life, where he focused on enhancing the student experience on campus and promoting overall student wellness.

Weber's research focuses on biodegradation of chemicals in water and soil and the reclamation of environmentally impacted brownfield sites. He earned bachelor's and master's of science degrees in civil engineering from Virginia Polytechnical Institute and a PhD in civil engineering from the University of California, Davis.

Michael E. Cain

Vice President for Health Sciences Dean of the Jacobs School of Medicine and Biomedical Sciences



Michael E. Cain, MD, came to the University at Buffalo in 2006 from Washington University School of Medicine in St. Louis, where he was director of the Cardiovascular Division and Tobias and Hortense Lewin Professor of Medicine.

Cain is a graduate of Gettysburg College and received his medical degree from George Washington University School of Medicine and Health Sciences. He completed training in internal medicine and cardiology at Barnes-Jewish Hospital/Washington University School of Medicine. He was a clinical/research fellow in clinical cardiac electrophysiology at the University of Pennsylvania School of Medicine.

An internationally recognized physicianscientist, Cain specializes in cardiac electrophysiology, the examination of the heart's electrical system. He is a translational researcher, clinician and educator. His research, funded by the National Institutes of Health, has been directed at the electrophysiological determinants of ventricular tachycardia and fibrillation in the setting of healed myocardial infarction.

Cain is a fellow of the American College of Cardiology, the American Heart Association and the Heart Rhythm Society. He is a past president of the Association of Professors of Cardiology and the Heart Rhythm Society, and past chair of the board of directors of The Sarnoff Endowment for Cardiovascular Science.

He has received the Hans-Peter Krayenbuehl Memorial Award for Research in Cardiac Function from the International Academy of Cardiology, the American Heart Association's Arthur E. Strauss Award, the 2012 Resident/ Fellow Achievement Award from Washington University School of Medicine and the 2013 Leadership Buffalo Value Award for Inclusion.

James M. O'Donnell

Dean of the School of Pharmacy and Pharmaceutical Sciences



James M. O'Donnell, PhD, joined the university in 2013 as the 11th dean of the School of Pharmacy and Pharmaceutical Sciences. He is a professor of pharmaceutical sciences

with a joint appointment as professor of pharmacology and toxicology. He received his Bachelor of Science in psychology from Carnegie Mellon University and a doctorate in pharmacological and physiological sciences from the University of Chicago; he completed postdoctoral training in neuropsychopharmacology at the University of Pennsylvania.

His research has focused on the relationship between the neurochemical and behavioral effects of drugs used to treat neuropsychiatric illnesses. He has served on NIH review panels in the neuroscience and drug discovery areas and editorial boards for scientific journals. He is a fellow of the American Association for the Advancement of Science and the American College of

Neuropsychopharmacology and has chaired the Gordon Research Conference on Cyclic Nucleotide Phosphodiesterases.

O'Donnell has taught professional and graduate students in pharmacology and neuroscience and provided research mentorship to undergraduate, graduate and professional students, residents, postdoctoral fellows, and junior faculty members. He served as director of an NIH-supported T32 grant, providing predoctoral research training at the interface of behavioral and biomedical sciences.

Guest Speaker

Mark J. Sinnett

Director, Clinical and Educational Services, Montefiore Medical Center



Mark J. Sinnett, PharmD, FASHP, is Director of Clinical and Educational Services and former PGY1 Pharmacy Residency director for the Department of Pharmacy at Montefiore Medical Center, Bronx, New York.

Dr. Sinnett received both his BS and PharmD degrees from the University at Buffalo School of Pharmacy and Pharmaceutical Sciences, and then completed a residency at the Mary Imogene Bassett Hospital in Cooperstown, New York.

He holds adjunct faculty appointments at UB and the Long Island University Schools of Pharmacy. Sinnett is a member of the Eastern States Conference for Pharmacy Residents advisory board and past president of the New York State Council of Health-System Pharmacists. professional affiliations include the American Society of Health System Pharmacists (ASHP), where he was involved with the Council for Education and Workforce Development and the Commission on Credentialing and the Council on Therapeutics. He also participated in ASHP's Pharmacy Practice Model Initiative Summit and the Pharmacy Technician Stakeholder Consensus Conference.

Sinnett currently serves as director of the Pharmacy's Center for Pharmacotherapy Research and Quality and chair of the Institutional Review Board for the Biomedical Research Alliance of New York. He has published and presented widely on pharmacy leadership and the advancement and future of our exciting profession. He is an ASHP fellow, a 1999 ASHP Best Practices in Health-system Pharmacy Management awardee, and in 2014 was the recipient of the UB School of Pharmacy and Pharmaceutical Sciences Orville C. Baxter Memorial Professional Practice Award.

Program Descriptions

Bachelor of Science in Pharmaceutical Sciences

The Pharmaceutics Major Program is a rigorous four-year curriculum leading to a Bachelor of Science Degree in Pharmaceutical Sciences. Areas of interest in Pharmaceutics include: the Physical Chemistry of drug delivery systems; Biopharmaceutics, which encompasses the study of the relationship between drug tissue concentrations and drug effects on the body; Clinical Pharmacokinetics, or the application of pharmacokinetics to the safe and effective therapeutic management of individual patients; and Pharmaceutical Biotechnology, which is the application of genetic engineering and recombinant DNA techniques important for the development of pharmaceutical drugs.

Master of Science or Doctorate of Philosophy in Pharmaceutical Sciences

The MS and PhD programs offered by the Department of Pharmaceutical Sciences provide instruction and research training in drug discovery and experimental therapeutics, with interdisciplinary coursework and research in the Pharmaceutical Sciences at the molecular, biochemical, biological and clinical levels. These programs involve clinical as well as laboratory research including pharmacokinetics, pharmacodynamics, drug delivery, drug transport and metabolism, drug analysis and pharmacogenomics. Graduates of these programs find extensive career opportunities where they will be involved in the discovery and development of new drugs in the Pharmaceutical Industry and in academia, and in the evaluation of drug therapies in various government and private agencies.

Doctor of Pharmacy Program

The Doctor of Pharmacy program has a strong academic base, which is aimed at developing an in-depth understanding of the factors involved in making rational drug therapy decisions. The Advanced Pharmacy Practice Experiential program builds on this academic base, providing a wide range of exposure to various clinical pharmacy practice environments and medical subspecialty areas. Formal teaching opportunities and clinical research experiences are components of the program. Graduates of the Doctor of Pharmacy program practice in a wide variety of clinical pharmacy positions in university, hospital, community and industrial settings throughout the United States, Canada, Europe and Africa.

Candidates for Degrees

Subject to the completion of all degree requirements, degrees will be conferred as indicated upon those individuals listed herein who were identified by April 6, 2020, and upon such others as may meet the requirements of their respective degrees. Candidates are listed according to actual date of degree conferral (September 2019, February 2020 and June 2020).

Latin Honors

Subject to completion of all degree requirements and satisfaction of the following minimum criteria, Latin honors may be conferred as indicated upon the individuals listed herein and upon such others as may meet the requirements. To qualify for Latin honors, students must present a minimum of 60 credit hours of UB undergraduate coursework, at least 54 of which must be graded credits (i.e., not satisfactory or unsatisfactory [grades of 'S' or 'U']). The UB GPA must be a minimum of 3.2 (to 3.499) for cum laude, 3.5 (to 3.749) for magna cum laude and 3.75 (to 4.0) for summa cum laude.

To receive the Latin honors designation in the printed 2020 commencement programs, candidates for the June 2020 degree conferral date must qualify based upon their UB cumulative GPA through the Winter 2020 session and total number of UB credit hours projected through the Spring 2020 semester. Standings for Latin honors MAY change once final grades are posted or degrees conferred.

Legend

Cum laude is denoted by an asterisk (*) Magna cum laude is denoted by two asterisks (**) Summa cum laude is denoted by three asterisks (***)

Baccalaureate Degrees

Recommending Candidates for Degrees James M. O'Donnell, PhD Dean School of Pharmacy and Pharmaceutical Sciences

Conferring Degrees Satish Tripathi, PhD University President

Bachelor of Science in Pharmaceutical Sciences

June 2020 Shivani Avasthi* Junlang Cai Nick Cheung** Dennis Huang Anthony Jerez Maureen Wang Kyle Wieczorek Yuhan Zhao Taylor Poltorak

Masters Degrees

Recommending Candidates for Degrees James M. O'Donnell, PhD Dean School of Pharmacy and Pharmaceutical Sciences

Conferring Degrees Satish Tripathi, PhD University President

Master of Science in Pharmaceutical Sciences

February 2020

Farah Jamal AlQaraghuli Thesis Title: Quantification of T cell Redistribution in Syngeneic Tumor Bearing C57BL/6 Mice following Anti-CTLA-4, Anti-PD1, and Anti-OX40 Antibody Treatment Advisor: Dhaval Shah, PhD

Vincent Chak Thesis Title: Oral Reverse Vaccination Using LysoPS Nanoparticles Containing Insulin for Late Revention/Early Reversal of Type 1 Diabete in NOD Mice Advisor: Sathy Balu-Iyer, PhD

Hsuan-Ping Chang Thesis Title: Whole-body Pharmaceokinetic of Antibosy in Mice Determined Using Enzyme-linked Immunesorbent Assay Advisor: Dhaval Shah, PhD

Ping Chen Development and Evaulation of Anti-Calicheamicin Antibodies, Antibody Fragments, and Peptides Advisor: Joseph Balthasar, PhD

Aditi Dixit Thesis Title: Lyso-PS Nanoparticles to Reverse Immunogenicity towards AAV8 Vectors in Gene Therapy Advisor: Sathy Balu-Iyer, PhD Utkarsha Ranade Thesis Title: Development of a Tolerogenic Nanoparticle Formulation Containing Adalimumab for Oral Delivery Advisor: Sathy Balu-Iyer, PhD

Shengjia Wu Thesis Title: Development of Anti-LRP1 Antibody/Peptide Drug Conjugates to Treat Glioblastoma Advisor: Dhaval Shah, PhD

WanYing Zhang Thesis Title: Absolute Quantification of T cell Resdistribution following I-O Therapy: Anti-GITR Mab and CEA/CD3 BiTE Advisor: Dhaval Shah, PhD

Victor Zheng Thesis Title: Assessment of Phosphodiesterase-4D as a Novel Therapeutic Target in Treatment of Cognitive Deficits via Anti-Apoptotic Mechanisms Advisor: Ying Xu, PhD

June 2019

Kenneth Anderson Thesis Title: Characterization of OATP1B3 Inhibition by Tyrosine Kinase Inhibitors Advisor: Jason Sprowl, PhD

Amanda Arletha Vera Rhodes Bast Factors Associated with the Brain Disconnectome in Multiple Sclerosis Patients Advisor: Murali Ramanathan, PhD

Brandon Bumbaca Thesis Title: Single Cell QSP Modeling for the Treatment of Glioblastoma with Temozolomide Advisor: James Gallo, PhD Yingyi Li Thesis Title: Understanding PKPD of Different Sizes Antibody Fragment Drug Conjugates Advisor: Dhaval Shah, PhD

Nicole Nasta Thesis Title: Effects of Tyrosine Kinase Inhibitors on SGLT 2 Function Advisor: Jason Sprowl, PhD

Jie Pu Thesis Title: Towards Accurate and Reliable Analysis of Antibody Biotherapeutics and Targets in Tissues Advisor: Jun Qu, PhD

Pooja Rajadhyaksha Thesis Title: Development of Sustained Release, Thermosensitive Formulations for the Subcutaneous Delivery of Protein Therapeutics Advisor: Dhaval Shah, PhD

Dominique Weeks Thesis Title: Induction of Tolerance towards the Coagulation Factor 9 in the Treatment of Hemophilia B Advisor: Sathy Balu-Iyer, PhD

Xiaoying Yu Thesis Title: Quantification of Whole Body Distribution of T-cells using Real-time PCR Advisor: Dhaval Shah, PhD

Sam Huangfu Zhang Thesis Title: Combination Effects of Bortezomib, Vorinostat, and Rituximab on Cell Cycle Kinetics of Diffuse Large B-Cell Lymphoma Cells Advisor: Donald Mager, PhD

Doctorate Degrees

Recommending Candidates for Degrees James M. O'Donnell, PhD Dean School of Pharmacy and Pharmaceutical Sciences

Conferring Degrees Satish Tripathi, PhD University President

Doctor of Pharmacy

February 2020 Cory Coleman**

June 2020

Katelyn Abbott** Solaman Adam Madeira Almeter* Aerin An* Leslie Aurelio* Nicole Becker** Tyler Bedard* Debbie Cao* Adam Cartenuto* Mason Chan* Tony Chang Ashlev Charles Kevin Chen* Hubert Constantin Chua*** Devon Coffey*** Allison Coughlin*** Fay Creathorn Brynna Crovetto** Krishna Daiya* Melissa Dhanraj*** Atul Dilawri*** Ben Do*** Nicholas Donofrio**

Vinson Eng*** Rachel Eye** **Raphew Fahm** Peter Feng*** William Feng** Gabriel Fiorella* Brenna Gallivan** Renae Gozelski** Miranda Graham* Marissa Guszkowski** Christopher Harvey** Mary Hejna** Jessica Hillery* loke Itabiyi* lennifer Kahi* Stephanie Krafft* Stephanie Lanza** Edward Lee** Monica Lee*** Lisa Li** Yanli Li Winnie Hui Yi Liang* liacheng Lin** Hannah Lu*** Rachael Luconte** Brianne Lutley* Tingting Ma** Anna Mak*** Athena Mak Courtney Mamone*** Omar Marzouk*** lessica Mason*** lessica Micceri*** Parul Mital** Frencina Monteiro* Julee Nanduri* Amanda Naraine* **Dustin Nemec***

Hannah Norton Renee Novotny* Alison Oddi*** Sylvia Ou*** Leon Owusu** Pauleena Pal* Nicholas Palisano*** Hetal Patel* Mayuriben Patel* Neel Patel** Vishal Patel leffrey Pawlak* Sarah Pawlak** Lea Perry** Zachary Petrovski* Matthew Poremba*** Bryan Quinn* Allyson Raditic* Ebne Rafi*** Frances (Danielle) Reed Travis Rolon* Alec Romanowski** Justin Roulley* **Richard Rovelli***** Gurjot Sandhu*** Eric Scott* Elaine Shao*** Shenaz Shenaz* Vladimir Shin* Mercede Siu** lakub Snopek** Rosemary Sovocool** **Gregory Statt*** Johanna Sulesky Skyler Sweeney Jessica Swiderek* Mamie Talty* Shani Thomas**

Emily Thurnherr*** Jingyin Tian** Adam Tong*** Angela Toscano John Trendowski** Ariel Walker* Elizabeth Wang* Daniel Wen* Bogiang Weng** Nicole Wilcox** Henry Wilson*** Amy Wnuk Victoria Wong* JohnArley Wyman** Fathimathuz Yasin Eunice Yawson* Kateryna Zarudna** Kory Zelen***

Research Projects

Hubert Chua Combining the Current Generation of Antibiotics with Zidovudine: Assessing it's utility as Salvage Therapy Advisor: Brian Tsuji, PharmD

Robert Parambi Serum Neurofilaments and Cholesterol to Predict New Lesions and Brain Matter Atrophy in Multiple Sclerosis Advisor: Murali Ramanathan, PhD

Ebne Rafi Enhanced Recovery After Bariatric Surgery: A Retrospective review on Opioid Free Discharge Advisor: Scott Monte, PharmD

Elaine Shao Pharmacy Students' Confidence and Ability Regarding De-Prescribing: A Cross Sectional Survey Advisor: Scott Monte, PharmD

Emily Thurnherr Project Title: Piperacillin/Tazobactam: More Nephrotoxic in Pediatric Patients than First Realized Advisor: Nicholas Fusco, PharmD

John Trendowski Erythropoiesis Stimulating Agent Dynamics in Kidney in Transplant Recipients Advisor: Calvin Meaney, PharmD

Henry Wilson Bictegravir in the Elderly Living with HIV: Impact of Polypharmacy and Multi-Morbidity Advisor: Qing Ma, PharmD, PhD

Kate Zarudna Optimizing Erythropoiesis-Stimulating Agent Dosing: Achieving Target Hemoglobin Safely and Efficiently Advisor: Calvin Meaney, PharmD

Kory Zelen The Impact of Abrupt Discontinuation of Chronic Aspirin on Stroke/TIA Events Advisor: Francis Gengo, PharmD

Doctor of Philosophy in Pharmaceutical Sciences

February 2020 Antari Khot Thesis Title: Investigating the Pharmacokinetics and Pharmacodynamics of Antibody Drug Conjugates, Bispecific Antibodies and T-cells Advisor: Dhaval Shah, PhD

June 2020

Brandon Bordeau Thesis Title: Pharmacokinectic Strategies to Enhance Tumor Penetration and Efficacy of Anti-Cancer Antibodies Advisor: Joseph Balthasar, PhD

David Bussing Thesis Title: Evaluation of Pharmacokinetics and Pharmacodynamics of Protein Therapeutics for Ocular Disorders in Mouse Eye Advisor: Dhaval Shah, PhD

Robert Dingman Thesis Title: Utilization of Lyso-Phosphatatidylserine Nanoparticles to Reduce Immunogenicity and Improve Clinical Utility of Acid Alpha-Glucosidase in the Treatment of Pompe Disease Advisor: Sathy Balu-Iyer, PhD

PharmD Advanced Pharmacy Practice Experience Program

The Pharm.D. Professional Experiential Program consists of required rotations in ambulatory, acute care, or long-term care settings. Each segment includes a comprehensive clinical experience in providing pharmaceutical care for patients with a variety of acute and chronic diseases focusing on patient education, medication counseling, drug interactions, review of medical literature, managed care and pharmacoeconomics.

PharmD Advanced Pharmacy Practice Experience Preceptors

Caitlin Aberle Renu Abraham Paul Adams Ryan Adler Arin Affonso **Troy Agard Elizabeth Aguilar** Nadia Ahmad Sana Ahmed **Bisi Aiyelabowo** Traci Aladeen Monica Alaigh **Nicole Albanese** Laura Alfieri Phil Altman **Brian Ames** Pi Amin Diana Aminov Wes Andersen **Russell Appleby Catherine Arapis** Deanna Argentieri Rafig Ashkar Nirvana Awad Nicole Avler Meghan Baldo Eric Balotin Danielle Banaszak Ienna Barnes **Jeffrey Baron** James Bartlett Stephanie Bass Bindhu Batra Adele Battaglia

Edward Bednarczyk Joel Begert Shreen Beshures Dimitra Bitikofer **Emily Bobak** lames Bobal Ruben Bonilla Guerrero Angela Borton Stefan Brand Kathleen Brauen Judy Bromley Alan Brown Andrea Brown Roy Browne Constance Browne Andrew Brueckner Carl Buchwald Michael Burns Kara Buynack Stacy Cairns Sarah Calnek Alesa Campbell Chelsea Carr Chris Castagna Craig Cendrowski Raymond Cha Jessica Chan **Charisse Chehovich** Victor Chen Roger Chen Angela Cheng Ailynn Cheung **Jacqueline** Chirico Sarah Christman Nicole Cieri-Hutcherson Collin Clark **Kevin Clary**

Christie Clauss Holly Coe Marigel Constantiner Lisa Cristofaro **Gregory** Cwikla Krystyna Dabek **Benjamin Daigler** Matthew Dailey Christopher Daly Melissa Danek William Darko Alyssa DeCastro Jay DeLisle Tammie Lee Demler Kalpesh Desai Erich Diehl Louis D'Introno Fred Doloresco Sarah Dombrowski Kathleen Doyle Randal Du Terry Dunn **Christine Echtenkamp** Mark Edgerly Aniana Elefante Miriam Ellison Stephanie Englert Lorie Eshima David Feldman Andrew Felter Nadia Ferguson-Myrthil Joseph Fery **Nick Firestine Richard Fischer** Antonette Flecha **Tonimarie Fleming** William Forkum

Holly Forrestel Aaron France Sarah Fratto Santana Maada Fulman Nicholas Fusco Norbert Futeran James Gaiser Chandra Sekhar Gajulapalli Sharon Ganatra Peter Ganio Lorne Gay Francis Gengo **Beth Genton** William Goral Pavel Goriacko **Jennifer Gozaloff** Katie Greenlee Matthew Grimm Yi Guo Krisztian Gyore Sean Hackett Kristin Hall **Basil Hamed Kevin Harbison** Mark Harmon Natalie Hathaway **Gregory Hauler** Anthony Heibel Maria Hernandez Rosa Angela Hoertz **Krystal Hoffman** Lisanne Holley Michael Hoying Susan Hughes Ted Hunt Carolyn Huntress

lesse Imes T. Wendell Ingram Sawsan Jabr Michael Jackson David Jacobs Vivek Jain Suzanne Janowitz Patricia Jaramillo Michelle Jensen Ryan Jones Shivang Joshi Diana Joyner Bonnie Judd Soo Jung Raj Kaneria Eric Kanouse Nishi Karamsadkar **Breanne Keating** Alexa Keller Iamie Keller Kenneth Kellick Brian Kersten Saira Khalique loe Khan Idil Kirimca Anthony Kitchen Kerri Klajbor Kavla Klein Grant Knickerbocker lamie Kobren Kat Kossykh-Burrows Kristin Krajewski Leonora Kravets Laura Kroon Cynthia Lackie Sarah LaFalce John Lagana

Thomas Latuga Valerie Leaphart Claudia Lee Peter Lee Rose Lee Philip Lee **Craig Leivent Michelle Lewis** Ya Hui Liang Ryan Lindenau Robert Lipsy Chin Yee Lum Ky Ma Qing Ma Christopher Malabanan Gary Mantz Charles Chiedza Maponga John Marraffa leanna Marraffa Colleen Martin Todd Martino Beth McConnell Sarah McDouaall Calvin Meaney Kari Mergenhagen Sarah Milkovich Christopher Miller Kevin Mills Sonia Minca Amy Mitchell-Van Steele Scott Monte Melissa Morano Iennifer Morrow Abby Mouzakitis-Fazio Ernest Moy Kimberly Mulcahy-Burns Holly Murphy Megan Nadler Diana Nagrecha Alidah Nathoo

Joseph Navarra **Justin Neal** Ernie Ng Christina Ng **Daphney Nicolas** Anne Niemiec **Christopher Nightingale** Daryl Nnani Sheila Novak Kevin Omerza Pamela Ong Michael Ott Chris Papazian Karen Park Saloni Patel Harini Patel Vishal Patel Ketan Patel Sujal Patel Bhumi Patel Kalpita Patel Marzena Pawlowska **James** Payne Bangarraju Penumetsa **Christina** Phelan Beth Ann Pienta Frank Pietrantoni Kelly Pillinger Rebecca Pincelli David Popa Debra Porter Whitney Porto Ulyana Povroznik Gina Prescott Eugene Przespolewski Andrew Pulka Nicholas Quinn Safinaz Rahman Michelle Rainka Tim Rakiec **Ronald Rambally**

Dana Ranallo Sarah Reidy Irene Reilly Alfred Reiman lared Reles Larissa Rezhets Valerie Riggs Sally Robinson Lori Rose Shannon Rotolo **Boris Royzen** Andrea Rubino Ellen Rudnick Christine Ruh Joseph Rutowski Salvatore Sack Nidhi Saraiva Chris Sauls Joshua Sawyer Kathryn Sawyer Joshua Schrader Michael Schuh Stephanie Seyse Rizwan Shah Dhara Shah **Dushyant Shah** Mark Shen David Shubert Harshal Shukla Eric Sidman Joseph Sidney **Brian Simpkins** Mark Sinnett **Craig Skinner** Erin Slazak Kelly Smith Rose Soulos **Bruce Stalder** Thomas Steele Ken Sternfeld Christine Stork

Lauren Stuczynski **Michele Sturtz** Thomas Suchy Brian Sultana Sonny Surapaneni **Richard Sweeney Dmitry Talesnik** Michael Tao Pam Tarlow Vani Thiyagarajan Alexandra Thomas **Michael Thomas** Kathleen Tornatore Katie Triesel Henry Trumbo Devon Trumbower Kwok Fai Tsana Brian Tsuji **Ryann Tuthill** Alyssa Tutino Cory Ulisse **Jeffrey Van Liew** Brendan Van Slyke lineane Venci **Timothy Vink** Lisa Voigt Laura Volz Justin Waclawek **Robert Wahler** Marissa Walsh Mark Walsh Johnny Wang Francine Weber Danielle Webster Chris Wheeler **Jagueline** Willis Amy Wojciechowski Chung Wong Ashley Woodruff Cori Wyman Vicken Yaghdjian

Regina Yakubova Yujin Yang Darlene Yang Ephiram Yeataihe Alfred Yeung Tara Yunker Megan Zach Sanjay Zachariah Olivia Zalewski Kimberly Zammit Elizabeth Zeleznikar Fengyee Zhou Farrukh Zubair

Awards

A.B. Lemon Memorial Award

Presented to a graduate who exemplifies the high ideals of scholarship and dedication to the profession of pharmacy, which were held by Dr. A. Bertram Lemon, former Dean, UB School of Pharmacy and Pharmaceutical Sciences.

Devon Coffey

ASP Senior Recognition Award

Presented to the President of the American Pharmaceutical Association Academy of Student Pharmacists **Stephanie Lanza**

Copel and Max Rubenstein Award in Pharmacy

Presented to the graduate with the highest standard of ethics, integrity and humanitarianism.

Devon Coffey

Daniel H. Murray Memorial Award

Established by Thomas Bardos, PhD, in memory of Dean Murray, to recognize a student engaged in an innovative research project, demonstrates extraordinary scholarly work, maintains a high level of academic success.

Mary Hejna

Dr. David E. Guttman Award

Presented to a graduate who has demonstrated a high degree of interest and achievement in pharmaceutical analysis and physical pharmacy, in memory of Dr. David E. Guttman, former Professor of Pharmaceutics.

Yao Heng Huang

Eino Nelson Award

Presented to a graduate who demonstrated outstanding work in Biopharmaceutics.

Atul Dilawri

Excellence in Pharmacogenomics Award

Presented to graduate who has demonstrated high academic achievement and outstanding work in Pharmacogenomics. **Nicole Wilcox**

Facts and Comparisons Award of Excellence in Clinical Communication

Presented to a graduate who has demonstrated high scholastic achievement, and superior verbal and written clinical communication skills.

Ebne Rafi

Francis Taylor Award

Established in the memory of Francis P. Taylor, a 1934 graduate of the UB School of Pharmacy and former Pharmacy Instructor, for presentation to the outstanding member of the graduating class in the professional practice sequence.

Allison Coughlin

Inpatient Advanced Pharmacy Practice Experience Award

Presented to the pharmacy graduate for outstanding performance in the inpatient components of the Advanced Pharmacy Practice Experience Program.

Miranda Graham

Katherine Doyle Memorial Award for Excellence in Palliative Care

Presented to a graduate who exemplifies the commitment for compassionate care towards patients with life limiting conditions but treatable symptoms as personified by Dr. Katie Doyle, 2006 PharmD Graduate, who as a student, resident and practicing pharmacist, worked to relieve both physical and emotional pain and suffering from patients in her care.

Mary Hejna

Lilly Achievement Award

Presented by Eli Lilly and Company to a graduate demonstrat superior scholastic achievement in the professional curriculum, as well as leadership and professional qualities.

Hannah Lu

Lori Esch Memorial Award

Presented to a graduate demonstrating achievement in ambulatory pharmacotherapy management, empahasizing patient counseling and education and exemplifying commitment to medication safety and beneficial outcomes personified by Dr. Lori Esch, a former Assistant Professor and HIV Pharmaceutical Care Specialist in the School of Pharmacy and Pharmaceutical Sciences.

Frencina Monteiro

Margaret C. Swisher Memorial Award

Awarded in memory of Margaret C. Swisher, PhD by Dr. and Mrs. Alexander Slepian, for presentation to an outstanding pharmacy student in the field of Chemistry.

Melissa Dhanraj

McKesson Leadership Award

Presented to a graduate who has best served the University at Buffalo chapter of the Academy of Students of Pharmacy. Johanna Sulesky

Merck Manual Award for Academic Excellence

Presented to the three top members of the graduating class in recognition of high scholastic achievement.

Omar Marzouk, Richard Rovelli, Atul Dilawri

Michael E. Crawford Award

Presented to a graduate who exemplifies a spirit of perseverance and is given in memory of Michael E. Crawford, a 1979 graduate of the School of Pharmacy and Pharmaceutical Sciences.

Mary Hejna

Mylan Excellence in Pharmacy Award

Presented to a graduate in recognition of high academic achievement and professional motivation in a tangible and professionally meaningful manner. Anna Mak

NCPA Outstanding Student Award

Presented to a graduate in recognition of their entrepreneurial spirit and commitment to advancing independent community pharmacy practice.

Henry Wilson

Outpatient Advanced Pharmacy Practice Experience Award

Presented to a graduate for outstanding performance in the outpatient care component of the Advanced Pharmacy Practice Experience Program.

Allison Coughlin

Outstanding Graduating Senior Award in Pharmaceutical Sciences

Presented to the most outstanding BS graduate based on overall performance, including GPA and leadership. Yao Heng Huang

PAWNY Student Leadership Award

Presented to a graduate who has shown leadership in professional organization activities and has maintained a good scholastic standing. Stephanie Krafft

PSSNY Award

Presented to a gradaute who has shown interest in, and has taken part in, pharmaceutical organization activities. Alison Oddi

Awards

Renee A. Diederich Award

Presented to a graduate pursuing post-graduate training, and is given in memory of Renee A. Dederich, a 1977 graduate of the School of Pharmacy and Pharmaceutical Sciences, who received her PharmD Degree, posthumously in 1979.

Rachael Luconte

Renee A. Diederich Award

Presented to a graduate pursuing post-graduate training, and is given in memory of Renee A. Dederich, a 1977 graduate of the School of Pharmacy and Pharmaceutical Sciences, who received her PharmD Degree, posthumously in 1979.

Marissa Guszkowski

Robert M. Cooper Memorial Award

Presented to a graduate who exemplifies the qualities of ethics, integrity, and commitment personified by Robert M. Cooper, former professor and Associate Dean of the School of Pharmacy and Pharmaceutical Sciences.

Jessica Micceri

Robert H. Gumtow Undergraduate Research Award in Pharmaceutical Sciences

Presented to a graduating BS student who has performed the most outstanding research.

Nicholas Cheung

Robert H. Ritz Award

Established by Robert H. Ritz, a 1919 graduate of the UB School of Pharmacy and Pharmaceutical Sciences, for presentation to a graduate who attained the highest standing in Biochemical Pharmacology.

Richard Rovelli

Roger Mantsavinos Award

Presented to a graduate who demonstrated outstanding work in Pharmacology (PMY 511 & 512), in memory of Dr. Roger Mantsavinos, former Associate Professor of Biochemical Pharmacology.

Ben Do

Roy M. Barr Award

Established by Roy M. Barr, a 1914 graduate of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences, for presentation to graduates who have demonstrated outstanding work in Medicinal Chemistry.

Richard Rovelli

Roy M. Barr Award

Established by Roy M. Barr, a 1914 graduate of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences, for presentation to graduates who have demonstrated outstanding work in Medicinal Chemistry.

William Feng

Samuel J. Bauda Award

Awarded in memory of Samuel J. Bauda, a 1923 graduate of the School of Pharmacy and Pharmaceutical Sciences. The presentation is to a graduate who exemplifies the qualities of leadership and dedication to community health care, desirable in a community pharmacy practitioner.

Rachel Eye

UB SPPS Professionalism Award

Presented to a gradute who exhibits the high ideals of professionalism and excellence in patient care. Iessica Mason

Western New York Society of Health System Pharmacists Award

Presented to a graduate having a record of high academic achievement and an interest in institutional practice. Nicholas Palisano

UB Alma Mater

Music by Walter S. Goodale, MD, 1903. Lyrics adapted by UB students in 2006 for contemporary use.

Verse 1:

The pride of our spirit and tradition, Our alma mater's truth and name declare. Celebrate our history and wisdom, O let us all prepare to sing her glory.

Refrain:

To Buffalo all hail to thee, Noble and strong it's our university! To blue and white pledge loyalty, Singing, I will always remember thee!

Verse 2:

We'll ever keep our standards high, And sing UB's praises to the sky. Receiving the finest education, Our knowledge we impart unto the nations. (Repeat refrain)

Verse 3:

Our friends we've made with ties that bind, A union of our spirit, heart, and mind. Together we'll continue life's journey, O may dear Buffalo forever be. (*Repeat refrain*)

The Mace

Designed to tell the story of the university and the Niagara Frontier, the University at Buffalo mace was fashioned by silversmith Hudson Roysher of Arcadia, Calif. It was used for the first time in the 1962 general commencement.

The mace is silver with accents of lapis and howlite to represent the university's colors. It is topped by a miniature walled structure representing the city of Buffalo. Engraved atop the city are three arrows bound together, symbolizing the unity of UB and the city.

A band of alternating jewels of lapis and howlite encircles the head of the mace and bears the founding dates of the 13 divisions that composed the university in 1962.

The UB arms appear on the front of the head. On the back are the arms of the United States, encircled by the name Millard Fillmore and the dates during which he was U.S. president and UB chancellor.

The discovery of Lake Erie in 1669 by Louis Joliet and early explorations by Robert de LaSalle are symbolized on the left side of the head. A crest on the right side symbolizes the university's role as a dynamic center of human growth and welfare.

The wild rose, the New York state flower, is depicted in a floral motif at the top and bottom of the mace's head. Encircling the ends of the shaft are three wavy lines representing intellect and water, the latter a reference to the Niagara River and Great Lakes.

The motto "University and City: Community" is lettered in Latin around the knob of the shaft.

Traditionally used in university ceremonies, the mace is a symbol of enlightened authority. The mace bearer is the chair of the university's Faculty Senate.



Alumni Letter

Dear Member of the Class of 2020,

Congratulations! On behalf of the UB Alumni Association, I'm delighted to welcome you to your global network of more than 275,000 alumni.

What does this mean for you in practical terms? It means that career help, volunteer opportunities, and engaging educational and social events are all yours for the taking. What's more, the Young Alumni Program has been designed especially with your interests in mind. To learn more about what's available with your alumni status, visit buffalo.edu/alumni.

As you begin your next chapter, please stay in touch! We have so many ways for you to remain connected—to UB and to each other—through email and social media, as well as through alumni events and volunteer opportunities happening across the country and around the world.

Remember, this isn't goodbye—it's WELCOME to the UB alumni family. We know you'll always be True Blue and will proudly keep your Horns Up, wherever you go and whatever you do. Contact the Office of Alumni Engagement anytime at 716-645-3312, ub-alumni@buffalo.edu, or find us online at buffalo.edu/alumni.

Go Bulls!

Care truzdo

Gary J. Jastrzab, BA '76 President, UB Alumni Association

P.S. Keep your @buffalo email for life simply by logging in through a browser every 90 days.

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ON THE COVER

The modern seal for the University at Buffalo harks back to a design adopted in 1923 to reflect the evolution of the university from separate schools into a more close-knit organization. Though the seal has been revised several times over the decades, the foundational elements remain: a proud bison signifying the City of Buffalo atop a shield supported by the palm leaves of victory and emblazoned with the flames of wisdom.